

# SOMMER CABLE

BULK CABLE | CONNECTORS V7.4



# AUDIO



# VIDEO



# DATA AQUA POWER



Simply good vibes.



power 3G1.5mm<sup>2</sup> + DMX512 2x0.14mm<sup>2</sup> (AWG26) • by SOMMER CABLE Germany



CAT. 8 [OFC] 2000MHz S/FTP 4PR (AWG22/1) by SOMMER CABLE Germany



conductor smoothing • 2x0.25 mm<sup>2</sup> (AWG24) • OFC • by SOMMER CABLE Germany



SOMMER CABLE Germany



SDI [OFC] • 1.6 / 70 (75 Ohm) • (AWG14) • by SOMMER CABLE Germany



mm<sup>2</sup> + 5x2.5mm<sup>2</sup> 700V • by SOMMER CABLE Germany • CE

Dear readers,

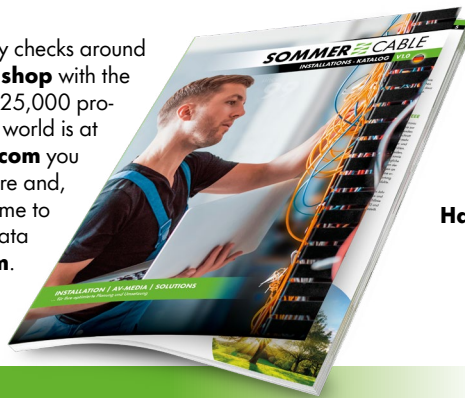
our update catalog **V7.4** with our current **range of bulkware and connectors** will introduce to you quite a few Sommer highlights in proven "**carefree quality**". The products marked with the **CPR logo** comply with the latest Construction Products Regulation **EU 305/2011** to ensure a safe planning and installation for your building projects and schemes.



A selection of currently available **CPR (Construction Products Regulation)** cables can be found on the following pages or at [www.sommecable.com](http://www.sommecable.com)

For building projects and schemes our **INSTALLATION CATALOG V1.0** is also a very good idea provider for planners and architects.

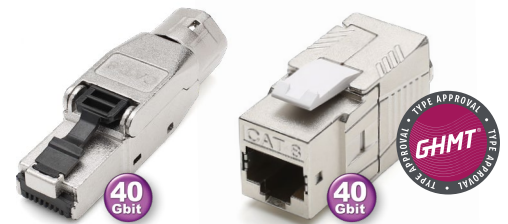
For an easy order handling or availability checks around the clock, our **B2B dealer online shop** with the complete Sommer range of more than 25,000 products around the cable and connectivity world is at your disposal. At [www.sommecable.com](http://www.sommecable.com) you can conveniently search, select, compare and, of course, buy online. You're welcome to request your personal B2B access data by e-mail to [info@sommecable.com](mailto:info@sommecable.com).



Here's a little foretaste of our product **highlights** which are each tagged by the **NEW button**:

- our "silverware" with a superb harmonics range: **SC-SILVER STAGE** and **SC-SILVER SPIRIT**
- the all-purpose construction pros: **SC-MERIDIAN CPR** and **SC-ELEPHANT CPR**
- the 12G video broadcast class: **SC-VECTOR PLUS 1.3/5.7**
- CAT.8 with 40 Gbit in B2ca: **SC-MERCATOR CAT.8.1**
- CAT.8 connectors 40 Gbit with GHMT certification **RJ45C8XL** and **RJ45CF8XL**
- **Comprehensive XLR range** in solid carefree quality up to our **High-End Pro+** version in a full-metal housing, with 6-chuck collet strain relief and gold-plated contacts and an additional strain relief for thin cables
- our **solder-free, quick-mount SCREW + PLAY** series with **RCA, jack, BNC** and many more
- robust, heavy-duty **micro & mini BNC connectors**

Happy reading and great discoveries!



RJ45 ONESIZE connectors **CAT.8.1** - Page 172, 173



**Ample XLR range** in different quality levels and price classes - Page 138 - 140



**SCREW + PLAY connectors for speaker cables for solder-free DIY assembly** - Page 149, 170, 154



**Micro/mini BNC plugs** robust & heavy-duty - Page 171

## Our highlights



Studio Microphone cable AES/EBU - **SC-SILVER STAGE** - Page 27



High-End Instrument / Audio cable **SC-SILVER SPIRIT** - Page 36



Speaker cable Installation **SC-MERIDIAN CPR** - Page 61

CPR



Speaker cable **SC-ELEPHANT ROBUST CPR** - Page 65

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CAT.8.1 Installation cable **SC-MERCATOR CAT.8.1 CPR** - Page 108

CPR



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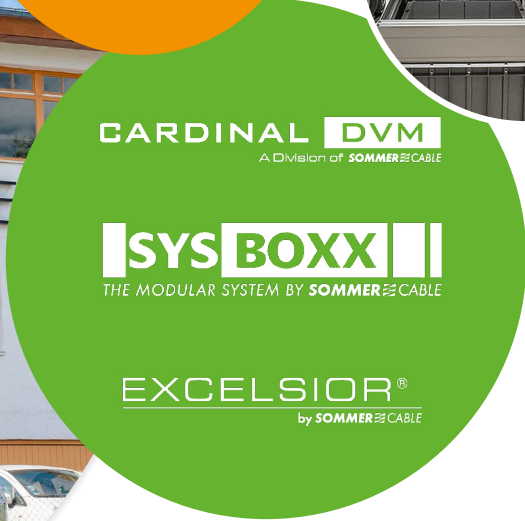
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## Musicians became cable experts ...

Back in 1999 we, Rainer Blanck and Friedhelm Sommer, founded the Sommer cable GmbH – together with some confidants being tinkers, thoroughbred musicians, sound people, electronic engineers and event specialists.

*We didn't feel as a start-up – although we were precisely this – driven by the question: how do we manage to design cables and connectors so that their sound quality thrills the users in every respect?*

So we became known for high-quality bulkware cables, developed for the most varied applications, standards and requirements and supplemented by matching connectors, connection cables, signal distribution systems or electronic components.

Today we are one of the leading cable manufacturers and offer a uniform, professional full assortment for the audio, video, multimedia, broadcast, and hi-fi sectors. Besides top-notch quality, great reliability and exceptional diversity, it is important to us to recognize trends early and develop future-proof solutions, maintain vibrant relationships and implement individual wishes.

*The foundation of our solutions competence lies in our attitude: the passion for what we do.*

It is found in every employee and thus in every facet of Sommer cable. How we do it? By forming a team together with our employees and our customers. We make the talents of our staff the talents of our company and the demands of our customers our own. This is exactly what makes the difference in the industry these days.

And this is precisely what sets us apart. With this personality, our close customer relationship and qualified consulting, Sommer cable fascinates customers from the entire pro-audio sector: architects and designers, studio, media and event technicians – and, of course, musicians. Simply everybody who shares our passion.

*We stand for connections that inspire. „Simply good vibes“ yeah!*

Sincerely, your



**Rainer Blanck**  
CEO von **SOMMER CABLE**



since

99



## Stage & Entertainment

### SOMMER CABLE for the *musician*

A musician appreciates our cables for several reasons: He knows that all **SOMMER CABLE's** are designed for **longevity**. We use a **dense stranding technique** and **smooth, pure copper (OFC)**, which guarantees **high bending cycles** and **loss-free transmission**. The use of our cables avoids unpleasant surprises during live gigs.

If you compare the price and performance of our cables with others you will immediately realize that they are very **reasonably priced** and provide great value.



## Studio & Broadcast

### SOMMER CABLE for *studio* and *broadcasting*

**SOMMER CABLE** is the **main supplier** for **nearly all of the top German broadcasting and TV stations** because they appreciate **SOMMER CABLE uncompromising quality** and our **extraordinary product range**.

**Our cable production is very fast and flexible**, which enables us to react to changes in the market very quickly.

All our cables are manufactured according to the latest **broadcast specifications** and have been tested in the **technical laboratories** of broadcast studios over long periods of time, and found to be of very high quality.



Simply good vibes.



## OEM

### SOMMER CABLE for the *OEM customer*

Third party manufacturers and OEM customers utilize labeled or neutral **SOMMER CABLEs** for their own products. This ensures that their cables maintain the same quality and meet the same strict specifications for years to come. Customers can count on them **being uniformly centered** so that **machines won't have any problems processing the cables** and **no costly finishing work is required**.

**We can optionally imprint your logo on the cable.**

The cable specifications you provide are **in safe hands**.

Your designs are kept safe and **will not be passed on to other parties**.

**We also offer our key accounts professional sales and marketing support** and will provide **budget-friendly info brochures** on demand. After the sale, we're still here for you and your sales success.



## Installation

### SOMMER CABLE for the *installer*

You depend on **reliable and fast delivery** and sometimes need the impossible to be made possible. Owing to special contracts with our forwarders, we can often **process and ship your order even on the same day**, provided we **receive your order before 3 p.m.**

We do not only supply cables, but also **useful accessories, tools, connectors and electronic components**.

Due to **high-quality jacket blends** our cables are literally made for **challenging temperature ranges and adverse conditions**. This will guarantee you **longlife quality cables** in your cable ducts for your abiding peace of mind.





## HiFi & Home

**SOMMER CABLE** for the *hi-fi enthusiast*

Our product managers are all hi-fi freaks. They have been involved in the business for several years with great **enthusiasm and passion. As musicians they take a realistic approach to sonic quality** and are not fooled by "esoteric" statements or fashionable trends.

For years we have been producing **linear speaker and phono/RCA connectors** for the high-end hi-fi market.

We have received great recognition from users, hi-fi magazines and resellers for our **fair and reasonable pricing structure.**

## Conference & Multimedia

**SOMMER CABLE** for the *media room designers and installers*

For designers, **SOMMER CABLE** offers a **highly detailed catalog** containing all pertinent **technical data**. The information provided in the **SOMMER CABLE** catalog is **clearly laid out so that you can find the facts and figures you need quickly**. This makes it easy to forward the information to your customers via fax or e-mail. Furthermore, installers and designers can find the specifications and descriptions of our **cables online**.

**About 96% of our cables** are always **in stock**, minimizing shipment delays, and keeping your customers happier. Please send your tenders to our e-mail address **ausschreibung@sommercable.com** or by fax to **+49 (0) 70 82/4 91 33-11**.



## Professional Audio & Event

**SOMMER CABLE** for the *ental firm and the soundman*

**SOMMER CABLE** not only offers a **vast range of standard stagebox systems, ready-made cables and multicore snakes**, but we also manufacture in-house **customer-specific special solutions** for almost every possible application. Our customizing service offers **clear heat-shrink tubing**, individualized color-coding and velcro options. Uniquely identifying your cables in this way should help reduce their "disappearance" at gigs. For information regarding custom solutions our **qualified technical advisors** will be glad to help you. The cables we offer you are equipped with a **special stranding technology** and a **thick, rugged jacket that makes them easy to wind onto a reel**.



## Music & Instruments

**SOMMER CABLE** for the *music dealer*

We know how important overall support is, and we **support our resellers** with **promotional material, brochures and catalogs, eye-catching displays, and attractive packaging**.

Music retailers appreciate the **short delivery times** of cables and the **courteous and committed support** of our employees. We offer a **wide variety of products in various price categories**.

This helps you **respond to a very broad range of customer demands**.



# Things worth knowing about SOMMER CABLE

## We are here for you

Sales +49 7082/491 33-0  
 Tech. Support +49 7082/491 33-10  
 info@sommercable.com | www.sommercable.com

Monday till Friday 8:30 am to 12:00 pm  
 and from 1:00 pm to 4:30 pm.  
 We are looking forward to your call !

You can regularly find us at national & international trade shows. You can find the exact dates at [www.sommercable.com](http://www.sommercable.com)


## Distributors



For our international customers our reliable distributors are at your service around the world. The distributors guarantee you a nationwide, fast delivery and a professional support. You will find the right contact for your country on our homepage under the "Contact" rider. Should your country not be listed on this list, please leave us a note at [info@sommercable.com](mailto:info@sommercable.com). We will contact you as soon as possible.



## Our prices – your benefit

Prices and additional information can be obtained by scanning the given **QR codes** (scan app required) or by entering the search code number (magnifier symbol  on PC) at [www.sommercable.com](http://www.sommercable.com).

You will find your discounted pricing and product availability in our B2B shop. Please contact us to request your personal login ID and password.

Our **complete price list** can be downloaded as an **Excel file** at [www.sommercable.com/pricelist](http://www.sommercable.com/pricelist) or requested from us by phone or via e-mail. We reserve the right to change prices in the event of substantial fluctuations in commodity prices.

Use the **SOMMER CABLE** catalog as your **advertising!** Simply order extra free catalog copies for your customers from us.

**As an AV Contractor, Pro Audio or AV Dealer, Distributor or Manufacturer you will receive special discounts.** Simply request them from us (if you are not a corporation, LLC or limited partnership, we will ask you to send us a copy of your business license or permit).

We sell our cables **„copper all inclusive“**. It is important to us that you, as our customer, shall get a **reliable quote, without copper risk** or bothersome calculations, which can easily lead to errors and wrong comparisons if there is a mistake.



## 24 – 48 hours

... are our average delivery times. We keep a generously stocked inventory from which we can **instantly supply 96% of our catalog products**. Stageboxes, systems and looms can be made for you within a few days. Delivery will be effected through a fast and reliable parcel service (up to 32 kg / 70.6 lbs). Bulky goods are delivered by a shipping company. This also applies to deliveries to neighboring countries. Here we advise our foreign customers to have the goods picked up from us by their regular forwarder.



## Payments

We accept **advance payments** by wire transfer. We also accept **Visa, Eurocard, or Mastercard** (and **American Express** and **Discover** in the US). Please provide your credit card number, name of your credit card company, name of the credit card holder, expiration date and the security code.

Please wire your payments to one of the following bank accounts:

**Commerzbank Pforzheim**  
**BIC: COBADEFF**  
**IBAN: DE91 6664 0035 0405 0654 00**

or **Sparkasse Pforzheim**  
**BIC: PZHS DE 66XXX**  
**IBAN: DE44 6665 0085 0000 9059 68**

or **Hypo Vereinsbank Karlsruhe**  
**BIC: HYVEDEMM475**  
**IBAN: DE49 6602 0286 0002 3481 60**

or **Volksbank Pforzheim**  
**BIC: VBPFDE66**  
**IBAN: DE30 6669 0000 0003 6230 69**

## Try before you buy

Would you like to get your hands on some bulk cable samples and put them to the test? Bend them, strip them, and see yourself? Just order the cable samples of your choice your choice from this catalog.



We are member.





# GO GREEN



## ISO 9001

For an ongoing process optimization, and also for the sustainable safeguard of our high product and service quality, we rely on the ISO 9001:2015 quality management system.



Source: E3/DC



### Carbon neutrality

... has always been a major concern for us and we keep our investments constantly geared to this. For example, since 2006 we have run two cogeneration power plants, and since 2008 we have produced summer solar power on our company roofs. In 2019 we doubled the collector output from 30 kWp to **60 kWp** and also integrated a **40 kW E3DC storage system**. At the present time we are therefore producing more green energy than we actually consume. Moreover, several wallbox charging stations are available for the e-cars and employee's cars. With all paper-based product packagings and catalog productions we focus on sustainability. Our wish and goal is to establish ourselves in all areas as a carbon-neutral and sustainable company and to keep investing in this field in order to do our share for a life-friendly planet earth.

### Quality & environment

#### RoHS

The RoHS Directive (Restriction of certain Hazardous Substances) of the European Union (EU) regulates the restriction of the use of hazardous substances to a maximum of 0.1%. Since July 2006 the Directive 2002/95/EC (RoHS 1) has prohibited the use of cadmium (Cd), mercury (Hg), hexavalent chromium (Cr(VI)), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) as well as lead (Pb) in electric and electronic devices. Since 2013 the Directive 2011/65/EU (RoHS 2) has superseded the previous directive.

From July 2019 the Directive 2015/863/EU (RoHS 3) has been in force which, in addition, has incorporated the following substances: Bis(2-ethylhexyl)phthalate (DEHP), Benzyl Butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate (DIBP). All RoHS specifications regarding our products are listed in a separate column in our pricelist.



#### WEEE

(Waste Electrical and Electronic Equipment) – EU Directive on the Reduction of the growing amount of electronic waste from discarded electric and electronic appliances. Its goal is the avoidance, reduction and environmentally friendly management of the increasing quantities of electronic waste by means of an extended manufacturer responsibility for their products.

Before 2006, **SOMMER CABLE** had already adjusted their entire cable, assembly and system productions to adhere to EU Directives 2002/95/EC (RoHS) and 2002/96/EC (WEEE).



## Warranty

The warranty covers our own brands **SOMMER CABLE**, HICON, Cardinal DVM, and SYSBOXX Systems. .... [www.sommercable.com/service](http://www.sommercable.com/service)

## Only when you are satisfied, we will be, too.

Our products are made to bring you joy and to meet your requirements. That's why we attach great importance to excellent quality, good professional advice and a friendly customer service. Should for once something not be up to your wishes, please call us at +49 7082 49133-0 or send an e-mail to [info@sommercable.com](mailto:info@sommercable.com). For the easy handling of returns please use the return slip provided for this purpose after prior consultation under <https://www.sommercable.com/service/returns>



# EXPLANATION OF SYMBOLS

## APPLICATION

### STAGE

Cables for applications especially on stage, at open air festivals or live events. These cables are easy to wind, simple to handle and will not knot, if used correctly, and you will not trip over them when they are laid out on stage. They are ideal for the professional and hobby musician.

### MOBILE

Cables for mobile broadcast applications require a flexible PVC jacket, fine-stranded wire construction, high bending cycles and a low bending radius. They are easy to wind and suitable for outdoor applications. For extreme outdoor applications (satellite vehicles, broadcasting of sporting events, etc.), we recommend the versions with **PUR** or **TPE** jackets. These jackets used on **SOMMER CABLES** are extremely rugged, halogen-free and can also handle temperatures.

### STUDIO

These cables are optimized for sound quality. Their sophisticated stranding and wiring methods combined with perfect shielding ensure pristine signal transmission and fatigue-free listening pleasure. They are used in studio settings, for broadcasting and in satellite vehicles.

### INSTALL

Cables for installation are primarily designed for longevity and safe transmission, especially for **ELA-100V-technology** (a German standard). They can be installed inside walls and plenums over long distances, but are also suitable for internal use in audio electronics (amplifiers, speakers, etc.) or racks. If you need to meet certain fire code requirements, please refer to the **halogen-free/PUR** and **FRNC** symbols.

### ELA

Electro-acoustic cables are suitable for use in 100-volt public address speaker systems. On principle nearly all LF (low-frequency) cables and speaker cables in our program can be used in ELA-100V-technology (a German standard). We use high quality materials for the insulation, such as PE, SPVC, PUR, TPC-ET and PP. The test voltage for our LF cables is 500 V, in exceptional cases 1200 V (please ask us for specifications), the operating voltage is 300 V. The main problem in ELA-100V-technology are the long distances that must be covered. The user must calculate them. More information can be found on [www.sommecable.com/en/service](http://www.sommecable.com/en/service)

### HIFI

These cables are optimized for sound and were developed for true, i.e. electrically and acoustically linear transmission of audio signals. You can use them to connect amplifiers, speakers, CD players and other audio devices. They are recommended for the ambitious studio operator.

## PROPERTIES

### ANALOG

Analog cables are used to transmit low frequency audio signals and to connect microphones, speakers and many other audio components.

### DIGITAL

### S/P-DIF

These cables are primarily designed for transmitting digital signals in the AES/EBU, S/P-DIF and DMX formats. They are designed and labeled with the required surge impedance of 50, 75 or 110 Ω. Cables which transmit the S/P-DIF standard exclusively can be identified by the S/P-DIF button. Please note the surge impedance requirements of your digital equipment, as stated in the data sheets. Almost all of our digital cables can be used as high quality analog cables, as well as for connecting scanners, mixing boards, hi-fi components and a number of other devices in a recording studio.

### HD/UHD

Basically every 75 Ω cable is SDI-suitable – unless a certain length is not exceeded. The crucial factor for the maximum transmission length is the attenuation at the relevant frequencies. Here, for instance, the recommended values are 20 dB, 1500 MHz and 100 m (328 ft.) cable length for SMPTE424M (3G) or 40 dB, 3000 MHz and 100 m (328 ft.) cable length for SMPTE2081 (6G). For long transmission distances fiber-optical systems can also be used. General statements about functioning transmission lengths are problematic since these always depend on the quality and above all on the standard of the device interfaces.

This table gives you an overview of the maximum transmission lengths of our video cables as per SMPTE standard or data rate.



### HDTV

Currently the buzzword in the television industry is "HDTV". SCART, RCA or S-video connectors are no longer used for transmission. The new standards are called HDTV (or DVI) and YUV. HDMI and DVI signals can be encoded with HDCP. The playback units and monitors must then support HDCP. Alternately, YUV can be used for a simpler transmission, but HDCP signals are not transmitted that way. YUV can be transmitted with 3 coax cables, usually fitted with RCA or BNC connectors. Caution: A YUV signal is not compatible with an RGB signal, despite the fact that the 3 plugs on the units are often identified as red/green/blue.

### HALOGEN-FREE

In case of fire cables marked "halogen-free" will not develop any gases that are poisonous to humans such as chloride. This is often a requirement for public buildings. But be careful! A halogen-free cable is still flammable, and therefore such cables normally require a flame-retardant agent, and are then designated FRNC (flame-retardant non-corrosive).

## Smoke suppressant

If cables or wiring with insulation or jackets containing chlorine burn (e.g., PVC) dense black fumes will result. Halogen-free cables or wiring only develop about a tenth of the fume density when compared to PVC cables or wiring. Thus they are considered to be smoke suppressantive.



### FRNC

These cables comply with commonly applicable fire code guidelines. They are halogen-free and flame-retardant. This guideline is classified as **FRNC** (flame-retardant non-corrosive).

**EXPLANATION** of testing procedures according to VDE 0472, Part 804:

### FRNC Test Type A (≙ IEC 60332-2-2)

A cable sample measuring 60 cm (2 ft.) in length is vertically suspended in the center of a metal box (1200 mm tall by 300 mm wide by 400 mm deep (circa 47 x 12 x 16"). A gas burner with a defined flame is installed in such a way that its axis is tilted by 45° in reference to the vertical. The flame hits the cable sample about 100 mm/4" above the lower end. The flame burns until the conductor or the topmost metal shielding shows through, but no longer than 20 seconds. To pass the test, either the test sample must not catch fire, or if it does start to burn it must then extinguish itself, and whatever damage is caused by the flame's heat must fail to reach the top end of the tested cable sample.

### FRNC Test Type B (≙ IEC 60322-1-2)

A cable sample measuring 60 cm (about 2 ft. in length) is vertically suspended in the center of a metal box (1200 mm tall by 300 mm wide by 400 mm deep (circa 47 x 12 x 16"). A gas burner with a defined flame is installed in a way that its axis is tilted by 45° in reference to the vertical. The flame hits the cable sample about 100 mm/4" above the lower end for about 1 – 2 minutes, depending on the weight of the sample. The test is successful if the test sample did not burn or if the flame that resulted extinguished itself and the damage caused by the heat of the flame did not reach the top end of the tested cable sample.

### FRNC test type C (≙ IEC 60322-1-3)

Cable samples, each measuring 360 cm/14" in length, are fastened side by side to a ladder-like test rack. This test rack is inserted vertically into a kiln, at a distance of 150 mm/6" to the back of the kiln. The flame is directed right against the flame samples at a height of approximately 60 cm/2 ft., at a temperature of approximately 800°C/1472°F, by a burner about 250 mm/10" wide. The exposure time is 20 minutes. The test is successful if the ensuing flame extinguishes itself and the damage caused by the heat of the flame did not reach the top end of the tested cable sample.



**CPR**

Since July 1st, 2017, cables and lines, which are permanently installed in buildings, have been subject to the **European Construction Products Directive EU Regulation 305/2011**. It implements a grid for a **harmonized pan-European classification of fire classes** according to **flame retardancy, smoke development and halogen-free** operations. Cables with the **CPR** Button (CPR= **C**onstruction **P**roducts **R**egulation) comply with the general fire protection regulations of the European CPR (= Construction Products Regulation) in the (additionally specified) Eca, Dca, Cca or Bca classifications. Without further indications the cable must be allocated to the Fca category.

**PUR**

A PUR jacket is extremely tough, especially resistant to the cold (-40°C/-40°F), yet remains easy to wind even at below-freezing temperatures. At **SOMMER CABLE** we usually give our cables a halogen-free PUR jacket, which, aside from the above-mentioned advantages, is very heat and sunlight tolerant. This jacket is a little more expensive than the standard PUR formulation, but it is now required or preferred by almost all German broadcasting companies and professional installers.

**E30**

E30 designates a fire protection class based on **DIN VDE 0815/DIN VDE 4102 (Part 12)** which represents improved performance in case of a fire compared with common FRNC cables, for example. In compliance with this norm, **E30** guarantees proper cable performance for **30 minutes**. Please note, that it is not possible to manufacture all cables according to **E30** or even **E90**, because the insulation on some cables does not comply with the norm stated above.

**TERRA**

This cable has a special jacket mixture made of **PE** that is suitable for **underground installation**. Please note, that a PE jacket does not automatically make a cable suitable for underground installation, because this type of cable must be specifically designed to withstand the pressures under ground. However, all **SOMMER CABLES** with this symbol are suitable for underground installation.

**ARAMID**

Aramid fibers (acronym for "aromatic polyamide") are heat-resistant and incredibly strong synthetic fibers with a very high melting point (>500 °C / >932 °F) and a very low elongation. They are mostly used in aerospace, in the military sector for armors, for the reinforcement of hulls or in ballistic vests. In a cable they can be used as **strain relief**, as **thermal insulation** or **anti-rodent protection**. Depending on the kind of stranding, the aramid fibers also have a positive impact on the number of bending cycles or the attenuation or capacitance of a cable. The aramid fibers can be integrated either in a stranded bundle, loose or firmly baked in the jacket material.

**AQUA**

All cables marked with the **AQUA** button are **longitudinally watertight up to 20 bars of water pressure** or **transversely watertight (AQUA MARINEX series)**. The special PUR jacket keeps water and other fluids from penetrating the surface and prevents longitudinal dispersion in case of cable damage. The watertight jacket is also robust enough to accept the installation of high-pressure end connectors which are inevitably needed to prevent moisture from entering the cable. Due to its combination of a special saltwater-resistant PUR jacket and a protective tape, the **AQUA MARINEX** cable series can be permanently installed under water. Penetrating water would not only speed up the oxidation process, but due to the effect of capillary action it would also alter the damping and other relevant electrical values. Here, video cables and other coaxial cable types are especially affected (e.g., when used for cameras and video monitors). With orders of at least 2000 m/6500 ft. almost all of our cables can be made with a longitudinally or transversely watertight jacket.



The foamed insulation employed in some cables and lines is considered very fragile and under severe strain will be adversely affected by clamping and chuck strain relief systems. In particular with XG/HD-SDI video or AES/EBU cables the resulting attenuation losses may have fatal consequences. Many of these common lines are unsuitable for permanent flexible use, since too many bending cycles will cause the foamed insulation to deteriorate. In these higher-end lines **SOMMER CABLE** therefore relies on a special manufacturing process for the insulation called **HD-SGS (High Density Skin/Gas/Skin)**. Here the PE or PP insulation is physically or chemically gas-injected and then cross-linked, sealed or smoothed both on the outer skin and in the inner core (which is in contact with the copper wire). This procedure yields the best possible electrical values, and these values are retained even under severe strain. In our **SPIRIT LLX** high-end guitar cable and the **ASTRAL LLX** high-end SAT cable this cross-linkage was even implemented into the carbon screen.

**OFC**

**SOMMER CABLE** mostly uses oxygen-free (OFC) or low-oxygen copper. For your information: Copper has a specific resistance of 0.0178 Ω per meter at a cross-section of 1 mm<sup>2</sup>/AWG17. The purer the metal, the smoother it is (high bending cycles!) and the more consistent this value will remain over the years.



The **Pur Master Blend** is a cable jacket formula that is based on a polyurethane component that was especially developed for **SOMMER CABLE**. The jacket on the **PMB** can handle abuse and the cold (-40°C/-40°F) and is free of adhesion with a surface that is easy to clean. **PMB** offers the toughness and temperature resistance of **PUR** and the flexibility of **PVC**. **PMB** is not halogen-free or flame-retardant.



This jacket is a granular blend based on a PVC formula developed exclusively for **SOMMER CABLE**. **S-PVC** is a super soft PVC with the feel and flexibility of a soft rubber cable, but significantly more resistant to notching and cold temperatures than most standard PVC jackets. While most cable jacket mixtures already start tearing during mobile application in temperatures of -10°C/-14°F, the S-PVC withstands temperatures of -30°C/-22°F.



This is a special procedure used by **SOMMER CABLE** to compensate for the typical tendency to bend created automatically during stranding of multipair cables. Simplified this means: To produce a torsion-free cable, expensive and complex stranding machines are needed to counter-strand outer pairs against the core. Doing so produces a multi-conductor cable that can be wound a thousand times or twisted into a figure-8 without knotting or buckling. All multipair cables identified with the **X-TORSION** logo are suitable for extremely high bending cycles (e.g., floor cables). They are recommended for professional broadcasting and event technology.



With high-resolution image and video data transmission in particular, cable performance plays an important role. Products marked with this button allow the **high data transmission rate** of 10 or 40 gigabits per second.

*Dear customers and interested readers,*

apart from our comprehensive **range of bulkware cables and connectors** presented in the catalog, we also offer many other solutions in the field of professional, high-quality cables and connection technology.

Here we focus on the audio, video, broadcast, studio technology and media engineering sectors. In addition to the **cable bulkware** and our large variety of **connectors**, the product range – including our own brands HICON, CARDINAL DVM, and SYSBOXX – also comprises **connection cables** for the most diverse applications, individually configurable **distribution systems** as well as **electronic components**.

For your convenience all current **catalogs & flyers** are available **online** so you can directly **flip through** and **browse** them or **order your free copy**:  
<https://www.sommercable.com/order-catalog>

Moreover, there is also our **24/7 B2B shop** with **over 25.000 products** waiting for you. You will receive your access data by phone under +49 7082 491330 or via e-mail to [info@sommercable.com](mailto:info@sommercable.com)



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## Our product world



### Bulk Cables



### Ready-made Cables



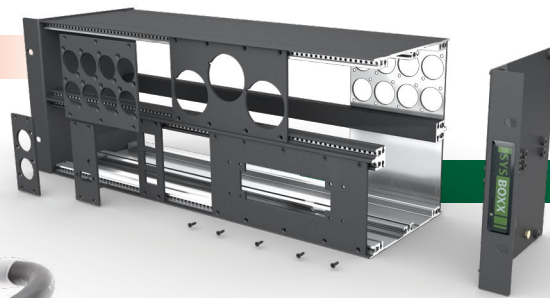
### Multicore & Power Distribution Systems



### Mechanics & Accessories



### Connectors



**SYSBOXX**  
THE MODULAR SYSTEM BY SOMMER CABLE

### Modular Systems



### Electronics

Simply good vibes.



# BULK CABLE – AUDIO












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ABLE Germany

## OVERVIEW BULK CABLE AUDIO










									
Name:	STAGE 22 HIGHFLEX	CLUB SERIES MKII	SC-SOURCE MKII HIGHFLEX	SC-PRIMUS	SC-SYMBIOTIC/SYMBIOTIC 3	SC-GALILEO 238 & 238 PLUS	SC-MICRO-STAGE	SC-CLUB RED ZILK & BLACK ZILK	SC-SILVER STAGE
Page:	23	23	24	24	25	25	26	26	27
Type:	Microphone cable						Microphone cable AES/EBU		Studio microph. cable AES/EBU
Jacket-Ø (outer dimension) [mm]:	6.4/6.5	6.5	6.5	6.7	5.2	7.0	5.8	7.3	6.4
Conductor construction [mm <sup>2</sup> ]:	2 x 0.22 AWG24	2 x 0.34 AWG22	2 x 0.25 AWG23	2 x 0.50 AWG20	2/3 x 0.20 AWG24	2 x 0.38 AWG21	2 x 0.14 AWG26	2 x 0.25 AWG23	2 x 0.22 AWG24
Insulation:	PE	PE	PE	PE	PE/PP	PE	Foam/Skin-PE	HD-PP	Foam/Skin-PE
Copper spiral shield./double copper spiral shield.:	■/-		■/-	■/-	-/■	-/■	■/-	■/-	■/-
Copper-cross mesh shielding:		■							
Foil shield/fleece shield, conductive:			■/■	-/■					
Carbon shield:								■	
Drain wire:									
Aramid strain relief:									
Digital:							■	■	■
Halogen-free/FRNC/PUR:		-/■/-	■/■/■	-/■/-	■/-/■				
CPR classification:									
AQUA/E30/TERRA/ARAMID:									
Mobile/Installation/ELA:	■/■/-	■/■/■	■/■/■	■/■/■	■/■/-	■/■/-	■/■/-	■/■/-	■/■/-
Shielding factor:	99 %	95 %	100 %	100 %	100 %	100 %	95 %	100 %	99 %
Capacitance cond./cond. per 1 m [pF]:	68	58	60	80	95	50	48	50	53
Capacitance cond./shield. per 1 m [pF]:	130	115	110	145	130	100	120	100	103
Shielding resistance per 1 km [Ω]:	30	25	25	27	25	20	30	10	17.6
Conductor resistance per 1 km < [Ω]:	87	55	78	37	94	52	130	78	42

Color:	Type:	ORDER NO.								
■ black	PVC	200-0001	200-0051	200-0101	200-0151	200-0601	200-0251	200-0371	-	200-0011
	PVC, semi-transparent	-	-	-	-	-	-	-	200-0711	-
	PUR, halogen-free	-	-	201-0101	-	-	-	-	-	-
	FRNC, halogen-free	-	200-0051F	200-0101F	200-0151F	-	-	-	-	-
	without imprint	200-0001NE	200-0051NE	-	-	-	-	-	-	-
	TPE, 3-wire	-	-	-	-	200-0601H3	-	-	-	-
	Plus version	-	-	-	-	-	200-0271	-	-	-
■ blue	PVC	200-0002	200-0052	200-0102	200-0152	-	-	200-0372	-	-
■ red	PVC	200-0003	200-0053	200-0103	-	-	-	-	-	-
■ wine-red	PVC	-	-	-	-	-	-	-	200-0713	-
■ grey	PVC	200-0006	-	-	-	-	-	-	-	-
■ yellow	PVC	200-0007	-	-	-	-	-	-	-	-
■ green	PVC	200-0004	-	-	-	-	-	-	-	-
■ violet	PVC	200-0008	-	-	-	-	-	-	-	-
■ vintage tweed	PVC/Tweed	-	200-0057V	-	-	-	-	-	-	-
■ olive green	PVC	200-008M	-	-	-	-	-	-	-	-

Our range of cable bulkware is continuously updated – you will find the latest status incl. all hi-fi cables in our webshop.

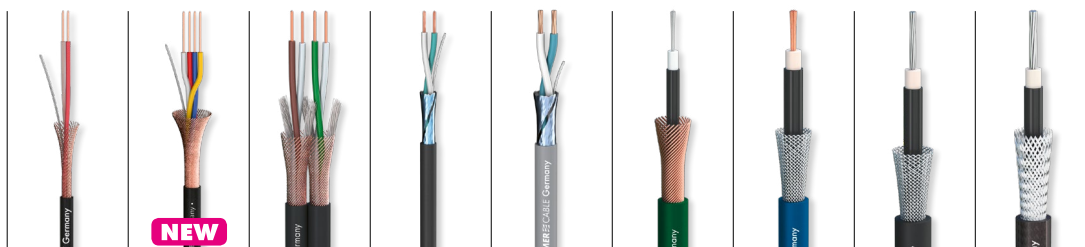




									
<b>Name:</b>	<b>SC-CARBOKAB 225</b>	<b>SC-SQUARE 4-CORE MKII HIGHFLEX</b>	<b>SC-OCTAVE TUBE</b>	<b>SC-AQUA MARINEX MIKRO</b>	<b>TEMPOFLEX MICROPHONE</b>	<b>SC-MICRO DUO ARAMID</b>	<b>SC-SEMICOLON 4 ARAMID</b>	<b>SC-SCUBA 14 HIGHFLEX</b>	<b>SC-GOBLIN</b>
<b>Page:</b>	<b>27</b>	<b>28</b>	<b>28</b>	<b>29</b>	<b>29</b>	<b>30</b>	<b>30</b>	<b>31</b>	<b>31</b>
Type:	Studio microph. cable AES/EBU	Studio microphone cable		Microphone cable transversely watertight AES/EBU	Microphone cable hightemp AES/EBU	Microphone cable, aramid reinforced AES/EBU	Patch and microphone cable aramid reinforced AES/EBU	Patch and microphone cable	
Jacket-Ø (outer dimension) [mm]:	7.6	6.5	6.5	4.6 / 7.2	7.3	8.5	5.7	3.8	4.6
Conductor construction [mm <sup>2</sup> ]:	2 x 0.25 AWG23	4 x 0.20 AWG24	5x0.14(AWG26)+ 2x0,50(AWG20)	2x0,14(AWG26)/ 2x0,25(AWG23)	2 x 0.34 AWG22	2 x 2 x 0.14 AWG26	4 x 0.14 AWG26	2 x 0.14 AWG26	2 x 0.14 AWG26
Insulation:	HD-PP	PE	PE	PVC/PUR	Cross linked Polyolefin	Foam/Skin-PE	PE	PE	PE
Copper spiral shield./double copper spiral shield.:		■/-	■/-	■/■		■/-	■/-		■/-
Copper-cross mesh shielding:	■				■			■	
Foil shield/fleece shield, conductive:	-/■	-/■	-/■						-/■
Carbon shield:									
Drain wire:	■								
Aramid strain relief:					■	■	■		
Digital:	■			■	■	■	■		
Halogen-free/FRNC/PUR:				■/-/■			■/-/■		
CPR classification:									
AQUA/E30/TERRA/ARAMID:				■/-/-	-/-/-■	-/-/-■	-/-/-■		
Mobile/Installation/ELA:	■/■/-	■/■/-	-/■/-	■/■/■	■/■/■	■/■/-	■/■/-		-/■/-
Shielding factor:	100 %	100 %	100 %	95 %	100 %	95 %	90 %	90 %	100 %
Capacitance cond./cond. per 1 m [pF]:	46	65	69	65/50	50	51	45	65	65
Capacitance cond./shield. per 1 m [pF]:	90	120	120	190	90	101	80	130	120
Shielding resistance per 1 km [Ω]:	10	20	17	29.1/23.8	14	38		30	30
Conductor resistance per 1 km < [Ω]:	78	98	140	141/78	62	135	140	135	140

Color:	Type:	ORDER NO.									
■ black	PVC	<b>200-0281</b>	<b>200-0301</b>	-	-	-	<b>200-0171</b>	-	<b>200-0311</b>	<b>200-0351</b>	
	PVC, without imprint	-	<b>200-0301NE</b>	-	-	-	<b>200-0171NE</b>	-	-	-	
	PUR	-	-	-	-	-	-	<b>520-0151</b>	-	-	
	PUR, 0.14 mm <sup>2</sup>	-	-	-	<b>200-0141AQ</b>	-	-	-	-	-	
	PUR, 0.25 mm <sup>2</sup>	-	-	-	<b>200-0241AQ</b>	-	-	-	-	-	
	TPE	-	-	-	-	<b>200-0051T</b>	-	-	-	-	
■ blue	PVC	-	-	-	-	-	-	-	-	<b>200-0352</b>	
■ red	PVC	-	-	-	-	-	-	-	<b>200-0313</b>	<b>200-0353</b>	
■ grey	PVC	-	-	-	-	-	-	-	<b>200-0316</b>	<b>200-0356</b>	
■ dark grey	PVC	-	-	<b>200-0186</b>	-	-	-	-	-	-	
□ white	PVC	-	-	-	-	-	-	-	-	<b>200-0350</b>	
	PVC, without imprint	-	-	-	-	-	-	-	-	<b>200-0350NE</b>	
	PUR, 0.14 mm <sup>2</sup>	-	-	-	<b>200-0140AQ</b>	-	-	-	-	-	
■ yellow	PVC	-	-	-	-	-	-	-	<b>200-0317</b>	-	
■ green	PVC	-	-	-	-	-	-	-	<b>200-0314</b>	-	










BULK CABLE - AUDIO



Name:	SC-CICADA SO-D14	SC-CICADA 4	SC-PEACOCK MKII	SC-ISOPOD SO-F22	SC-ISOPOD SO-F50	TRICONE MKII	TRICONE XXL	SC-SPIRIT	SC-SPIRIT XXL
Page:	32	32	33	33	33	34	34	35	35
Type:	Patch and microphone cable		Patch and microphone cable AES/EBU	Balanced patch cable		Instrument cable	Instrument and Guitar cable	Guitar cable high end	
Jacket-Ø (outer dimension) [mm]:	2.6	3.4	4.5 x 9.2	3.3	4.2	5.9	5.9	7.0	6.8
Conductor construction [mm²]:	2 x 0.14 AWG26	4 x 0.14 AWG26	2 x 2 x 0.22 AWG24	2 x 0.22 AWG24	2 x 0.50 AWG21	1 x 0.22 AWG24	1 x 0.50 AWG20	1 x 0.50 AWG20	1 x 0.75 AWG18
Insulation:	PE	PE	Foam/Skin-PE	PE	PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Copper spiral shield./double copper spiral shield.:	■/-	■/-	■/-			■/-			
Copper-cross mesh shielding:							■	■	■
Foil shield/fleece shield, conductive:				■/-	■/-				
Carbon shield:						■	■	■	■
Drain wire:	■	■		■	■				
Digital:			■	■					
Halogen-free/FRNC/PUR:	-/-/■	-/-/■		-/■/-					
CPR classification:									
AQUA/E30/TERRA/ARAMID:									
Mobile/Installation/ELA:	-/■/-	-/■/-	■/■/-	-/■/-	-/■/-	■/■/-	■/■/-	■/■/-	■/■/-
Shielding factor:	95 %	95 %	95 %	100 %	100 %	100 %	100 %	100 %	100 %
Capacitance cond./cond. per 1 m [pF]:	65	75	70	74	100				
Capacitance cond./shield. per 1 m [pF]:	120	140	125	143	160	85	85	78	86
Shielding resistance per 1 km [Ω]:	30	39	36	75	75				
Conductor resistance per 1 km < [Ω]:	148	145	90	88	39	90	90	39	25

Color:	Type:	ORDER NO.								
■ black	PVC	-	-	200-0551	200-0401	-	300-0021	300-0271	300-0051	-
	PVC, without imprint	-	-	-	-	-	300-0021NE	-	-	-
	PUR	200-0451	200-0461	-	-	-	-	-	-	-
	transparent	-	-	-	-	-	-	-	-	300-0071
	FRNC	-	-	-	200-0401F	-	-	-	-	-
■ blue	PVC	-	-	200-0552	200-0402	-	300-0022	300-0272	-	-
■ red	PVC	-	-	-	200-0403	-	300-0023	300-0273	-	-
■ grey	PVC	-	-	-	200-0406	201-0406	-	-	-	-
	PVC, 110 Ohm	-	-	-	500-0406	-	-	-	-	-
■ green	PVC	-	-	-	200-0404	-	300-0024	-	-	-
	PVC	-	-	-	200-0400	-	-	300-0270	-	-
□ white	PVC	-	-	-	200-0400	-	-	-	-	-
	PVC, without imprint	200-0450NE	-	-	-	-	-	-	-	-
■ yellow	PVC	-	-	-	200-0407	-	-	-	-	-
■ orange	PVC	-	-	-	200-0405	-	-	-	-	-
■ violet	PVC	-	-	-	200-0408	-	-	-	-	-



									
Name:	SC-SPIRIT XS	SC-SILVER SPIRIT	SC-SPIRIT BLACK ZILK	SC-SPIRIT LLX	SC-CLASSIQUE	COLONEL INCREDIBLE	SC-CORONA	TRICONE SYMASYM	SC-STRATOS
Page:	36	36	37	37	38	38	39	39	40
Type:	Instrument and Guitar cable high end	High-end instrument/ audio cable	High-end guitar/ instrument cable	Low-loss guitar/ instrument cable	Vintage guitar cable	Guitar cable high end	Instrument/ hi-fi AF-phonon cable	Instrument/ patch/ audio combo cable	Instrument/ hi-fi/ phono cable
Jacket-Ø (outer dimension) [mm]:	5.8	7.4	7.2	7.2	6.5	7.2	6.7	11.3 (overall)	8.5
Conductor construction [mm²]:	1 x 0.75 AWG18	1 x 0.22 AWG24	1x0.25 AWG24	1x0.38 AWG21	1x0.50 AWG20	2x0.35 AWG22	1x0.50 AWG20	1x0.22+1x(2x0.14) AWG24/26	1x0.34 AWG22
Insulation:	Foam/ Skin-PE	Foam/ Skin-PE	Foam/ Skin-PE	Foam/ Skin-PVC	Foam/ Skin-PE	PE	PE	Foam/Skin-PE (Instrument), PE (Audio)	PE/PP
Copper spiral shield./double copper spiral shield.:			■/-					■/- (Audio)	
Copper-cross mesh shielding:	■	■		■	■	■	■	■ (Instrument)	■
Foil shield/fleece shield, conductive:									
Carbon shield:	■	■	■	■	■		■	■ (Instrument)	■
Drain wire:								■ (Audio)	
Digital:									
Halogen-free/FRNC/PUR:									
CPR classification:									
AQUA/E30/TERRA/ARAMID:									
Mobile/Installation/ELA:	■/■/-	■/■/-	■/■/-	■/■/-	■/-/-	■/■/-		■/■/-	-/■/-
Shielding factor:	90%	94%	100%	93%	100%	100%	100%	100%	100%
Capacitance cond./cond. per 1 m [pF]:						41		68 (Audio)	
Capacitance cond./shield. per 1 m [pF]:	76	78	80	52	78	130	78	85 (Instrument)/ 120 (Audio)	75
Shielding resistance per 1 km [Ω]:								30 (Audio)	
Conductor resistance per 1 km < [Ω]:	25	41	90	48	36	55	36	91 (Instrument)/ 136 (Audio)	53

Color:	Type:	ORDER NO.								
■ black	PVC	-	300-0011	-	300-0091	-	-	-	301-1101	-
	semitransparent	-	-	300-0351	-	-	-	-	-	-
■ brown	transparent	300-0061	-	-	-	-	-	-	-	-
■ olive green	PVC	-	-	-	-	-	300-008M	-	-	-
□ transparent	PVC	-	-	-	-	-	-	800-0079	-	-
■ grey	PVC	-	-	-	-	-	-	-	-	800-0056
■ tweed-yellow	PVC	-	-	-	-	300-0117	-	-	-	-
■ black-white	PVC	-	-	-	-	300-0110	-	-	-	-
■ black-blue	PVC	-	-	-	-	300-0112	-	-	-	-

BULK CABLE - AUDIO

Name:	SC-ONYX TYNEE	SC-ONYX 2008	SC-ONYX 2025 MKII	SC-SINUS CONTROL	SC-SEMICOLON 2 AES/EBU PATCH	SC-SEMICOLON 4 AES/EBU PATCH	SC-PEACOCK AES/EBU	SC-BINARY 234 AES/EBU MKII
Page:	40	41	41	41	42	42	42	43
Type:	Instrument and patch cable			Instrument cable	AES/EBU & DMX cable			
Jacket-Ø (outer dimension) [mm]:	4,0	2.6x5.9	3.8 x 8.3	6.2x15	5.0	5.2	4.5x9.2	6.2/5.6
Conductor construction [mm²]:	1x0.22 AWG24	2x1x0.08 AWG28	2x1x0.25 AWG24	2x1x0.35+1x0.35 AWG22	2x0.22 AWG24	4x0.14 AWG26	2x2x0.22 AWG24	2x0.34 AWG22
Insulation:	PE	PE-HD	PE	Foam/ Skin-PE	Foam/ Skin-PE	Foam/ Skin-PE	Foam/ Skin-PE	Foam/ Skin-PE
Copper spiral shield./double copper spiral shield.:	■/-	■/-	■/-	■	■/-	■/-	■/-	■/-
Copper-cross mesh shielding:				■				
Foil shield/fleece shield, conductive:				■/-	■/■	-/■		-/■
Carbon shield:								
Drain wire:								
Digital:					■	■	■	■
Halogen-free/FRNC/PUR:					■/■/-	■/-/■		■/■/-
CPR classification:								
AQUA/E30/TERRA/ARAMID:								
Mobile/Installation/ELA:	-/■/-	-/■/-	-/■/-	-/■/-	-/■/-	-/■/-	-/■/-	■/■/■
Shielding factor:	95 %	90 %	90 %	100 %	100 %	100 %	95 %	100 %
Capacitance cond./cond. per 1 m [pF]:					45	40	70	63
Capacitance cond./shield. per 1 m [pF]:	125	120	120	75	95	80	125	115
Shielding resistance per 1 km [Ω]:							36	28
Conductor resistance per 1 km < [Ω]:	85	220	115	53	80	140	90	53

Color:	Type:	ORDER NO.							
■ black	PVC	300-0031	320-0061	320-0101	320-0251	520-0101	520-0141	200-0551	520-0051
	FRNC	-	-	-	-	-	-	-	520-0051F
	PUR	-	-	-	-	-	521-0141	-	-
	PUR-BLEND	-	-	-	-	-	-	-	521-0051
■ grey	PVC	-	-	-	-	-	-	-	520-0056
	S-PVC	-	-	-	-	-	-	200-0552	-
■ blue	PVC	-	-	320-0102	320-0252	520-0102	-	-	520-0052
	FRNC	-	-	-	-	520-0102F	-	-	-
□ white	PVC	-	-	-	-	-	520-0140	-	-





Name:	SC-BINARY 434 DMX512	SC-BINARY 422 TP DMX512	SC-KOLORITH 1	SC-KOLORITH MINI	SC-QUANTUM HIGHFLEX	SC-MISTRAL	SC-TRANSFER HIGHFLEX	SC-PEGASUS
Page:	43	44	44	44	45	46	47	48
Type:	AES/EBU & DMX cable		BUS control cable		Multipair Stage, Studio & Installation	Multipair Studio, Installation	Multipair Stage + OB VAN	Multipair Studio High End
Jacket-Ø (outer dimension) [mm]:	7.0	8.0	7.4	6.5	8.5–29.0	9.0–26.8	9.9–21.8	13.5–21.0
Color of outer jacket:	■ ■	■ ■	■	■	■	■	■	■
Conductor construction [mm <sup>2</sup> ]:	4 x 0.34 AWG22	4 x 0.22 AWG24	2 x 0.35+Netz AWG21	2 x 0.25+Netz AWG23	x 2 x 0.14 AWG26	x 2 x 0.22 AWG24/7	x 2 x 0.14 AWG26	x 4 x 0.20 AWG24
Insulation:	PE	Foam/ Skin-PE	PP	PP	Skin-PE	Foam/Skin-PE	PE/TPC-ET	Foam/Skin-PE
Copper spiral shield./double copper spiral shield.:	■	■			■/-		■/-	■/-
Copper-cross mesh shielding:	■	■					■	■
Foil shield/fleece shield/Drain wire:	■/-/-	■/-/-	■/-/■	■/-/■		■/-/■		■/-/-
Carbon shield:								
Drain wire:								
Digital:	■	■	■	■	■	■		■
Halogen-free/FRNC/PUR:	■/■/-		■/■/-	■/■/-		-/■/-	-/■/■	
CPR classification:	Cca		Dca	Eca				
AQUA/E30/TERRA/ARAMID:	-/-/■/-	-/-/■/-						
Mobile/Installation/ELA:	■/■/■	■/■/■	■/■/■	■/■/■	■/■/-	■/■/-	■/■/-	■/■/-
Shielding factor:	100 %	100 %	100 %	100 %	99 %	100 %	90 %	100 %
Capacitance cond./cond. per 1 m [pF]:	58	45	65	73	45	46	85	37
Capacitance cond./shield. per 1 m [pF]:	100	110	104	115	90	85	140	76
Conductor resistance per 1 km < [Ω]:	15	15	25	30		75	125	
Leiterwiderstand bei 1 km < [Ω]:	53	87	60	78	138	80	138	100

No. of Channels:	Type:	ORDER NO.				Ø[mm]	ORDER NO.	Ø[mm]	ORDER NO.	Ø[mm]	ORDER NO.	Ø[mm]	ORDER NO.
• 2	S-PVC	-	-	-	-	8.5	100-0451-02	9.0	100-0101-02	-	13.5	100-0501-02	
• 4	S-PVC	-	-	-	-	10.2	100-0451-04	11.0	100-0101-04	-	15.4	100-0501-04	
	FRNC (black)	-	-	-	-	-	-	11.0	100-0101-04F	-	-	-	
• 8	S-PVC	-	-	-	-	13.8	100-0451-08	14.8	100-0101-08	-	21.0	100-0501-08	
	PUR, Master Blend	-	-	-	-	-	-	-	-	9.9	100-0401-08	-	
	FRNC (black)	-	-	-	-	-	-	15.0	100-0101-08F	-	-	-	
• 12	S-PVC	-	-	-	-	16.0	100-0101-12	17.6	100-0101-12	-	-	-	
	PUR, Master Blend	-	-	-	-	-	-	-	-	11.5	100-0401-12	-	
	FRNC (black)	-	-	-	-	-	-	16.9	100-0101-12F	-	-	-	
• 16	S-PVC	-	-	-	-	17.5	100-0451-16	19.4	100-0101-16	-	-	-	
	PUR, Master Blend	-	-	-	-	-	-	-	-	14.5	100-0401-16	-	
• 24	S-PVC	-	-	-	-	21.5	100-0451-24	24.5	100-0101-24	-	-	-	
• 32	S-PVC	-	-	-	-	24.0	100-0451-32	26.8	100-0101-32	-	-	-	
	PUR, Master Blend	-	-	-	-	-	-	-	-	18.6	100-0401-32	-	
• 48	S-PVC	-	-	-	-	29.0	100-0451-48	-	-	-	-	-	
	PUR, Master Blend	-	-	-	-	-	-	-	-	21.8	100-0401-48	-	

Color:	Type:	ORDER NO.										
■ black	PVC	540-0051	-	500-0101-1	-	-	-	-	-	-	-	-
	PVC, mini	-	-	-	500-0111-1	-	-	-	-	-	-	
	S-PVC	-	542-0051	-	-	-	-	-	-	-	-	
	FRNC/CPR	540-0051FC	-	500-0101-1FC	-	-	-	-	-	-	-	
	FRNC/CPR, mini	-	-	-	500-0111-1FC	-	-	-	-	-	-	
	PUR-BLEND	541-0051	-	-	-	-	-	-	-	-	-	
■ grey	PVC	540-0056	-	-	-	-	-	-	-	-	-	
■ blue	S-PVC	-	542-0052	-	-	-	-	-	-	-	-	

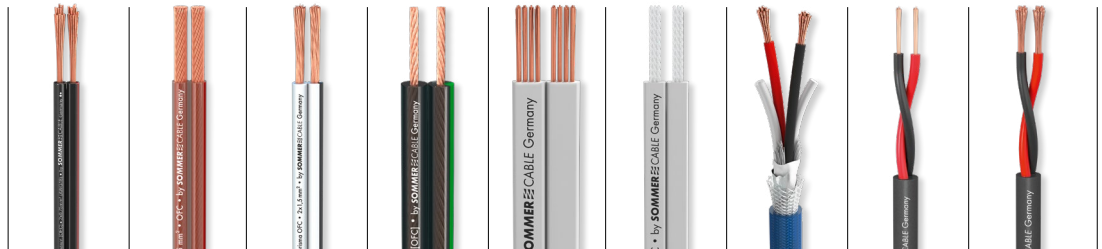
BULK CABLE - AUDIO



Name:	SC-AURA DMCK	SC-MATRIX	SC-LOGICABLE MP	SC-MONOLITH POWER DMX	SC-MONOLITH POWER DMX HV	SC-MONOCAT 110 C + 111 C	SC-MONOCAT 121C	SC-MONOCAT 202+POWER 212	SC-MONOCAT POWER 414
Page:	49	50	51	52/53	52/53	54/55	54/55	54/55	54/55
Type:	Compact Multipair	Câble de mod. multipaire	Multipair Mod. Cable, fixed installation	AES/EBU, DMX & POWER Hybrid Cable		Network, DMX & Power combo cable			
Color:	■	■	■	■	■	■	■	■	■
Jacket-Ø (outer dimension) [mm]:	12.2 – 14.4	10.0 – 21.5	5.5 – 27.0	9.5–13.5	16.0–18.0	13.8/16.0	17.3	15.6/21.8	27.0
Conductor construction [mm <sup>2</sup> ]:	10x2x0.15 AWG26	x2x0.25 AWG23	x2x0.57 AWG23/1	x2x0.14/0.25+P AWG26/ AWG23+P	x2x0.22+P AWG23+P	3x2.5 + 4x2x0.14 (+2x2x0.22)	5x2.5+ 4x2x0.14 +1x2x0.14	(3x2.5)+ 2x4x2x0.14/0.57 +2x2x0.25	3x2.5+ 4x4x2x0.57+ 4x2x0.25
Insulation:	PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE/ PE	Foam/Skin-PE/ PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Copper spiral shield.:	■			■ (0.14)			■	■	
Double spiral Cu screen:									
Copper-cross mesh shielding:	■	■	■	■ (0.25)	■ (0.22)	■	■ (CAT)	■	■
Foil shield/fleece shield/Drain wire:		■/-/-	■/-/■			■/-/-	■/-/-	■/-/-	■/-/-
Digital:	■	■	■	■	■	■	■	■	■
Halogen-free/FRNC/PUR:	-/■/-	-/■/-	■/■/-					■/■/■	
CPR classification:			Dca						
AQUA/E30/TERRA/ARAMID:		-/-/■/-							
Mobile/Installation/ELA:	■/■/-	-/■/■	-/■/■	■/■/-	■/■/-	■/■/-	■/■/-	■/■/-	■/■/-
Shielding factor:	90 %	100 %	100 %	85 %/95 %	85 %	100 %	100 %	100 %	100 %
Capacitance cond./cond. per 1m [pF]:	55	46	43	53   61   52	52   52	44 (CAT)	44 (CAT)	44 (CAT)	44 (CAT)
Capacitance cond./shield. per 1m [pF]:	160	105	83	93   123   97	89   89				
Conductor resistance per 1 km < [Ω]:	130	72	82	130   73   140	80   78	143	143	80	80

No. of Channels:	Type:	Ø [mm]	ORDER NO.	Ø [mm]	ORDER NO.	Ø [mm]	ORDER NO.					
• 1	FRNC / CPR	-	-	-	-	5.5	100-1156-01C	-	-	-	-	-
• 2	HM2 Test Type C	-	10.0	100-0302-02	-	-	-	-	-	-	-	-
	FRNC / CPR	-	-	-	-	9.0	100-1156-02C	-	-	-	-	-
• 4	HM2 Test Type C	-	11.9	100-0302-04	-	-	-	-	-	-	-	-
	FRNC / CPR	-	-	-	-	11.1	100-1156-04C	-	-	-	-	-
• 6	FRNC / CPR	-	-	-	-	12.4	100-1156-06C	-	-	-	-	-
• 8	HM2 Test Type C	-	15.5	100-0302-08	-	-	-	-	-	-	-	-
	FRNC / CPR	-	-	-	-	14.0	100-1156-08C	-	-	-	-	-
• 10	PVC	14.4	100-0351-10	-	-	-	-	-	-	-	-	-
	FRNC / CPR	12.2	100-0351-10F	-	-	15.3	100-1156-10C	-	-	-	-	-
• 12	HM2 Test Type C	-	18.5	100-0302-12	-	-	-	-	-	-	-	-
	FRNC / CPR	-	-	-	-	17.2	100-1156-12C	-	-	-	-	-
• 16	HM2 Test Type C	-	21.5	100-0302-16	-	-	-	-	-	-	-	-
• 20	FRNC / CPR	-	-	-	-	22.6	100-1156-20C	-	-	-	-	-
• 24	FRNC / CPR	-	-	-	-	23.6	100-1156-24C	-	-	-	-	-
• 32	FRNC	-	-	-	-	27.0	100-1156-32	-	-	-	-	-

Type:	ORDER NO.									
1xDMX+POWER, COMPACT, PVC	-	-	-	-	502-0051-1	-	-	-	-	-
1xDMX+POWER, PVC	-	-	-	-	500-0051-1	-	-	-	-	-
2xDMX+POWER, PVC	-	-	-	-	500-0051-2	500-0281-2	-	-	-	-
4xDMX+POWER, PVC	-	-	-	-	500-0051-4	500-0281-4	-	-	-	-
1xCAT+POWER, PVC	-	-	-	-	-	-	500-0151-1	-	-	-
1xCAT+1xDMX+POWER, PVC	-	-	-	-	-	-	502-0141-1	500-0131-1	-	-
2xCAT+2xDMX, PVC	-	-	-	-	-	-	-	-	500-0161-2	-
2xCAT+2xDMX+POWER, PVC	-	-	-	-	-	-	-	-	500-0191-2	-
2xCAT+2xDMX+POWER, PUR-FRNC	-	-	-	-	-	-	-	-	501-0191-2	-
4xCAT+4xDMX+POWER, PVC	-	-	-	-	-	-	-	-	-	500-0191-4












Name:	SC-NYFAZ	SC-TWINCORD	SC-PRISMA	SC-ORBIT 225/240 MKII	SC-TRIBUN	SC-FLUKOS „SF“	SC-DUAL & QUADRA BLUE	SC-MERIDIAN MOBILE	SC-MERIDIAN INSTALL
Page:	56	56	57	57	58	58	59	60	61
Type:	Installation Cable	Speaker Cable				Speaker Cable High-End		Speaker Cable Mobile	Speaker Cable Installation
Jacket-Ø (outer dimension) [mm]:	4.5 x 2.3 – 10.2 x 4.4	4.5 x 2.3 – 11.2 x 5.5	8.0 x 3.6 – 9.8 x 4.5	10.2 x 4.8 12 x 5.9	12.8 x 2.4 – 17.5 x 3.0	8.6 x 1.3	15.5 15.5	6.8 – 10.0	6.8 – 11.2
Conductor construction [mm <sup>2</sup> ]:	2x0.75 – 2x4.0 AWG18 – 11	2x0.75 – 2x6.0 AWG18 – 9	2x1.5 – 2x4.0 AWG15 – 11	2x2.5 2x4.0 AWG13 / 11	2x1.5 – 2x4.0 AWG15 – 11	2x0.50 AWG20	2x4.0 4x4.0 AWG11.2	2x1.5/2.5/ 4.0/6.0 AWG16 – 10	2x1.5/2.5/ 4.0/6.0 AWG16 – 10
Conductor insulation:	PVC	PVC		PVC	PVC	PVC	Skin PE	PVC	FRNC /SIL
Copper spiral shield.:									
Double copper spiral shield.:									
Copper-cross mesh shielding:							■		
Foil shield/fleece shield, conductive:									
Carbon shield:									
Digital:									
Halogen-free/FRNC/PUR:									■/■/-
CPR classification:									Cca
Mobile/Installation/ELA:	-/■/■	-/■/-	-/■/-	-/■/-	-/■/■	-/■/■	-/■/-	■/-/■	-/■/■
Shielding factor:									
Capacitance cond./cond. per 1 m [pF]:	140 / 160	56 – 67	60	60 / 55	60 / 56	60	65	150 – 125	150 – 125
Capacitance cond./shield. per 1 m [pF]:									
Conductor resistance per 1 km < [Ω]:				7.8 / 4.5	13.3 – 4.9		4.5	13 – 3.3	13 – 3.3

Color:	Type:	ORDER NO.								
□ weiß	2 x 0.50 mm <sup>2</sup>	-	-	-	-	-	462-0100-205	-	-	-
	2 x 0.75 mm <sup>2</sup>	420-0075-WS	-	-	-	-	-	-	-	-
	2 x 1.5 mm <sup>2</sup>	420-0150-WS	-	401-0150-WS	-	415-0310	-	-	415-0050NE	-
	2 x 2.5 mm <sup>2</sup>	-	-	401-0250-WS	-	425-0310	-	-	425-0050	-
	2 x 4.0 mm <sup>2</sup>	-	-	401-0400-WS	-	440-0310	-	-	-	-
■ black	2 x 0.75 mm <sup>2</sup>	420-0075-SW	-	-	-	-	-	-	-	-
	2 x 1.5 mm <sup>2</sup>	420-0150-SW	-	-	-	-	-	-	415-0051	-
	2 x 1.5 mm <sup>2</sup> , FRNC/Cca	-	-	-	-	-	-	-	-	415-0051FC
	2 x 2.5 mm <sup>2</sup>	420-0250-SW	-	-	-	-	-	-	425-0051	-
	2 x 2.5 mm <sup>2</sup> , PUR	-	-	-	-	-	-	-	425-0051P	-
	2 x 2.5 mm <sup>2</sup> , FRNC/Cca	-	-	-	-	-	-	-	-	425-0051FC
	2 x 4.0 mm <sup>2</sup>	420-0400-SW	-	-	-	-	-	-	440-0051	-
■ black, transparent	2 x 4.0 mm <sup>2</sup> , FRNC/Cca	-	-	-	-	-	-	-	-	440-0051FC
	2 x 6.0 mm <sup>2</sup> , FRNC/Cca	-	-	-	-	-	-	-	-	460-0051FC
	2 x 2.5 mm <sup>2</sup>	-	-	-	425-0151	-	-	-	-	-
■ blue	2 x 4.0 mm <sup>2</sup>	-	-	-	-	-	-	485-0052-240	-	-
	4 x 4.0 mm <sup>2</sup>	-	-	-	-	-	-	485-0052-440	-	-
■ grey	2 x 1.5 mm <sup>2</sup>	-	-	-	-	-	-	-	415-0056	-
	2 x 1.5 mm <sup>2</sup> , FRNC (shielded)	-	-	-	-	-	-	-	-	415-0056FG
	2 x 2.5 mm <sup>2</sup>	-	-	-	-	-	-	-	425-0056	-
	2 x 2.5 mm <sup>2</sup> , FRNC (shielded)	-	-	-	-	-	-	-	-	425-0056FG
	2 x 4.0 mm <sup>2</sup>	-	-	-	-	-	-	-	440-0056	-
	2 x 4.0 mm <sup>2</sup> , FRNC (shielded)	-	-	-	-	-	-	-	-	440-0056FG
□ transparent	2 x 6.0 mm <sup>2</sup>	-	-	-	-	-	-	-	460-0056	-
	2 x 0.75 mm <sup>2</sup>	-	400-0075	-	-	-	-	-	-	-
	2 x 1.5 mm <sup>2</sup>	-	400-0150	-	-	-	-	-	-	-
	2 x 2.5 mm <sup>2</sup>	-	400-0250	-	-	-	-	-	-	-
	2 x 4.0 mm <sup>2</sup>	-	400-0400	-	-	-	-	-	-	-
2 x 6.0 mm <sup>2</sup>	-	400-0600	-	-	-	-	-	-	-	

BULK CABLE - AUDIO



									
<b>Name:</b>	<b>SC-MERIDIAN E30</b>	<b>SC-AQUA MARINEX SPEAKER 225-240</b>	<b>SC-AQUA MARINEX EL</b>	<b>SC-ECLIPSE SPQ240 MKII</b>	<b>SC-MAGELLAN SPK</b>	<b>MAJOR INVISIBLE</b>	<b>SC-ELEPHANT ROBUST DMX</b>	<b>SC-ELEPHANT MKII</b>	<b>SC-ELEPHANT ROBUST</b>
<b>Page:</b>	<b>61</b>	<b>62</b>	<b>62</b>	<b>63</b>	<b>63</b>	<b>64</b>	<b>64</b>	<b>65</b>	<b>66</b>
Type:	Speaker Cable Installation	Speaker Cable transversely watertight	Speaker Cable Aramid reinforced	Speaker Cable					
Jacket-Ø (outer dimension) [mm]:	11,9/12,8	8,2/11,2	13,0/18,0	9,5	6,0/8,0/11,2	7,8	19,5	8,6 – 15,3	11,0 – 20,5
Conductor construction [mm <sup>2</sup> ]:	2x2,5/4,0	2x2,5/4,0	4x4,0/8,0	2x4,0+1x0,5	2x2,5/2x4,0/2x6,0	2x2,5	4x4,0 + 2x2x0,22	4x1,5/2,5/6,0 8x2,5	4/8/16x4,0
Insulation:	AWG13/11	AWG13/11	AWG11	AWG11/20	AWG13/12/10	AWG13	AWG11/24	AWG15 – 13	AWG11
Copper spiral shield./double copper spiral shield.:	FRNC /SIL	PO/PE	PE	PVC	PVC/FRNC	PVC	PVC	PVC/FRNC	PVC/FRNC
Copper cross mesh shielding:		■			-/■		■		
Foil shield/fleece shield/carbon shield:							■		
Drain wire:									
Digital:							■		
Halogen-free/FRNC/PUR:	■/■/-	■/-/■	■/-/■		■/■/-			■/■/-	■/■/■
CPR classification:								Cca	Cca
AQUA/E30/TERRA/ARAMID:	-/■/-/-	■/-/-/-	■/-/-/■						
Mobile/Installation/ELA:	-/■/■	■/■/■	■/■/■	■/■/■	-/■/■	■/-/■	■/■/■	■/■/■	■/■/■
Shielding factor:		85%			100 %		100 %		
Capacitance cond./cond. per 1 m [pF]:	136/125	90/80	90	136	150/140/130	136	45		
Capacitance cond./shield. per 1 m [pF]:							77		
Shielding resistance per 1 km [Ω]:		16,2/8,1			9,0/5,5/3,5				
Conductor resistance per 1 km < [Ω]:	7,5/4,5	8,21/5,09	4,95	4,5	7,8/5,0/3,3	7,5	4,95/90	12,6 – 3,3	4,5

Color:	Type:	ORDER NO.								
■ black	2 x 2.5 mm <sup>2</sup> , PVC	-	-	-	-	<b>425-0201</b>	-	-	-	-
	2 x 2.5 mm <sup>2</sup> , FRNC	-	-	-	-	<b>425-0201F</b>	-	-	-	-
	2 x 2.5 mm <sup>2</sup> , PUR	-	<b>425-0241AQ</b>	-	-	-	-	-	-	-
	2 x 4.0 mm <sup>2</sup> , PVC	-	-	-	-	<b>440-0201</b>	-	-	-	-
	2 x 4.0 mm <sup>2</sup> , FRNC	-	-	-	-	<b>440-0201F</b>	-	-	-	-
	2 x 4.0 mm <sup>2</sup> , PUR	-	<b>440-0241AQ</b>	-	-	-	-	-	-	-
	2 x 6.0 mm <sup>2</sup> , FRNC	-	-	-	-	<b>460-0201F</b>	-	-	-	-
	4 x 1.5 mm <sup>2</sup> , PVC	-	-	-	-	-	-	-	<b>490-0051-415</b>	-
	4 x 2.5 mm <sup>2</sup> , PVC	-	-	-	-	-	-	-	<b>490-0051-425</b>	-
	4 x 2.5 mm <sup>2</sup> , FRNC/CCa	-	-	-	-	-	-	-	<b>490-0051-425FC</b>	-
	8 x 2.5 mm <sup>2</sup> , PVC	-	-	-	-	-	-	-	<b>490-0351-825</b>	-
	8 x 2.5 mm <sup>2</sup> , FRNC/CCa	-	-	-	-	-	-	-	<b>490-0051-825FC</b>	-
	4 x 4.0 mm <sup>2</sup> , PVC	-	-	-	-	-	-	-	-	<b>490-0051-440</b>
	4 x 4.0 mm <sup>2</sup> , FRNC/CCa	-	-	-	-	-	-	-	-	<b>490-0051-440FC</b>
	4 x 4.0 mm <sup>2</sup> , PUR	-	-	<b>490-0231-440AQ</b>	-	-	-	-	-	<b>490-0251-440</b>
	4x4.0 mm <sup>2</sup> +2x2x0.22 mm <sup>2</sup> , PVC	-	-	-	-	-	-	<b>490-0151-442</b>	-	-
	8 x 4.0 mm <sup>2</sup> , PVC	-	-	-	-	-	-	-	-	<b>490-0351-840</b>
	8 x 4.0 mm <sup>2</sup> , FRNC/CCa	-	-	-	-	-	-	-	-	<b>490-0051-840FC</b>
	8 x 4.0 mm <sup>2</sup> , PUR	-	-	<b>490-0231-840AQ</b>	-	-	-	-	-	<b>490-0351-840P</b>
	24 x 4.0 mm <sup>2</sup> , PVC	-	-	-	-	-	-	-	-	<b>490-0051-2440</b>
4 x 6.0 mm <sup>2</sup> , FRNC/CCa	-	-	-	-	-	-	-	<b>490-0051-460FC</b>	-	
■ dark grey	2 x 4.0 mm <sup>2</sup> , PVC	-	-	-	<b>440-0256</b>	-	-	-	-	
■ orange	2 x 2.5 mm <sup>2</sup> , E30	<b>425-0055E30M</b>	-	-	-	-	-	-	-	
	2 x 4.0 mm <sup>2</sup> , E30	<b>440-0055E30M</b>	-	-	-	-	-	-	-	
■ olive green	2 x 2.5 mm <sup>2</sup> , PVC	-	-	-	-	-	<b>425-008M</b>	-	-	

## MICROPHONE CABLE

BALANCED

### STAGE 22 HIGHFLEX CAPTAIN FLEXIBLE

STAGE 
  MOBILE 
  INSTALL  
 ANALOG 
  OFC



Sectional drawing

#### One thick coat ...

will protect the interior against mechanical wear, such as pulling, tugging, kinking and knotting. For this reason we have fitted the **STAGE 22** with a thick 6.4 mm/0.252" outer jacket. The electrical data and the technical construction are also worth a look: Because of the fine, densely stranded single wires, the **STAGE 22** offers low capacitance and high bending cycles. The shielding, made of bare copper wires, has 99% optical coverage (instead of the usual 85%). Thus, the **STAGE 22** is the ideal cable for stage, home recording, rental companies and ELA-100V applications. The **STAGE 22** is a very affordable cable that doesn't cut corners. For burial underground and for the off-road terrain, we deliver the **CAPTAIN FLEXIBLE** (Order No.: 200-008M) with a tighter wire stranding and an extra thick outer jacket with a 6.5 mm/0.256" diameter.

**FREE SAMPLE AVAILABLE!**



Offroad version:  
**CAPTAIN FLEXIBLE**  
(Order No.: 200-008M)



Ø mm  
**6.4**

Shielding  
**99 %**

mm<sup>2</sup>  
**2x0.22**

#### APPLICATIONS:

- Stage application
- Home recording

#### PRODUCT ADVANTAGES:

- High transmission quality due to the use of fine stranding
- Very rugged owing to the thick, soft PVC jacket
- Good protection due to dense copper spiral shielding
- High flexibility makes it easy to reel
- Very affordable price

#### TECHNICAL DATA

Construction:	(2LI2Y0.22 mm <sup>2</sup> )DY
Jacket, diameter:	PVC 6.4 mm / off-road 6.5 mm
Inner conductors:	2 x 0.22 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	28 x 0.10 mm
Conductor insulation:	PE 1.40 mm
Shielding:	Copper spiral shielding with 0.10 mm indiv. strands
Shielding factor:	99%
Temperature range:	-20°C...+70°C
Fire load per m:	0.22 kWh
Weight per 1 m:	44 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	68 pF
Capac. cond./shield. per 1 m:	130 pF
Cond. resistance per 1 km:	< 87 Ω
Shield. resistance per 1 km:	< 30 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	approx. 100 Ω

#### COLOR

COLOR	ORDER NO.
■ black	<b>200-0001</b>
■ blue	<b>200-0002</b>
■ red	<b>200-0003</b>
■ green	<b>200-0004</b>
■ icy grey	<b>200-0006</b>
■ yellow	<b>200-0007</b>
■ violet	<b>200-0008</b>
■ black, without imprint	<b>200-0001NE</b>
■ olive green, off-road	<b>200-008M</b>



☎ x00001

## MICROPHONE CABLE

BALANCED

### CLUB SERIES MKII

STAGE 
  MOBILE 
  STUDIO 
  INSTALL 
  ELA  
 ANALOG 
  FRNC 
  OFC



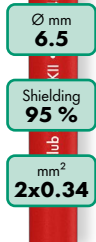
Sectional drawing

#### No blood running through those veins ...

yet a whole lot of life. A wire gauge of 2 x 0.34 mm<sup>2</sup>/AWG22 is impressive and the electrical data speaks for itself. A cable that provides great performance data at an excellent price, used for stage and studio settings. The large cross section and the low capacitance guarantee outstanding transmission quality, even over longer distances. The shielding, made of bare copper wires, has a 95% optical coverage (instead of the usual 85%). The robust, rubber-like, matt outer sleeve is preferred by performing musicians and guarantees outstanding flexibility even in the lowest temperatures.

Now also available in an FRNC version!

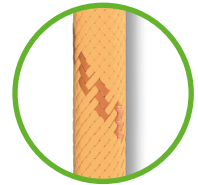
**FREE SAMPLE AVAILABLE!**



Ø mm  
**6.5**

Shielding  
**95 %**

mm<sup>2</sup>  
**2x0.34**



**VINTAGE TWEED**  
version with cloth mesh  
(Order No.: 200-0057V)

#### APPLICATIONS:

- Stage application
- Studio operation
- Fixed installation

#### PRODUCT ADVANTAGES:

- High transmission quality through the use of oxygen-free copper strands with a large wire gauge of 2 x 0.34 mm<sup>2</sup>/AWG22
- Very low capacitance due to PE insulation
- Good protection due to the dense copper-braided shielding
- High flexibility makes it easy to wind

#### TECHNICAL DATA

Construction:	(2LI2Y0.34 mm <sup>2</sup> )CY
Jacket, diameter:	PVC/FRNC 6.5 mm
Inner conductors:	2 x 0.34 mm <sup>2</sup> (AWG22)
Copper strands per conductor:	19 x 0.15 mm
Conductor insulation:	PE 1.50 mm
Shielding:	Copper-braided shielding with 0.15 mm indiv. strands
Shielding factor:	95%
Temperature range:	-25°C...+70°C
Fire load per m:	0.22 kWh
Weight per 1 m:	48 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	58 pF
Capac. cond./shield. per 1 m:	115 pF
Cond. resistance per 1 km:	< 55 Ω
Shield. resistance per 1 km:	25 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	approx. 100 Ω

#### COLOR

COLOR	ORDER NO.
■ black	<b>200-0051</b>
■ blue	<b>200-0052</b>
■ red	<b>200-0053</b>
★ black, FRNC	<b>200-0051F</b>
■ black, without imprint	<b>200-0051NE</b>
■ vintage tweed	<b>200-0057V</b>



☎ x00002

## MICROPHONE CABLE

BALANCED, OUTDOOR, BROADCAST

### SC-SOURCE MKII HIGHFLEX

STAGE
  MOBILE
  STUDIO
  INSTALL
  ELA
  HIFI

ANALOG
  FRNC
  HALOGEN-FREE
  PUR
  OFC

#### Choruses of praise ...

from cable connoisseurs have made this cable a bestseller. Originally this microphone cable was developed for manufacturers of professional studio microphones. Their demands for top quality helped us design a professional and yet affordable studio microphone cable. The **SC-SOURCE** is 100% shielded due to the use of a dense copper spiral shielding and a rugged braided fleece around the wire pairs (FRNC version with AL foil). The fleece has been vaporized on both sides with a conductive aluminum layer. This guarantees the 100% shielding will last even with strong wear. This cable should be used wherever electrical sources could interfere with audio and data transmission. Cables with similar excellent values cost almost twice as much as our competitors. The fine 0.05 mm/AWG44 copper stranding (PVC version) makes it a very popular cable for outdoor use and mobile applications.

**FREE SAMPLES AVAILABLE!**  
Sectional drawing see website.

STRONG  
SPVC

Ø mm  
**6.5**

Shielding  
**100%**

mm<sup>2</sup>  
**2x0.25**

#### APPLICATIONS:

- Professional studio and microphone technology
- Outdoor transmission/OB vans
- Fixed-installation stage use

#### PRODUCT ADVANTAGES:

- Neutral and loss-free audio transmission due to special copper strand design
- 100% shielding due to dense copper spiral shielding and an extra AL fleece/AL foil
- Professional technology at a budget price
- Available in an abrasion-proof cold-resistant PUR version

#### TECHNICAL DATA

Construction:	(2LI2Y0.25 mm <sup>2</sup> )(ST)DY
Jacket, diameter:	6.5 mm
Jacket material:	Standard in PVC/FRNC version according to Test Type C
Inner conductors:	2 x 0.25 mm <sup>2</sup> (AWG23)
Copper strands per conductor:	PVC/PUR: 128 x 0.05 mm / FRNC: 32 x 0.10 mm
Conductor insulation:	PE 1.55 mm
Shielding:	PVC/PUR: copper spiral sleeve tin-plated 95% + AL-fleece FRNC: copper spiral sleeve tin-plated 95% + AL foil
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.21 kWh
Weight per 1 m:	48 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	60 pF
Capac. cond./shield. per 1 m:	110 pF
Cond. resistance per 1 km:	< 78 Ω
Shield. resistance per 1 km:	25 Ω
Insulat. resistance per 1 km:	> 200 MΩ

#### COLOR

COLOR	ORDER NO.
■ black	<b>200-0101</b>
■ blue	<b>200-0102</b>
■ red	<b>200-0103</b>
★ black, FRNC	<b>200-0101F</b>
★ black, PUR, halogen-free	<b>201-0101</b>



## MICROPHONE CABLE

BALANCED, LONG-DISTANCE

### SC-PRIMUS

STAGE
  MOBILE
  STUDIO
  INSTALL
  ELA

ANALOG
  FRNC
  HALOGEN-FREE
  OFC

#### The marathon runner ...

doesn't have it easy. He must keep on running. Our cables, too, must cover great distances in the sports arena. But they are lying, not running. A cross section of 2 x 0.50 mm<sup>2</sup>/AWG20 makes this cable ideal for theaters, public buildings, etc. Because of its 100% shielding and its thick outer jacket the **SC-PRIMUS** is also recommended for installation in discos and night clubs. It is unaffected by nicotine's aggressiveness and high temperature fluctuations. Performing artists swear by this cable and rental agencies prefer the **SC-PRIMUS** because of its sturdiness and intrinsic torsion, making manual wind-up a cakewalk. Also available in a halogen-free and flame-retardant FRNC version (in accordance with test type C).

**FREE SAMPLES AVAILABLE!**  
Sectional drawing see website.

Ø mm  
**6.7**

Shielding  
**100%**

mm<sup>2</sup>  
**2x0.50**

#### APPLICATIONS:

- Broadcasting and OB van technology, building installation
- Professional studio technology
- Tough stage application
- Installation in discos, coffee shops, sporting events

#### PRODUCT ADVANTAGES:

- Optimum transmission quality even at greater lengths thanks to the large wire gauge of 2 x 0.50 mm<sup>2</sup>/AWG20
- 100% shielding due to dense copper spiral shielding and extra metallic fleece
- Great durability due to the thick PVC or FRNC jacket with a diameter of 6.7 mm/0.264"
- Easy to reel and good tensile strength

#### TECHNICAL DATA

Construction:	(2LI2Y0.50 mm <sup>2</sup> )(ST)DY
Jacket, diameter:	6.7 mm
Inner conductors:	2 x 0.50 mm <sup>2</sup> (AWG20)
Copper strands per conductor:	28 x 0.15 mm
Conductor insulation:	PE 1.65 mm
Shielding:	Copper spiral sleeve tin-plated + metallic fleece
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.23 kWh
Weight per 1 m:	53 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	80 pF
Capac. cond./shield. per 1 m:	145 pF
Cond. resistance per 1 km:	37 Ω
Shield. resistance per 1 km:	27 Ω
Insulation resist. per 1 km:	> 1GΩ

#### COLOR

COLOR	ORDER NO.
■ black	<b>200-0151</b>
■ blue	<b>200-0152</b>
★ black, FRNC	<b>200-0151F</b>







## MICROPHONE CABLE

BALANCED, BROADCASTING

### SC-SYMBIOTIC / SC-SYMBIOTIC 3

MOBILE 
  STUDIO 
  INSTALL  
 ANALOG 
  PUR 
  OFC 
  HALOGEN-FREE (TPE-Version)

#### Bet that ...

you can hear this cable on the radio? We've added the **SC-SYMBIOTIC** to our product range to meet the demands of our ambitious broadcast and sound engineers. They appreciate the extremely dense, double spiral shielding made of oxygen-free copper, the small diameter and the impressive flexibility we have achieved with the extremely fine stranded construction of 102 x 0.05 mm/AWG44 single stranded wires. The **SC-SYMBIOTIC** was custom-designed according to specifications set forth by broadcasting stations all over the world. Because of its minimal weight, the **SC-SYMBIOTIC** is also ideal for use with gooseneck microphones. For permanent installation and mobile applications, we recommend the halogen-free version of the **SC-SYMBIOTIC** and the low-temperature version in compliance with VDE 0472/part 815. The 3-wire version, with a halogen-free and cold-resistant outer jacket (compliant with VDE0472/part 815), has an extra wire which, when connected, allows the shell grounds of the XLR connectors to be linked. This wiring scheme is standard, and sometimes even compulsory with some TV and radio stations. Of course, this wire can also be used for transmitting supply voltage.

**FREE SAMPLES AVAILABLE!**

Sectional drawing see website.

#### APPLICATIONS:

- Professional radio, TV and studio technology
- Outdoor transmission (TPE)
- Permanent indoor and outdoor installation in public buildings
- Ideal for use with gooseneck microphones

#### PRODUCT ADVANTAGES:

- Designed according to German radio and BBC specifications
- Extremely flexible due to the fine stranded construction (102 x 0.05 mm/AWG44 single strand wires)
- Small diameter for inconspicuous installation
- Perfectly shielded against RF interference

#### TECHNICAL DATA

	SYMBIOTIC	SYMBIOTIC 3
Construction:	(2LI2Y0.20 mm <sup>2</sup> )YDDY	(3LI2Y0.20 mm <sup>2</sup> )YDDY
Jacket, diameter:	5.2 mm	TPE 5.2 mm
Jacket material:	Standard in PVC / TPE-Version in TPE	
Inner conductors:	2 x 0.20 mm <sup>2</sup> (AWG24)	3 x 0.20 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	102 x 0.05 mm	102 x 0.05 mm
Conductor insulation:	PE 1.30 mm	PP 1.30 mm
Shielding:	Double copper spiral, counter-rotating	
Shielding factor:	100%	
Temperature range:	-30°C...+70°C	
Fire load per m:	0.13 kWh	0.11 kWh
Weight per 1 m:	38 g	58 g
Packaging:	100/500 m spool	

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	95 pF	95 pF
Capac. cond./shield. per 1 m:	130 pF	130 pF
Cond. resistance per 1 km:	< 94 Ω	< 90 Ω
Shield. resistance per 1 km:	25 Ω	25 Ω
Insulat. resistance per 1 km:	> 200 MΩ	> 200 MΩ

#### COLOR

- black, PVC
- ★ black, TPE, 3-wire

#### ORDER NO.

**200-0601**  
**200-0601H3**



☎ x00006



## MICROPHONE CABLE

BALANCED, BROADCASTING

### SC-GALILEO 238 & 238 PLUS

STAGE 
  MOBILE 
  STUDIO 
  INSTALL  
 ANALOG 
  OFC

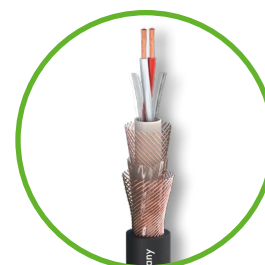


Sectional drawing

#### Dual screen ...

shields better. Just like the **SC-SYMBIOTIC**, but a little bit more exclusive due to the dual reverse copper spiral shielding and the wire pairs embedded in PVC. This makes it even more flexible. Because of the thicker wire diameter (2 x 0.38 mm<sup>2</sup>/AWG21), it is suitable for distances greater than 100 meters/ 300 feet. This cable is technically sophisticated and may be the best microphone cable on the world market. Your recording clients will be impressed with its low-noise performance! In the **SC-GALILEO 238 Plus** (Order No. 200-0271) the double-reverse copper spiral shieldings have been individually insulated using non-conductive sheathing. This separation of grounding shields is common practice in professional sound studios and in broadcasting.

**FREE SAMPLES AVAILABLE!**



**SC-GALILEO 238 PLUS**

#### APPLICATIONS:

- Highly professional studio and stage technology
- Demanding OB van technology for radio and broadcasting
- First-class hi-fi connection (red and white conductors on pin 1, separate shielding)

#### PRODUCT ADVANTAGES:

- Extremely long life and twist-proof due to the thick jacket and the wire pairs embedded in PVC
- Absolutely neutral and loss-free audio transmission due to the use of fine copper stranding
- Excellent protection due to the dense double-reverse spiral shielding
- Very flexible due to the tightly stranded conductors
- Loss-free transmission over long distances due to a large wire gauge of 2 x 0.38 mm<sup>2</sup>/AWG21

#### TECHNICAL DATA

Construction:	(2LI2Y0.38 mm <sup>2</sup> )YDDY
Jacket, diameter:	PVC 7.0 mm
Inner conductors:	2 x 0.38 mm <sup>2</sup> (AWG21)
Copper strands per conductor:	48 x 0.10 mm
Conductor insulation:	PE 1.55 mm
Shielding:	Double copper spiral, counter-rotating Version 238 Plus: + polyester tape
Shielding factor:	100%
Temperature range:	-30°C...+70°C
Fire load per m:	0.22 kWh
Weight per 1 m:	60 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	50 pF
Capac. cond./shield. per 1 m:	100 pF
Cond. resistance per 1 km:	< 52 Ω
Shield. resistance per 1 km:	20 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	38 Ω

#### COLOR

- black
- black (Plus)

#### ORDER NO.

**200-0251**  
**200-0271**



☎ x00008



## MICROPHONE CABLE AES/EBU

BALANCED, STUDIO, STAGE, AES/EBU

### SC-MICRO-STAGE

STAGE
  MOBILE
  INSTALL  
 ANALOG
  DIGITAL
  OFC



Sectional drawing

### The modest master ...

among the microphone cables is the new AES/EBU-capable **SC-MICRO-STAGE**. Though it may look somewhat inconspicuous at first sight, it splendidly meets the most essential requirements of today's live sound and the latest studio technology. It sports a soft PVC jacket that remains flexible when cold, it features low capacitance and is very easy to handle. The narrow cable diameter of 5.8 mm/0.228" is ideal for using 1/8" plugs and XLR connectors, which are popular world wide. When used as a patch or MIDI cable, it will occupy minimal space in your patchbay or home studio. Due to its tight, concentric stranding and foamed Skin PE wire insulation, the **SC-MICRO-STAGE** can effortlessly transmit analog and digital signals (110) over distances greater than 100 meters/328 ft.

For permanent installation we recommend the dual-screened **SC-SEMICOLON** Order No.: 520-0102.

**FREE SAMPLE AVAILABLE!**

Ø mm  
**5.8**

Shielding  
**95%**

mm<sup>2</sup>  
**2x0.14**

#### APPLICATIONS:

- Stage application – Studio

#### PRODUCT ADVANTAGES:

- High transmission quality due to fine stranded wires
- Very robust due to a thick soft PVC jacket
- Well shielded with dense copper spiral shielding
- High flexibility makes it easy to reel

#### TECHNICAL DATA

Construction:	(2LI2Y0.14 mm <sup>2</sup> )DY
Jacket, diameter:	PVC 5.8 mm
Inner conductors:	2 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	18 x 0.10 mm
Conductor insulation:	Foam/Skin-PE 1.20 mm
Shielding:	Copper spiral shielding with 0.10 mm indiv. strand
Shielding factor:	95%
Temperature range:	-25°C...+70°C
Fire load per m:	0.22 kWh
Weight per 1 m:	50 g
Packaging:	100 / 500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	48 pF
Capac. cond./shield. per 1 m:	120 pF
Cond. resistance per 1 km:	< 130 Ω
Shield. resistance per 1 km:	< 30 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	110 Ω

#### COLOR

- black
- blue

#### ORDER NO.

**200-0371**  
**200-0372**



☎ x00005



## MICROPHONE CABLE AES/EBU

BALANCED, STUDIO, STAGE, AES/EBU GAS-INJECTED

### SC-CLUB RED ZILK & BLACK ZILK

MOBILE
  STUDIO
  INSTALL  
 ANALOG
  DIGITAL
  OFC

### For musicians with a clear view ...

we have developed the new **SC-CLUB RED ZILK** and **SC-CLUB BLACK ZILK** microphone cable. After the smashing success of the **ZILK instrument cable series**, now comes a high-quality microphone cable in a matching velvety, semi-transparent design. The cable is not only a real stylish eyecatcher, it is also noteworthy for its many attractive technical features, such as its AES/EBU conformity.

Like with instrument cable, we have fitted the **SC-CLUB RED ZILK** and **BLACK ZILK** microphone cables with a **dual screen** made of a tight helical meshwork and a conductive carbon semiconductor.

At a capacitance of 50 pF/m (15.2 pF/ft.) wire-to-screen, the capacitance is extremely low. The gas-injected insulation ensures **excellent attenuation values**, which makes the cable a reliable partner, especially for studio use, even with above-average transmission distances.

Furthermore the **SC-CLUB ZILK** is one of the most flexible microphone cables available anywhere.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.



Ø mm  
**7.3**

Shielding  
**100%**

mm<sup>2</sup>  
**2x0.25**

Ø mm  
**7.3**

Shielding  
**100%**

mm<sup>2</sup>  
**2x0.25**

#### APPLICATIONS:

- Stylish in the studio, on stage, in jazz clubs, cabaret setting
- Highest-quality microphone cable for studio and live use

#### PRODUCT ADVANTAGES:

- Extremely flexible
- Low capacitance and attenuation due to gas-injected insulation
- AES/EBU and DMX compliant
- Upscale design enhances any environment

#### TECHNICAL DATA

Construction:	(2LI2Y0.25 mm <sup>2</sup> )(ST)CY
Jacket, diameter:	S-PVC 7.3 mm
Inner conductors:	2 x 0.25 mm <sup>2</sup> (AWG23)
Copper strands per conductor:	65 x 0.07 mm
Conductor insulation:	HD-PP gas-injected 1.55 mm
Shielding:	Copper spiral shielding 95% + carbon semiconductor
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.20 kWh
Weight per 1 m:	70 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	50 pF
Capac. cond./shield. per 1 m:	100 pF
Cond. resistance per 1 km:	78 Ω
Shield. resistance per 1 km:	10 Ω
Insulation resist. per 1 km:	200 MΩ
Surge impedance:	110 Ω

#### COLOR

- wine-red
- black, semi-transparent

#### ORDER NO.

**200-0713**  
**200-0711**



☎ x00007

## STUDIO MICROPHONE CABLE AES/EBU

BALANCED, SILVER-PLATED

### SC-SILVER STAGE

MOBILE 
  STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  DIGITAL 
  OFC



Sectional drawing

### When opinions differ ...

... silver-plated audio cables are often a topic for discussion. From a purely technical point of view, this precious metal has the best electrical conductivity of all metals.

As to their sonic impression, opinions on sense and nonsense of such cables often differ greatly. Here Sommer cable tries to shed a light into the darkness: those different opinions are because, due to the natural oxidation, silver is "alive". Unlike copper oxide, silver oxide is conductive, i.e. its electrical and mechanical properties can vary slightly over a longer period of time. This also causes alterations to the tone quality, which is why we can observe different audiophile impressions, and some musicians or hi-fi aficionados may perceive the sound of a silver cable as rather neutral, cool, or overly bright.

Such irritations and discussions must be avoided, of course. Therefore we use only tightly concentrically stranded class 6N (OFC 99.9999 %) copper litz wires for our **SC-SILVER STAGE**, which are then refined and smoothed with the finest quality silver alloy (935/1000). That way they offer a constant performance and can be processed with silver solder neatly and without electrical losses.

The **SC-SILVER STAGE** is equipped with the most up-to-date gas-injected and smoothed wire insulation.

**FREE SAMPLE AVAILABLE!**

STRONG  
SPVC

Ø mm  
6.4

Schirmung  
99%

mm<sup>2</sup>  
2x0.22

#### APPLICATIONS:

- Exquisite microphone cable for studio and stage
- Balanced cable for high-quality microphones, mixing consoles and patchbays
- Balanced cable for hi-fi applications

#### PRODUCT ADVANTAGES:

- Extremely clear, pure sound image
- Permanently neutral transmission, even after frequent use
- Flexible and robust outer jacket of a temperature-resistant PVC compound
- Wave impedance 120 ohms, within the AES/EBU tolerances

#### TECHNICAL DATA

Construction:	(2LI2Y x 0.22 mm <sup>2</sup> ) DY
Jacket, diameter:	Soft PVC 6.4 mm
Inner conductors:	2 x 0.22 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	28 x 0.10 mm, silver-plated
Conductor insulation:	Foam/skin PE 1.6 mm
Shielding:	Helical Cu mesh
Shielding factor:	99 %
Temperature range:	-20° C ... +60° C
Fire load per m:	0.22 kWh
Weight per m:	55 g
Packaging:	100 m / 500 m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	53 pF
Capac. cond./shield. per 1 m:	103 pF
Cond. resistance per 1 km:	42 Ω
Shield. resistance per 1 km:	17.6 Ω
Insulat. resistance per 1 km:	1 GΩ
Surge impedance:	123 Ω

COLOR  
■ black

ORDER NO.  
200-0011 **NEW**



x01658

## STUDIO MICROPHONE CABLE AES/EBU

BALANCED, HIGH-END, WITH CONDUCTOR SMOOTHING

### SC-CARBOKAB 225

MOBILE 
  STUDIO 
  INSTALL  
 ANALOG 
  DIGITAL 
  OFC



Sectional drawing

### Every now and then ...

manufacturers cook up new cable designs for the studio in an attempt to impress customers. They will do things like use solid wires as the inner conductors for the enhanced conductivity the surface layer affords, and employ a certain stranding technique for improved audio signal transmission. Nice theory, but in practice a solid wire has a lot of drawbacks. It is so hard that even the slightest movements can damage the insulation, and it is so inelastic that even a little bending can deform the copper surface. Tensile forces acting upon the connector pins must not be underestimated either. To overcome these problems, **SOMMER CABLE** has developed the new **SC-CARBOKAB 225** which incorporates conductor smoothing by applying highly compressed carbon directly to the concentrically stranded wires. This offers the same electrical benefits of a solid wire, but it stays flexible and ensures consistently excellent values. The good transmission properties of the **SC-CARBOKAB 225** also provide an absolutely linear sound image over long distances of up to 200 meters/650 feet. The shielding, with 100% optical coverage (AL fleece + copper braiding), is important, because you will hardly find any interference coming from peripheral devices (effect units, computers, synthesizers, etc.). For insulation, we use a special HD-PP formulation to attain the lowest possible capacitance values.

With this cable you are "state-of-the-art". End of story.

**FREE SAMPLE AVAILABLE!**

STRONG  
SPVC

Ø mm  
7.6

Shielding  
100%

mm<sup>2</sup>  
2x0.25

#### APPLICATIONS:

- High-end studios and professional installation
- Demanding OB van technology for broadcasting applications
- First-rate hi-fi connections (red and white conductors on pin 1, separate shielding)

#### PRODUCT ADVANTAGES:

- Linear response thanks to the use of carbon conductor smoothing delivering the benefits of a solid wire
- Low capacitance due to the use of the HD-PP high-end insulating material
- Excellent shielding with copper braiding (+ drain wire) and AL fleece
- High conductivity due to the use of OFC 6 (oxygen-free class 6) copper

#### TECHNICAL DATA

Construction:	(2LI2Y0.25 mm <sup>2</sup> )(ST)CY
Jacket, diameter:	7.6 mm
Jacket material:	S-PVC
Inner conductors:	2 x 0.25 mm <sup>2</sup> (AWG23)
Copper strands per conductor:	65 x 0.07 mm
Conductor insulation:	HD-PP 1.55 mm
Shielding:	Copper braiding tin-plated 95% + AL-fleece + filler strand
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.22 kWh
Weight per 1 m:	75 g
Packaging:	100 m spool, per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	46 pF
Capac. cond./shield. per 1 m:	90 pF
Cond. resistance per 1 km:	< 78 Ω
Shield. resistance per 1 km:	< 10 Ω
Insulat. resistance per 1 km:	> 200 MΩ
Surge impedance:	110 Ω (±2%)

COLOR  
■ black

ORDER NO.  
200-0281



x00009





## STUDIO MICROPHONE CABLE

BALANCED, QUAD CABLE, CROSSOVER, STUDIO

### SC-SQUARE 4-CORE MKII HIGHFLEX

MOBILE STUDIO INSTALL HIFI  
ANALOG OFC



Sectional drawing

#### The Tonemeister ...

sets the tone, and our cable sets the standard. The **SC-SQUARE** is an exceptional microphone cable that goes above and beyond expectations. Two wires are paired for optimum sound. This improves the crosstalk behavior. In studios, the cable is primarily used to provide phantom power or for noise suppression (for noise reduction a crosswise connection should be used, i.e. opposite wires **RED/WHITE** and **BLUE/YELLOW** are paired). A dense copper spiral shielding and an additional metallic fleece foil ensure superior protection. Because of its sophisticated design, this cable is also frequently found in discerning hi-fi studios where it delights the ear with its smooth linear response.

If you don't want to make any sonic or electrical compromises in the studio, then this is your cable!

For the 4-wire miniature version, see the chapter AES/EBU cables.

FREE SAMPLE AVAILABLE!

Ø mm  
**6.5**

Shielding  
**100%**

mm<sup>2</sup>  
**4x0.20**

By the way, we are  
a member of ...



#### APPLICATIONS:

- Professional studio and microphone technology
- Connection of effects units and control devices requiring a return signal
- Professional MIDI technology, transfer cable
- Audiophile interconnects for hi-fi

#### PRODUCT ADVANTAGES:

- Outstanding noise-rejection when each pair of opposing conductors are terminated together
- Suitable as a phantom power supply and stereo cable due to its two extra conductors
- Very good signal fidelity and linear response
- Extreme ruggedness and tensile strength due to the thick PVC jacket
- 100% shielding consisting of dense copper spiral stranded wrap plus additional layer of metallic fleece foil

#### TECHNICAL DATA

Construction:	(4LI2Y0.20 mm <sup>2</sup> )(ST)DY
Jacket, diameter:	PVC 6.5 mm
Inner conductors:	4 x 0.20 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	102 x 0.05 mm
Conductor insulation:	PE
Shielding:	Copper spiral shielding tin-plated + conductive fleece-foil
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.22 kWh
Weight per 1 m:	53 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF (39 pF crossover)
Capac. cond./shield. per 1 m:	120 pF
Cond. resistance per 1 km:	< 98 Ω
Shield. resistance per 1 km:	< 20 Ω
Insulat. resistance per 1 km:	> 200 MΩ
Surge impedance:	< 95 Ω

#### COLOR

- black
- black, without imprint

#### ORDER NO.

**200-0301**  
**200-0301NE**



x00011



## STUDIO MICROPHONE CABLE

BALANCED, 7-WIRE, FOR TUBE MICROPHONES

### SC-OCTAVE TUBE

STUDIO INSTALL  
ANALOG OFC



Sectional drawing

#### Great flexibility ...

is found with our **SC-OCTAVE TUBE**, which has been custom-designed to connect tube microphones with their power supplies, or remote-controlled studio microphones with their control units. It has a total of seven conductors, two for the supply voltage and the others for switching between directivity patterns, sensor (measuring) line, heating, and the voltage supply for the tube capsule. These five conductors consist of 72 superfine 0.05 mm/AWG44 single wires and are responsible for linear response and a high degree of flexibility.

Since its combination of copper spiral shielding and AL fleece provides 100% coverage, the **SC-OCTAVE TUBE** is perfectly protected against all kinds of interference.

It is ideal for connecting Neumann, BPM, or Schoeps microphones.

FREE SAMPLE AVAILABLE!

Ø mm  
**6.5**

Shielding  
**100%**

mm<sup>2</sup>  
**5x0.14**  
**+2x0.50**

#### APPLICATIONS:

- Connection for tube microphones
- Also usable as a high-quality control line

#### PRODUCT ADVANTAGES:

- Audio and power signal in one cable
- 100% protection from interference
- High-quality, linear transmission
- Highly flexible

#### TECHNICAL DATA

Construction:	(5LI2Y0.14 mm <sup>2</sup> +2LI2Y0.50 mm <sup>2</sup> )(ST)DY
Jacket, diameter:	PVC 6.5 mm
Inner conductors:	5 x 0.14 mm <sup>2</sup> (audio) (AWG26) 2 x 0.50 mm <sup>2</sup> (control) (AWG20)
Copper strands per conductor:	72 x 0.05 mm (audio) 64 x 0.10 mm (control)
Conductor insulation:	PE
Shielding:	Copper spiral shielding tin-plated+ AL-fleece
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.20 kWh
Weight per 1 m:	58 g
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	69 pF
Capac. cond./shield. per 1 m:	120 pF
Cond. resistance per 1 km:	140 Ω (audio), 39 Ω (control)
Shield. resistance per 1 km:	< 17 Ω
Insulat. resistance per 1 km:	> 200 MΩ

#### COLOR

- dark grey

#### ORDER NO.

**200-0186**



x00012

## MICROPHONE CABLE AES/EBU 110 Ω, TRANSVERSELY WATERTIGHT

SALTWATER-RESISTANT, HALOGEN-FREE, 110 Ω AES/EBU

### SC-AQUA MARINEX MICRO

STAGE  
  MOBILE  
  INSTALL  
  ELA  
 ANALOG  
  DIGITAL  
  AQUA  
  HALOGEN-FREE  
  PUR

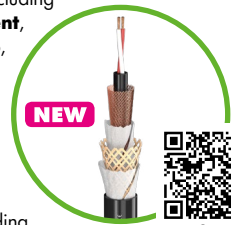


Sectional drawing

*Shower singers will be happy ...*

about the new **AQUA MARINEX microphone cable** for permanent underwater use. The **AQUA MARINEX** microphone and AES/EBU cable is the standard installation cable in wet areas such as aquaparks and on boats. It ensures excellent audio signal transmission, and enables the triggering of visual effects. Particularly for long-term events such as lake night festivals, Christmas markets, sporting events, in the theater sector or OB vans, the **AQUA MARINEX** provides an ideal connection. To handle great water pressure and minimize mechanical stress and electrical interference, we have stabilized the wires internally and fitted the cable with two tight copper braidings which are insulated against each other. For safety purposes, one screen can be tied to the shell of the XLR connector. The cable is a bit stiffer than conventional PVC cables, on the one hand, but almost indestructible on the other.

**MICRO 14**, 2 x 0.14 mm<sup>2</sup>, including **ARAMID reinforcement**, see webshop, Order No.: 200-0131AQ



x01713

#### APPLICATIONS:

- Maximum water depth of 50 m/160 ft. (MICRO 25)
- Demanding outdoor installation
- Digital control of visual effects
- Installation and usage near the coast and in shipbuilding
- Indoor and outdoor installation in leisure parks and on boats

#### PRODUCT ADVANTAGES:

- Saltwater and freshwater-resistant black and white outer jacket
- 110 Ω wave impedance, AES/EBU, DMX512
- Transversely watertight due to water-absorbing, pressure-compensating protective banding
- Cold-flexible and reelable
- UV-resistant and anti-microbial
- Shielded by two tight copper braidings, isolated from one another (MIKRO 25)

#### TECHNICAL DATA

	<b>MICRO 14</b>	<b>MICRO 25</b>
Jacket, diameter:	PUR-SR 4.6 mm	PUR-SR 7.2 mm
Inner conductors:	2 x 0.14 mm (AWG26)	2 x 0.25 mm <sup>2</sup> (AWG23)
Copper strands per conductor:	18 x 0.10 mm	32 x 0.10 mm
Conductor insulation:	PVC 1.1 mm	PUR 1.6 mm
Shielding:	Cu spiral + special protective banding	2 x Cu spiral + special protective banding
Shielding factor:	95%	95%
Temperature range:	-40°C...+80°C	-40°C...+80°C
Max. water pressure:	2 bars	5 bars
Max. water depth:	20 m	50 m
Fire load per m:	0.18 kWh	0.27 kWh
Weight per 1 m:	30 g	65 g
Packaging:	per m	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF	50 pF
Capac. cond./shield. per 1 m:	190 pF	190 pF
Cond. resistance per 1 km:	141 Ω	78 Ω
Shield. resistance per 1 km:	29.1 Ω	29.1 Ω
		23.8 Ω
Insulation resist. per 1 km:	1 GΩ	1 GΩ
Surge impedance:	110 Ω ± 3%	110 Ω ± 3%

#### COLOR

- white, PUR-SR 14
- black, PUR-SR 14
- black, PUR-SR 25

#### ORDER NO.

- 200-0140AQ**
- 200-0141AQ**
- 200-0241AQ**



x00010

## MICROPHONE CABLE ARAMID HIGHTEMP / AES/EBU 110 Ω

BALANCED, WITH ARAMID STRAIN RELIEF, -20°C ... +110°C

### TEMPOFLEX MICROPHONE

STAGE  
  MOBILE  
  INSTALL  
  ELA  
 ANALOG  
  DIGITAL  
  HALOGEN-FREE  
  OFC  
  ARAMID



*Grab a vine, Jane ...!*

Tarzan used vines to swing from tree to tree. Many clever stage technicians would use mic cables to let the mics dangle from the truss. As a cable manufacturer we approach the idea of dangling microphones as a special challenge. So we have developed a rugged microphone cable, tailor-made for use on all stages of the world. Perfect for the theater, musical backdrops and big live events.

Take a pair of conductors with thin 0.34 mm<sup>2</sup>/AWG22 copper stranded wires, braid several aramid strain relief elements around them and jacket the whole thing with a special TPE SP moulded sheath (Ø 7.3 mm/0.287") – and here it is, the microphone liana. This construction makes the cable sturdy, but how about its flexibility? Using a tinned copper mesh with dual-sided coating, we braided the shielding at an angle optimized for movement so that it spools easily on a cable reel, making it just as suitable for the daily rigors of the road as it is for permanent installations. The **TEMPOFLEX MICROPHONE** withstands temperatures between -20 °C and +110 °C / -4 °F and +230 °F.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- For rope winches at the theater
- Demanding stage applications
- Permanent installations (outdoor areas)

#### PRODUCT ADVANTAGES:

- Integrated Aramid strain relief elements
- Extremely heat-proof up to +110°C / +230°F
- High number of bending cycles, easy to reel
- AES/EBU-compliant

#### TECHNICAL DATA

Construction:	(2L)2X0.34 mm <sup>2</sup> +2(ZN)2X)18YC18YC
Jacket, diameter:	TPE 7.3 mm
Inner conductors:	2 x 0.34 mm <sup>2</sup> (AWG22)
Copper strands per conductor:	42 x 0.10 mm
Conductor insulation:	Cross linked Polyolefin
Shielding:	Copper braided shield., tin-plated, with 0.10 mm indiv. strand
Shielding factor:	95 %
Temperature range:	-20°C...+110°C
Fire load per m:	0.45 kWh
Max. strain relief:	25 kg
Weight per 1 m:	59 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	50 pF
Capac. cond./shield. per 1 m:	90 pF
Cond. resistance per 1 km:	62 Ω
Shield. resistance per 1 km:	14 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	110 Ω

#### COLOR

- black

#### ORDER NO.

- 200-0051T**



x00013

## MICROPHONE CABLE ARAMID DUO, AES/EBU

BALANCED, TWIN CABLE, WITH ARAMID STRAIN RELIEF

### SC-MICRO DUO ARAMID

STAGE
  MOBILE
  STUDIO
  INSTALL  
 ANALOG
  DIGITAL
  OFC
  ARAMID



*All good things come from above ...*

Unless it's a falling microphone! To avoid future collateral damages at concert recordings, Sommer cable has developed the new twin-pair **SC-MICRO DUO ARAMID**. It's the perfect solution for surround and multi-channel recordings, especially when the microphone is hanging from the ceiling or the cable is exposed to strong tensile forces. To absorb the weight of the microphones, fillers made of braided aramid fibers have been incorporated as an extra strain relief. Compared to a steel rope, these have no negative impact on the electrical properties (e.g. the damping). Thus the **SC-MICRO DUO ARAMID** shines with a low capacitance, it is AES/EBU- and DMX-compliant (110 ohms) and, due to its concentrically braided OFC wires, ensures an optimized, neutral transmission.

**FREE SAMPLES AVAILABLE!**  
Sectional drawing see website.

STRONG  
SPVC

Ø mm  
**8.5**

Shielding  
**95%**

mm<sup>2</sup>  
**2x0.14**

#### APPLICATIONS:

- High-quality microphone cable for surround recordings (ceiling mount)
- High-quality cable for studio connections
- Robust cable for audio looms and line wirings

#### PRODUCT ADVANTAGES:

- Aramid reinforcement for additional strain relief
- Highly flexible, cold-flexible and easy to reel
- Also available in a neutral version (w/o overprint): 200-0171NE
- Very low capacitance

#### TECHNICAL DATA

Construction:	[2(2LI2Y0,14 mm <sup>2</sup> )DY] + [2(ZN)Y](ST)Y
Jacket, diameter:	S-PVC 8.5 mm, ARAMID reinforced
Inner conductors:	2 x 2 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	36 x 0.07 mm
Conductor insulation:	1.2 mm foam/skin PE
Shielding:	Tinned helical copper mesh per pair
Shielding factor:	> 95 %
Max. tensile strength:	100 kg (total) / 30 kg (per bundle)
Temperature range:	-20 °C ... +70 °C
Fire load per m:	1.16 kWh
Weight per 1 m:	76.8 g
Packaging:	Bulkware

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	51 pF
Capac. cond./shield. per 1 m:	101 pF
Cond. resistance per 1 km:	135 Ω
Shield. resistance per 1 km:	38 Ω
Insulat. resistance per 1 km:	200 MΩ
Surge impedance:	110 Ω

#### COLOR

- black
- schwarz, without imprint

#### ORDER NO.

**200-0171** **NEW**  
**200-0171NE** **NEW**



## PATCH AND MICROPHONE CABLE ARAMID, AES/EBU

4-WIRE, BALANCED, WITH ARAMID STRAIN RELIEF

### SC-SEMICOLON 4 ARAMID AES/EBU

STAGE
  MOBILE
  STUDIO
  INSTALL  
 ANALOG
  DIGITAL
  PUR
  HALOGEN-FREE
  FRNC
  ARAMID

*When everything's hanging by a thread ...*

It will certainly make the sound engineer pretty nervous. Especially if the cable shall be used as the only support for a microphone, and no other safeguard is possible. To spare the tech from sleepless nights, **SOMMER CABLE** has developed a compact and durable version of an AES/EBU- and DMX-compliant microphone cable with an extra ARAMID fiber mesh worked into the outer jacket.

The ARAMID serves as an additional strain relief, greatly increases the number of bending cycles and turns this rather compact and inconspicuous microphone cable into a dependable workhorse which can take quite a lot in practical use. This design is particularly popular in broadcast and theater engineering, in connection with belt pull cable drums in OB vans or on theater stages.

**FREE SAMPLES AVAILABLE!**  
Sectional drawing see website.

Ø mm  
**5.7**

Shielding  
**90%**

mm<sup>2</sup>  
**4x0.14**

#### APPLICATIONS:

- Professional theater and radio or broadcasting technology
- Connections between effects devices and control units where a return signal is required
- Industrial and medical engineering
- Professional MIDI technology
- Controlling of light and scanner systems and displays

#### PRODUCT ADVANTAGES:

- Robust and durable microphone cable with high bending cycles due to the integration of a tight aramid braid in the outer jacket
- Compact and therefore space-saving

#### TECHNICAL DATA

Construction:	(4LI2Yx0.14 mm <sup>2</sup> ) + (2(ZN)Y)(ST)DY
Jacket, diameter:	PUR 5.7 mm, ARAMID reinforced
Inner conductors:	4 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	18 x 0.10 mm
Conductor insulation:	PE 1.2 mm
Shielding:	Tinned helical copper mesh
Shielding factor:	90 %
Max. tensile strength:	1400 N / 140 kg
Temperature range:	-40 °C ... +80 °C
Fire load per m:	0.18 kWh
Weight per 1 m:	40 g
Packaging:	100 m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF
Capac. cond./shield. per 1 m:	80 pF
Cond. resistance per 1 km:	< 140 Ω
Insulat. resistance per 1 km:	> 500 MΩ
Surge impedance:	110 Ω

#### COLOR

- black

#### ORDER NO.

**520-0151** **NEW**





## PATCH AND MICROPHONE CABLE

BALANCED, LEMO-COMPATIBLE

### SC-SCUBA 14 HIGHFLEX

STUDIO

ANALOG OFC



Sectional drawing

*Through thick and thin ...*

the new **SC-SCUBA 14 HIGHFLEX** will be right by your side. It is very thin, space-saving, flexible and ideally suited for connectors with a small diameter (LEMO patchboards, mini phone plugs, RCA, etc.). This makes it perfect for patch cables and rack cabling.

Their diameter and wire construction have been designed in accordance with broadcast standards and a dense copper braiding with 90% shielding coverage protects the cable from interference.

For easy identification we offer the **SC-SCUBA 14 HIGHFLEX** in five different jacket colors.

**FREE SAMPLES AVAILABLE!**

Ø mm  
**3.8**

Shielding  
**90 %**

mm<sup>2</sup>  
**2x0.14**

#### APPLICATIONS:

- Patch cabling (LEMO), gooseneck microphone cable
- Home recording
- Rack and console cabling

#### PRODUCT ADVANTAGES:

- Very thin, high tensile strength and flexibility
- Available in five different colors
- Good shielding due to dense copper braided shielding
- Very reasonable price

#### TECHNICAL DATA

Construction:	(2LI2Y0.14mm <sup>2</sup> )CY
Jacket, diameter:	PVC 3.8 mm
Inner conductors:	2 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	18 x 0.10 mm
Conductor insulation:	PE 1.15 mm
Shielding:	Copper braiding with 0.10 mm indiv. strand tin-plated
Shielding factor:	90%
Temperature range:	-25°C...+70°C
Fire load per m:	0.09 kWh
Weight per 1 m:	25 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF
Capac. cond./shield. per 1 m:	130 pF
Cond. resistance per 1 km:	< 135 Ω
Shield. resistance per 1 km:	< 30 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	approx. 100 Ω

COLOR	ORDER NO.
■ black	<b>200-0311</b>
■ red	<b>200-0313</b>
■ green	<b>200-0314</b>
■ grey	<b>200-0316</b>
■ yellow	<b>200-0317</b>



x00014

## PATCH AND MICROPHONE CABLE

BALANCED, TT-PHONE ETC.

### SC-GOBLIN

STUDIO INSTALL

ANALOG OFC



Sectional drawing

*Not less, but thinner ...*

and because it is available in five colors, it is easy to identify. Otherwise, the technical and electrical construction is similar to the **SC-SOURCE**.

Due to the small diameter, it fits almost all current TT-phone and B-gauge connectors and can also be used for a Y-adapter cable. Based on the carefully constructed shielding, the cable also has the additional positive benefits of enormous compression resistance and tensile strength. The white version is suitable for inconspicuous installation in churches. If needed, now also available w/o overprint.

**FREE SAMPLES AVAILABLE!**

STRONG  
SPVC

Ø mm  
**4.6**

Shielding  
**100 %**

mm<sup>2</sup>  
**2x0.14**

STRONG  
SPVC

Ø mm  
**4.6**

Shielding  
**100 %**

mm<sup>2</sup>  
**2x0.14**

#### APPLICATIONS:

- Professional studio patchbay interconnects
- High-quality mini microphone cable
- Audiophile phono and RCA connections
- Lengthy MIDI cabling
- Interior rack wiring and connection of audio components and effects devices

#### PRODUCT ADVANTAGES:

- Ideal for patch cables, owing to its small outside diameter of 4.6 mm/0.181"
- Very good tensile strength due to the dual shielding construction and special PVC jacket
- Linear frequency response due to the special design of conductor pairs and copper wire stranding
- 100% shielding from metallized fleece plus additional copper spiral shielding

#### TECHNICAL DATA

Construction:	(2LI2Y0.14mm <sup>2</sup> )(ST)DY
Jacket, diameter:	PVC 4.6 mm
Inner conductors:	2 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	18 x 0.10 mm
Conductor insulation:	PE 1.05 mm
Shielding:	Copper spiral sleeve tin-plated + metallic fleece
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.10 kWh
Weight per 1 m:	27 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF
Capac. cond./shield. per 1 m:	120 pF
Cond. resistance per 1 km:	< 140 Ω
Shield. resistance per 1 km:	30 Ω
Insulat. resistance per 1 km:	> 200 MΩ

COLOR	ORDER NO.
■ black	<b>200-0351</b>
■ blue	<b>200-0352</b>
■ red	<b>200-0353</b>
■ icy grey	<b>200-0356</b>
□ white	<b>200-0350</b>
□ white, without imprint	<b>200-0350NE</b> <b>NEW</b>



x00015



## PATCH AND MICROPHONE CABLE

BALANCED, HIGHLY FLEXIBLE

### SC-CICADA SO-D14

⊗ INSTALL

ANALOG PUR OFC

PMB  
PUR MASTER BLEND



Sectional drawing

*This midjet ...*

with its 2.6 mm/0.102" diameter, fits through almost any small space. We originally developed the **SC-CICADA SO-D14** as a high-quality cable for the internal wiring of racks and audio equipment. However, after extensive testing by various microphone manufacturers who were quick to realize the excellent technical and electrical values of this cable, the **SC-CICADA** can now be found on many clip and ear microphones, headphone sets and speaker units. Notably appreciated, is the extremely high flexibility, the dense spiral shielding, and the pre-twisted and tinned drain wire on the **SC-CICADA SO-D14**, all of which give the cable additional protection against bending and tearing.

If you are a manufacturer of high-quality audio components, wire your devices with this cable! Its low noise and shielding makes it just great!

**Comes with an abrasion-proof, cold-resistant PUR jacket!**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**2.6**

Ø mm  
**2.6**

Shielding  
**95%**

Shielding  
**95%**

mm<sup>2</sup>  
**2x0.14**

mm<sup>2</sup>  
**2x0.14**

#### APPLICATIONS:

- Interior wiring of mixing consoles, racks, and other audio components
- Flexible cable for clip-on microphones, earphones, speaker units, etc.
- Assembly of adapter cables

#### PRODUCT ADVANTAGES:

- Highly flexible because of its fine, single strand design
- Easy to handle, owing to the extra drain wire (0.22 mm<sup>2</sup>/AWG26)
- Superb coverage due to the tight spiral shielding with 95 % coverage
- Durable and abrasion-proof due to the rugged PUR jacket

#### TECHNICAL DATA

Construction:	(2LI2Y0.14 mm <sup>2</sup> )DY
Jacket, diameter:	PUR Master-Blend 2.6 mm
Inner conductors:	2 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	18 x 0.10 mm
Cond. insulation:	PE 0.90 mm
Shielding:	Copper spiral shielding + filler strand, tin-plated (0.22 mm <sup>2</sup> )
Shielding factor:	95%
Temperature range:	-30°C...+70°C
Fire load per m:	0.08 kWh
Weight per 1 m:	13 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF
Capac. cond./shield. per 1 m:	120 pF
Cond. resistance per 1 km:	< 148 Ω
Shield. resistance per 1 km:	30 Ω
Insulation resist. per 1 km:	> 1 GΩ

#### COLOR

- black, PUR, 2-wire
- white, without imprint

#### ORDER NO.

**200-0451**  
**200-0450NE NEW**



Ⓜ x00018



## PATCH AND MICROPHONE CABLE

BALANCED, 4-WIRE, CROSSOVER, HIGHLY FLEXIBLE

### SC-CICADA 4

⊗ INSTALL

ANALOG PUR OFC

PMB  
PUR MASTER BLEND



Sectional drawing

*Maybe the smallest "star quad" of all times ...*

is called **SC-CICADA 4** with an outer diameter of only 3.4 mm. Technically this cable is based on the very successful **SC-CICADA SO-D14** variant, but instead of two it has four wires arranged in a star formation, yet remains just as flexible and high-performing. When connected in crossover mode, this version delivers quite outstanding electrical values, especially compared with conventional microphone cables. Like the **SI-CICADA SO-D14**, the **SC-CICADA 4** has a robust, notch-resistant and sweat-absorbing PUR Master-Blend outer jacket – perfect for wiring up fitness gyms –, a tight helical mesh screen with 95 % coverage and an additional pre-stranded drain wire which greatly simplifies the cable assembly and gives it an extra sleeve support and a high breaking strength.

The **SC-CICADA 4** is the perfect microphone cable for use with mini XLR connectors, for fully wired MIDI and DIN cables or as a compact patch cable. We recommend it e.g. for the internal wiring in racks or audio components, as a feed line for clip or ear microphones or for manufacturing high-quality adapter cables.

**FREE SAMPLES AVAILABLE!**

Ø mm  
**3.4**

Shielding  
**95%**

mm<sup>2</sup>  
**4x0.14**

#### APPLICATIONS:

- Internal wiring of mixing consoles, racks and other audio components
- Connection of mini XLR, mini jacks, fully wired MIDI and DIN cables
- Flexible cable for clip microphones, earphones, voice units etc.
- Production of adapter cables

#### PRODUCT ADVANTAGES:

- Very flexible due to fine CU litz wire design
- Easy handling due to additional drain wire (0.22 mm<sup>2</sup>)
- Excellent shielding due to tight helical mesh screen with 95 % coverage
- Durable and notch-resistant due to sturdy PUR jacket

#### TECHNICAL DATA

Construction	(4LI2Yx0,14 mm <sup>2</sup> )D11Y
Jacket, diameter	PUR Master-Blend 3.4 mm
Inner conductors	4 x 0.14 mm <sup>2</sup> (AWG26)
Cu litz wires per wire	18 x 0.10 mm
Conductor insulation	PE 0.10 mm
Shielding	Helical mesh + drain wire, tinned (0.22 mm <sup>2</sup> )
Optical coverage	95 %
Temperature range	-25 °C ... +70 °C
Calorific potential / m	0.08 kWh
Weight / m	20 g
Packaging, P.U.	100 m

#### ELECTRICAL DATA

Wire-to-wire capacitance / 1 m:	75 pF
Wire-to-screen capacitance / 1 m:	140 pF
Conductor resistance / 1 km:	145 Ω
Screen resistance / 1 km:	39 Ω
Insulation resistance / 1 km:	1 GΩ

#### COLOR

- black

#### ORDER NO.

**200-0461 NEW**



Ⓜ x01661

## PATCH AND MICROPHONE CABLE

BALANCED, TWIN STRAND, AES/EBU

### SC-PEACOCK MKII

STAGE 
  STUDIO 
  INSTALL  
 ANALOG 
  DIGITAL 
  OFC



Sectional drawing

### Side by side ...

two pairs of conductors fit into two plugs. Or into three – or why not even four? You can do a lot with this cable. But primarily it will be used as a stereo cable for microphones and for manufacturing RCA and Y-patch cables.

Each of its wire pairs are protected individually by a tight spiral shielding with 95% coverage, and can be separated at any time.

The single line will fit into every 1/4" plug, XLR, and RCA plug.

**For round cables see multicores, e.g. SC-MISTRAL and SC-QUANTUM HIGHFLEX.**

**FREE SAMPLES AVAILABLE!**



STRONG  
SPVC

mm  
4.5x9.2

Shielding  
95%

mm<sup>2</sup>  
2x2x0.22

#### APPLICATIONS:

- Wiring of stereo microphones
- Assembly of insert cables

#### PRODUCT ADVANTAGES:

- Highly flexible due to the use of a soft, cold-resistant PVC jacket
- Multiple applications, as the individual wires can be separated at any time

#### TECHNICAL DATA

Construction:	[2(2LI2Y0.22 mm <sup>2</sup> )DY]Y
Jacket, outer dimension:	S-PVC 4.5 x 9.2 mm
Inner conductors:	2 x 2 x 0.22 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	28 x 0.10 mm
Conductor insulation:	Foam/Skin-PE 1.3 mm
Shielding:	Copper spiral shielding
Shielding factor:	95%
Temperature range:	-30°C...+70°C
Fire load per m:	0.18 kWh
Weight per 1 m:	49 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	70 pF
Capac. cond./shield. per 1 m:	125 pF
Cond. resistance per 1 km:	< 90 Ω
Shield. resistance per 1 km:	36 Ω
Insulat. resistance per 1 km:	> 500 MΩ
Surge impedance:	110 Ω

COLOR	ORDER NO.
■ black	<b>200-0551</b>
■ blue	<b>200-0552</b>



x00016

## PATCH CABLE

BALANCED, INTERNAL WIRING

### SC-ISOPOD SO-F22 + SO-F50

INSTALL  
 ANALOG 
  DIGITAL 
  FRNC 
  OFC



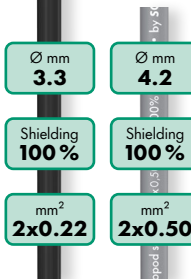
Sectional drawing

### The cable with a memory ...

keeps things tidy. Switchboards and racks often look like spaghetti – urgently in need of organization. The **SC-ISOPOD SO-F** is a 2-wire, foil-screened cable with a compact outer diameter of 3.3 mm/0.13" (SO-F22) or 4.2 mm/0.165" (SO-F50). The cable is used primarily for the internal wiring of audio and hi-fi components. It has a "memory effect" and may be easily laid "around corners". The copper stranded wires of the individual wire pairs are already pre-stranded and may be stripped very easily. For a simpler connection, the cable has an extra pre-twisted and tinned drain wire. It is shielded by an AL/PT foil which will automatically stick to the jacket when stripping it down. The **SC-ISOPOD SO-F50** has a larger wire cross-section (2 x 0.50 mm<sup>2</sup>/AWG21) for crimp contacts. The **SC-ISOPOD SO-F22D** has a wave impedance of 110 Ω.

(Order No. 500-0406)

**FREE SAMPLES AVAILABLE!**



Ø mm  
3.3

Ø mm  
4.2

Shielding  
100%

Shielding  
100%

mm<sup>2</sup>  
2x0.22

mm<sup>2</sup>  
2x0.50

#### APPLICATIONS:

- Internal wiring of racks, audio and hi-fi components

#### PRODUCT ADVANTAGES:

- Quick and easy to handle
- Robust plastic jacket for long life
- Easy to lay thanks to "memory effect"

#### TECHNICAL DATA

	SO-F22	SO-F50
Construction:	(2LI2Y0.22 mm <sup>2</sup> )(ST)Y	(2LI2Y0.50 mm <sup>2</sup> )(ST)Y
Jacket, diameter:	3.3 mm	4.2 mm
Inner conductors:	2 x 0.22 mm <sup>2</sup> (AWG 24)	2 x 0.50 mm <sup>2</sup> (AWG 21)
Copper strands per conductor:	7 x 0.20 mm	7 x 0.30 mm
Conductor insulation:	PE 1.12 mm; AES/EBU (110 Ω); PP 1.3 mm	PE 1.5 mm
Shielding:	AL/PT foil + filler strand, tin-pl.	AL/PT foil + filler strand, tin-pl.
Shielding factor:	100%	100%
Temperature range:	-25°C...+70°C	-25°C...+70°C
Fire load per m:	0.05 kWh	0.07 kWh
Weight per 1 m:	16 g	58 g
Packaging:	200 m spool	200 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	74 pF	100 pF
Capac. cond./shield. per 1 m:	143 pF	160 pF
Cond. resistance per 1 km:	88 Ω	39 Ω
Shield. resistance per 1 km:	75 Ω	75 Ω
Insulat. resistance per 1 km:	> 200 MΩ	> 200 MΩ

#### COLOR

COLOR	ORDER NO.
□ white (SO-F22)	<b>200-0400</b>
■ black (SO-F22)	<b>200-0401</b>
■ blue (SO-F22)	<b>200-0402</b>
■ red (SO-F22)	<b>200-0403</b>
■ green (SO-F22)	<b>200-0404</b>
■ orange (SO-F22)	<b>200-0405</b>
■ grey (SO-F22)	<b>200-0406</b>
■ yellow (SO-F22)	<b>200-0407</b>
■ violet (SO-F22)	<b>200-0408</b>
■ grey (SO-F50)	<b>201-0406</b>
■ grey (SO-F22D) 110 Ω	<b>500-0406</b>
★ black, (SO-F22F) FRNC	<b>200-0401F</b>



x00017



## INSTRUMENT CABLE

UNBALANCED, FINE STRANDING

### TRICONE MKII

STAGE 
  MOBILE 
  INSTALL 
  HI-FI  
 ANALOG 
  OFC



Sectional drawing

### Electric instrumentalists ...

will be delighted with this cable. The **TRICONE® MKII** is a flexible cable for guitar or keyboard, and equally appealing to the live musician, studio keyboardist and home recording artist. Because of its substantial wire gauge of 0.22 mm<sup>2</sup>/AWG24 and the fine single 0.10 mm/AWG38 wires, it is immune to cable breakage and can handle high bending cycles. It is very robust, easy to reel and very reasonably priced. When making cables, care should be taken to remove the conductive shielding (black PVC sheathing) from the insulation so that it won't touch the inner conductor.

**TRICONE®** is a protected and registered trademark of **SOMMER CABLE GmbH**.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**



#### APPLICATIONS:

- Dependable cable for live applications (guitar and keyboard)
- Economy-priced line or patch cable for the home recording artist

#### PRODUCT ADVANTAGES:

- Very robust due to the large wire cross-section and fine copper single stranded wires
- Good electrical values due to the Skin PE insulation
- 100% protection by dual shielding (copper spiral shielding + conductive carbon screen)
- High number of bending cycles

#### TECHNICAL DATA

Construction:	LI2Y(LS)DY 1x0.22 mm <sup>2</sup>
Jacket, diameter:	PVC 5.9 mm
Inner conductors:	1 x 0.22 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	28 x 0.10 mm
Conductor insulation:	Foam/Skin-PE 1.8 mm
Shielding:	Copper spiral shielding + semiconductor
Shielding factor:	100%
Temperature range:	-25°C...+60°C
Fire load per m:	0.26 kWh
Weight per 1 m:	42 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	< 85 pF
Cond. resistance per 1 km:	< 90 Ω
Insulation resist. per 1 km:	> 1 GΩ

#### COLOR

■ black	<b>ORDER NO.</b> 300-0021
■ black, without imprint	300-0021NE
■ blue	300-0022
■ red	300-0023
■ green	300-0024



x00019

## INSTRUMENT/GUITAR CABLE

UNBALANCED, FINE STRANDING

### TRICONE XXL

STAGE 
  MOBILE 
  STUDIO 
  INSTALL  
 ANALOG 
  OFC



Sectional drawing

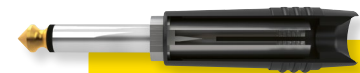
### A tricorne hat has three corners ...

and also the **TRICONE® XXL 1/4"** plug which you can configure yourself on the **TRICONE® XXL** cable without using a soldering iron. With the **TRICONE® XXL** set, it is not only possible to make your own guitar cables, instrument cables and patch cables very easily, but also repair them on site, if necessary, in record time. For detailed information, see the chapters "Ready-made Cables" and "Connectors".

The **TRICONE® XXL** has a considerable PE foam insulation which is firmly enclosed and held in place by a carbon screen. This will optimize the capacitance and ensure loss-free treble reproduction, even over longer distances. This design, and the copper spiral shielding, will perfectly protect against external interference.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**



**TRICONE® XXL 1/4" plug**  
for solderless DIY on-site assembly

#### APPLICATIONS:

- High-quality guitar lead for stage & studio
- Unbalanced cable for all string instruments, keyboards, samplers, mixing desks, etc.

#### PRODUCT ADVANTAGES:

- Powerful, clear sound transmission of any instrument signals
- Dual shielding by copper spiral and conductive carbon screen
- Highly flexible and easy to reel because of its fine single strand design
- Extremely durable and rugged due to LONGLIFE COMPOUND jacket

#### TECHNICAL DATA

Construction:	LI2Y(LS)CY 1x0.50 mm <sup>2</sup>
Jacket, diameter:	LLC (Long Life Compound) 5.9 mm
Inner conductors:	1 x 0.50 mm <sup>2</sup> (AWG20)
Copper strands per conductor:	28 x 0.15 mm
Conductor insulation:	Foam/Skin-PE 2.8 mm
Shielding:	Copper spiral tin-plated + semiconductor
Shielding factor:	100%
Temperature range:	-25°C...+60°C
Fire load per m:	0.27 kWh
Weight per 1 m:	44 g
Packaging:	100/500 m spool
Matching connector:	HI-J63TC-SM

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	< 85 pF
Cond. resistance per 1 km:	< 90 Ω
Insulation resist. per 1 km:	> 1 GΩ

#### COLOR

■ black	<b>ORDER NO.</b> 300-0271
■ blue	300-0272
■ red	300-0273
□ white	300-0270



x00020

## GUITAR CABLE HIGH-END

UNBALANCED, DOUBLE SHIELDING

## SC-SPIRIT

STAGE    MOBILE    STUDIO    INSTALL  
 ANALOG    OFC



Sectional drawing

Like a lasso ...

many guitar players just throw their cables around. That's why this cable in particular requires a sophisticated interior architecture that makes it crush-proof. Early in their career, many musicians end up spending more and more money on low-budget cables until they finally realize that cheap cables are only good enough to serve as a mediocre radio antenna, and fail to do justice to the rich sound spectrum of their expensive instruments. We have distanced ourselves from cheap products and offer a top-grade cable at a fair price. The **SC-SPIRIT** has thick insulation between the wire and shielding. This improves the capacitive values and ensures loss-free treble reproduction even with longer cables. To avoid crackling and hum, we use a special conductive carbon screen and a copper braided shield. When soldering, make sure that the carbon shield and the inner conductor do not touch. Your audience will be stunned at the sound of this cable!

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

FREE SAMPLES AVAILABLE!

STRONG  
SPVCØ mm  
7.0Shielding  
100%mm<sup>2</sup>  
1x0.50

## APPLICATIONS:

- High-quality guitar cable for studio and stage
- Unbalanced cable for keyboards, samplers, mixing desks, etc.
- Interconnect lead for CD/DVD player/recorder

## PRODUCT ADVANTAGES:

- Incredibly punchy and clear sound with bass, guitar and keyboard due to our special stranding and a wire cross-section of 0.50 mm<sup>2</sup>/AWG20
- Dual shielding by a combination of a braided shield plus conductive carbon screen
- Low-loss transmission due to low capacitance
- Very flexible and easy to reel because of its finely stranded design
- Extremely durable and sturdy due to a special high-quality PVC jacket compound
- Strain relief and good sleeve support due to thick PVC jacket

## TECHNICAL DATA

Construction:	LI2Y(LS)CY 1x0.50 mm <sup>2</sup>
Jacket, diameter:	PVC 7.0 mm
Inner conductors:	1 x 0.50 mm <sup>2</sup> (AWG20)
Copper strands per conductor:	19 x 0.18 mm
Conductor insulation:	Foam/Skin-PE 3.1 mm
Shielding:	Copper braided shield tin-plated + semiconductor
Shielding factor:	100%
Temperature range:	-30°C...+70°C
Fire load per m:	0.26 kWh
Weight per 1 m:	66 g
Packaging:	100 m spool

## ELECTRICAL DATA

Capac. cond./shield. per 1 m:	78 pF
Cond. resistance per 1 km:	39 Ω
Insulation resist. per 1 km:	> 1 GΩ

COLOR  
■ black

ORDER NO.  
300-0051



x00021

## GUITAR CABLE HIGH-END

UNBALANCED, DOUBLE SHIELDING

## SC-SPIRIT XXL

STAGE    MOBILE    STUDIO    INSTALL  
 ANALOG    OFC



Sectional drawing

Our endurance test champion ...

is the **SC-SPIRIT XXL**. This high-end guitar cable is one of our most successful products in recent years, rising to cult status both with guitarists and bassists. Owing to its excellent price-performance ratio, it has been awarded Test Champion several years in a row by the German and international trade press. The cable is sturdy yet flexible, while its smoke-colored jacket gives it a distinctive design. The shielding is ideal: the braiding offers 95% coverage, plus the lavish carbon screen (100%) protects against interference. A special lacquer finish makes the complex PE foam insulation very durable and helps preserve the excellent transmission properties for years to come. The large wire gauge of 0.75 mm<sup>2</sup>/AWG18 ensures a high signal level, even with long distances. Our customers describe the sound of the **SC-SPIRIT XXL** as crystal-clear, clean and very neutral. It excels at reproducing forceful bass attacks.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

FREE SAMPLES AVAILABLE!

STRONG  
SPVCØ mm  
6.8Shielding  
100%mm<sup>2</sup>  
1x0.75

## APPLICATIONS:

- High quality guitar and bass cable for studio and stage
- Unbalanced cable for keyboards, samplers, mixing consoles, etc.
- Interconnect lead for CD/DVD/BluRay player/recorder

## PRODUCT ADVANTAGES:

- Enormously powerful and clear sound image with bass, guitar and keyboard
- Dual shielding by a combination of a copper braided shield plus conductive carbon screen
- Low-loss transmission due to low capacitance and large wire gauge
- Very flexible and easy to reel because of its finely stranded design
- Extremely durable and sturdy due to a special high-quality PVC jacket compound

## TECHNICAL DATA

Construction:	LI2Y(LS)CY 1x0.75 mm <sup>2</sup>
Jacket, diameter:	transp. PVC 6.8 mm
Inner conductors:	1 x 0.75 mm <sup>2</sup> (AWG18)
Copper strands per conductor:	42 x 0.15 mm
Conductor insulation:	Foam/Skin-PE 3.1 mm
Shielding:	Copper braided shield tin-plated + semiconductor
Shielding factor:	100%
Temperature range:	-30°C...+70°C
Fire load per m:	0.26 kWh
Weight per 1 m:	52 g
Packaging:	100 m spool

## ELECTRICAL DATA

Capac. cond./shield. per 1 m:	86 pF
Cond. resistance per 1 km:	25 Ω
Insulat. resistance per 1 km:	> 50 MΩ

COLOR  
■ black, transparent

ORDER NO.  
300-0071



x00022

## HIGH END INSTRUMENT/GUITAR CABLE

UNBALANCED, DOUBLE SHIELDED

### SC-SPIRIT XS

STAGE
  MOBILE
  STUDIO
  INSTALL  
 ANALOG
  OFC



Sectional drawing

*You can't have everything ...*

in life. Well, almost. Many raving buyers of our **SC-SPIRIT XXL** guitar and instrument cable asked for a slightly more compact version of this legendary cable which should also fit into connectors with a smaller cable entry like e.g. angled jack plugs for stomp boxes or RCA connectors. Yet the **SC-SPIRIT XS** is not simply a slimmed-down version of the **SPIRIT XXL**, but one that's more adapted to the conditions. The cable diameter was reduced from 6.8 mm to 5.8 mm, but due to the high-grade gas-injected insulation and the large wire cross-section of 0.75mm<sup>2</sup>, its performance is practically still the same.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**5,8**

Shielding  
**90 %**

mm<sup>2</sup>  
**1x0.75**

#### APPLICATIONS:

- Compact guitar and bass cable for studio and stage
- Unbalanced cable for stomp boxes, keyboards, samplers, DJ mixing desks etc.

#### PRODUCT ADVANTAGES:

- Super powerful and clear sound image with bass, guitar and keyboard
- Double shielded by a copper braid and a conducting carbon screen
- Low-loss transmission despite compact outer dimensions
- Very flexible and easy to reel owing to the use of fine single litz wires
- Extremely durable and robust due to a special very high-grade PVC compound jacket

#### TECHNICAL DATA

Construction:	LI2Y(LS)CY 1 x 0.75 mm <sup>2</sup>
Jacket, diameter:	PVC 5.8 mm
Inner conductors:	1 x 0.75 mm <sup>2</sup> (AWG18)
Copper strands per conductor:	42 x 0.15 mm
Conductor insulation:	Foam/skin PE 3.1 mm
Shielding:	Tinned Cu braid + semiconductor
Shielding factor:	90 %
Temperature range:	-30 °C ... +70 °C
Fire load per m:	0.18 kWh
Weight per 1 m:	43 g
Packaging:	100 m

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	76 pF
Cond. resistance per 1 km:	25 Ω
Insulat. resistance per 1 km:	> 50 MΩ

#### COLOR

■ brown, transparent

#### ORDER NO.

**300-0061** **NEW**



■ x01662

## HIGH-END INSTRUMENT/AUDIO CABLE

UNBALANCED, DOUBLE SHIELDED, SILVER-PLATED

### SC-SILVER SPIRIT

STAGE
  MOBILE
  STUDIO
  INSTALL  
 ANALOG
  OFC



Sectional drawing

*When opinions differ ...*

... silver-plated audio cables are often a topic for discussion. From a purely technical point of view, this precious metal has the best electrical conductivity of all metals. As to their sonic impression, opinions on sense and nonsense of such cables often differ greatly. Here Sommer cable tries to shed a light into the darkness: those different opinions are because, due to the natural oxidation, silver is "alive". Unlike copper oxide, silver oxide is conductive, i.e. its electrical and mechanical properties can vary slightly over a longer period of time. This also causes alterations to the tone quality, which is why we can observe different audiophile impressions, and some musicians or hi-fi aficionados may perceive the sound of a silver cable as rather neutral, cool, or overly bright. We want to avoid such irritations and discussions, of course. Therefore we use only tightly concentrically stranded class 6N (OFC 99.9999 %) copper litz wires for our **SC-SILVER SPIRIT**, which are then refined and smoothed with the highest quality silver alloy (935/1000). That way they offer a constant performance and can be processed with silver solder neatly and without electrical losses. The **SC-SILVER SPIRIT** is equipped with the most up-to-date gas-injected and smoothed wire insulation.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**7,4**

Shielding  
**94 %**

#### APPLICATIONS:

- High-quality guitar/bass/instrument cable for studio and stage
- Unbalanced cable for keyboards, samplers, mixing consoles and hi-fi systems

#### PRODUCT ADVANTAGES:

- Extremely clear, pure sound image
- Permanently neutral transmission, even after frequent use
- Flexible and robust outer jacket of a temperature-resistant PVC compound
- Double shielding by a tight braid plus carbon semiconductor

#### TECHNICAL DATA

Construction:	LI2Y(LS)CY 1 x 0.22 mm <sup>2</sup>
Jacket, diameter:	PVC 7.4 mm
Inner conductors:	1 x 0.22 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	28 x 0.10 mm, silver-plated
Conductor insulation:	Foam/skin PE 3.5 mm
Shielding:	Tinned Cu braid + semiconductor
Shielding factor:	94 %
Temperature range:	-15 °C ... +65 °C
Fire load per m:	0.38 kWh
Weight per 1 m:	64.6 g
Packaging:	100 m

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	78 pF
Cond. resistance per 1 km:	41 Ω
Insulat. resistance per 1 km:	1 GΩ

#### ELECTRICAL DATA

■ black

**300-0011** **NEW**



■ x01663



## GUITAR/INSTRUMENT CABLE HIGH-END

UNBALANCED, DOUBLE-SHIELDED, GAS-INJECTED

### SC-SPIRIT BLACK ZILK

STAGE
  MOBILE
  STUDIO
  INSTALL  
 ANALOG OFC



Sectional drawing

*Any serious musician will ...*

rock with one of the most interesting guitar cables ever made. This soft, highly flexible guitar cable, with its very attractive finish, stands out with its outer and inner values. It is sheathed by a velvety, semi-transparent **BLACK ZILK** jacket (7.2 mm thick (0.283")), which glides on the floor as lightly as a feather. We use concentrically stranded wires of oxygen-free class N6 Chilean copper (OFC 99.9999%) and a GAS-INJECTED PE insulation, which ensures a low-loss, neutral transmission. The stranding angle of the shielding screen has been chosen with care so that hardly any friction will occur. Therefore, the cable has an extra long life.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**7.2**

Shielding  
**100 %**

mm<sup>2</sup>  
**1x0.25**

#### APPLICATIONS:

- High-end guitar cable for pure transmission, even over longer distances
- Perfect for unbalanced studio cabling

#### PRODUCT ADVANTAGES:

- Semi-transparent soft jacket design ensures a high number of bending cycles
- Gorgeous velvet look with soft-touch feel
- Double shielding by copper spiral and carbon semiconductor
- High bending cycles
- Zero-twist winding

#### TECHNICAL DATA

Construction:	L12Y(LS)DY 1x0.25 mm <sup>2</sup>
Jacket, diameter:	PVC 7.2 mm
Inner conductors:	1 x 0.25 mm <sup>2</sup> (AWG 24)
Copper strands per conductor:	32 x 0.10 mm
Conductor insulation:	Foam/Skin-PE
Shielding:	Copper spiral shielding + semiconductor
Shielding factor:	100%
Temperature range:	-30°C... +70°C
Fire load per m:	0.26 kWh
Weight per 1 m:	64 g
Packaging:	100 m

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	< 80 pF
Cond. resistance per 1 km:	< 90 Ω
Insulat. resistance per 1 km:	> 1 GΩ

#### COLOR

■ black, semi-transparent

#### ORDER NO.

**300-0351**



■ x00023

## GUITAR/INSTRUMENT CABLE "LOW-LOSS"

UNBALANCED, DOUBLE-SHIELDED, GAS-INJECTED

### SC-SPIRIT LLX „LOW LOSS“

STAGE
  MOBILE
  STUDIO
  INSTALL  
 ANALOG OFC



Sectional drawing

*Making the impossible come true ...*

When dealing with a new guitar cable, it involves creating extremely low capacitance together with breathtaking flexibility. Developing an insulation which ensures super low values by means of a gas-injected foaming is not an easy job, but well within the bounds of possibility for professional cable manufacturers. However, protecting this fragile insulation against motion, creasing and twisting as well, is indeed a true challenge.

With the **SPIRIT LLX "LOW-LOSS"** we have used the same insulation design as is used in professional HD-SDI video cables. For extra stability of the inner construction, we use an optimized concentric stranding and a special insulation cure on the surface. For the outer jacket we have applied a rubber-like soft PVC jacket, which is highly flexible, extremely compact, hardly stretches and protects the whole inner structure from exterior influences.

Due to its low capacitance and its very special construction, the **SPIRIT LLX "LOW-LOSS"** is one of the world's only ultra-low loss guitar cables.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**7.2**

Shielding  
**100 %**

mm<sup>2</sup>  
**1x0.38**

#### APPLICATIONS:

- Highly flexible cable for the demanding studio and live guitarist
- High-quality patch cabling for the professional studio
- High-end cable for the live DJ

#### PRODUCT ADVANTAGES:

- Extremely low capacitance values
- Robust, twist-proof and easy to reel
- Low-loss, detailed and neutral transmission properties
- Double shielding by copper braiding plus conductive carbon screen

#### TECHNICAL DATA

Construction:	L12Y(LS)CY 1x0.38 mm <sup>2</sup>
Jacket, diameter:	PVC 7.2 mm
Inner conductors:	1 x 0.38 mm <sup>2</sup> (AWG 21)
Copper strands per conductor:	19 x 0.16 mm
Conductor insulation:	Foam/Skin-PVC
Shielding:	Copper braiding + semiconductor
Shielding factor:	93%
Temperature range:	-30°C... +70°C
Fire load per m:	0.26 kWh
Weight per 1 m:	55 g
Packaging:	100 m
Matching plug:	HI-J63M03

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	< 52 pF
Cond. resistance per 1 km:	< 48 Ω
Insulat. resistance per 1 km:	> 1 GΩ

#### COLOR

■ black

#### ORDER NO.

**300-0091**



■ x00024

## GUITAR CABLE VINTAGE STYLE

UNBALANCED

### SC-CLASSIQUE

STAGE
  MOBILE
  STUDIO  
 ANALOG
  OFC



Sectional drawing

#### The good old times ...

For all those collectors of old guitars who can't part with anything, we now offer the perfectly matching cable.

And while the **SC-CLASSIQUE** may look old, its technology is new and fresh. The core is made up of an inside wire with a diameter of 0.50 mm<sup>2</sup>/AWG20. It's 28 individual fine copper strands ensure untainted musical pleasure at lengths of 20m/65 ft. Rounding off the cable is a thick insulation of foamed and lacquered PE and a dense, tinned copper braiding.

The eye-catching exterior is the extra textile cover which gives the **SC-CLASSIQUE** its requisite vintage styling. Plus it also sounds like a cable from the sixties: The **SC-CLASSIQUE** will win you over with its vintage warmth, rich sound and crystal-clear highs.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**



black-blue

black-white

Ø mm  
**6.5**

Shielding  
**100%**

mm<sup>2</sup>  
**1x0.50**

#### APPLICATIONS:

- High-end guitar and instrument cable with vintage sound and styling
- Unbalanced cable for stage and studio

#### PRODUCT ADVANTAGES:

- Warm and fat "sixties" sound
- Robust vintage style cloth jacket
- Very low capacitance and dual shielding (copper braiding + semiconductor)
- Easy to reel

#### TECHNICAL DATA

Construction:	LI2Y(LS)CY 1x0.50 mm <sup>2</sup>
Jacket, diameter:	PVC + fabric 6.5 mm
Inner conductors:	1 x 0.50 mm <sup>2</sup> (AWG20)
Copper strands per conductor:	28 x 0.15 mm
Conductor insulation:	Foam/Skin-PE 2.2 mm
Shielding:	Copper spiral tin-plated + semiconductor
Shielding factor:	100%
Temperature range:	-40°C...+80°C
Fire load per m:	0.26 kWh
Weight per 1 m:	54 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	78 pF
Cond. resistance per 1 km:	< 36 Ω
Insulat. resistance per 1 km:	> 10 MΩ

#### COLOR

- tweed-yellow
- black-white
- black-blue

#### ORDER NO.

- 300-0117**
- 300-0110**
- 300-0112**



■ x00025

## INSTRUMENT CABLE HIGH-END

TWO-CONDUCTOR, COPPER SHIELDING + STRAND

### COLONEL INCREDIBLE

STAGE
  MOBILE
  INSTALL  
 ANALOG
  OFC



Sectional drawing

#### Life in the wilderness ...

is hard and merciless. **SOMMER CABLE** has developed the **COLONEL INCREDIBLE** especially for this purpose! It is sturdy, flexible, strong and olive-green! This lets you and your cable adapt to the environment just perfectly. The **COLONEL INCREDIBLE** from our "OFFROAD SERIES" is a serious cable with killer specs and a wonderfully smooth frequency response. This high-end guitar cable features a technically optimized two-wire design. The **first wire** consists of concentrically stranded, silver-plated strands and is **shielded** by a dense copper braiding. Furthermore, a **second earth wire with red insulation** has been braided. This needs to be soldered to the mesh screen of the first wire.

**CAUTION:** To avoid impact noise, the soldering must be made according to this scheme.

The **COLONEL INCREDIBLE** is recommended for both demanding studio musicians and live musicians. Many professional musicians describe the sound as very punchy, clean and well-defined.

**FREE SAMPLES AVAILABLE!**

STRONG  
**SPVC**

Ø mm  
**7.2**

Shielding  
**100%**

mm<sup>2</sup>  
**2x0.35**

#### APPLICATIONS:

- A reliable cable for both live and studio use (guitar and keyboard)

#### PRODUCT ADVANTAGES:

- Very robust due to large wire gauge and fine single copper stranded wires
- Good electrical values due to dual-conductor construction

#### TECHNICAL DATA

Construction:	LI2Y(LS)DY 2x0.35 mm <sup>2</sup>
Jacket, diameter:	PVC 7.2 mm
Inner conductors:	2 x 0.35 mm <sup>2</sup> (AWG22)
Copper strands per conductor:	7 x 0.254 mm
Conductor insulation:	PE
Shielding:	Copper braiding, tin-plated
Shielding factor:	100%
Temperature range:	-20°C...+70°C
Fire load per m:	0.26 kWh
Weight per 1 m:	64 g
Packaging:	100 m/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	41 pF
Capac. cond./shield. per 1 m:	130 pF
Cond. resistance per 1 km:	55 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	78 Ω

#### COLOR

- olive green

#### ORDER NO.

- 300-008M**



■ x00026

## INSTRUMENT, HI-FI AF PHONO CABLE

UNBALANCED

### SC-CORONA

STUDIO  HIFI  
 ANALOG  OFC



Sectional drawing

### A real beauty ...

with impressively fine resolution. This is the new **SC-CORONA**, designed for systems that could use a little help in bringing out their full musical nature. Even hi-fi systems in the \$1,000 range will sound much happier with this interconnect, which our reviewers have lauded as "fast, clean and clear".

This enhanced sonic enjoyment derives from the coax construction with a large wire cross-section and phenomenal shielding by a dense copper mesh and carbon semiconductor.

Its low capacitance might tempt many a musician to misuse the **SC-CORONA** as a good-sounding high-end guitar cable. Owing to its great flexibility and ease in winding, the **SC-CORONA** is an absolute insiders' tip among studio guitarists.

The **SC-CORONA** is an affordable cable with true high-fidelity character, or "hi-fi-nesse."

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**6.7**

Shielding  
**100%**

mm<sup>2</sup>  
**1x0.50**

#### APPLICATIONS:

- Connection of phono and car hi-fi systems
- High-end instrument and guitar cable

#### PRODUCT BENEFITS:

- Tightly stranded copper wire for clean and precise sound reproduction
- Extremely fast transient response and soundstage
- Upscale design that stands out
- 100% shielding made of dense copper mesh and carbon sheath

#### TECHNICAL DATA

Construction:	(LIHS09YHS 1x0.50 mm <sup>2</sup> )CY
Jacket, diameter:	PVC 6.7 mm
Inner conductors:	1 x 0.50 mm <sup>2</sup> (AWG20)
Copper strands per conductor:	28 x 0.15 mm
Conductor insulation:	PE
Shielding:	Copper braided shielding + semiconductor
Shielding factor:	100%
Temperature range:	-40°C...+80°C
Fire load per m:	0.25 kWh
Weight per 1 m:	55 g
Packaging:	50 m roll, per m

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	78 pF
Cond. resistance per 1 km:	< 36 Ω
Insulat. resistance per 1 km:	> 10 MΩ

#### COLOR

transparent

#### ORDER NO.

**800-0079**



**x00027**

## INSTRUMENT AND PATCH/AUDIO COMBO CABLE

1 x 0.22 mm<sup>2</sup>/AWG24 INSTRUMENT + 1 x (2 x 0.14 mm<sup>2</sup>/AWG26) PATCH/AUDIO

### TRICONE SYMASYM

STAGE  MOBILE  INSTALL  
 ANALOG  OFC



Sectional drawing

### Balanced or unbalanced ...

that is the question – or rather it isn't, with our **TRICONE SYMASYM**! Guitar players in particular have been asking us to make them a cable for the increasingly popular **piezo/electric guitars**. They want this cable to deliver the full crunch we have come to know and love, as well as the guitar's true acoustic sound. This opens up new sound options within a song. And since we are passionate musicians ourselves, we immediately buckled down to develop a cable combining the proven **TRICONE** and the compact, balanced **SC-CICADA** under a round PVC jacket (IEC 60332-1).

By the way, this cable can also carry the instrument signal and the **IN-EAR monitoring** signal in one line. Other possible applications are limited only by your imagination.

**With DIY assembly, please bear in mind that the black carbon screen (sitting on the white insulation) is conductive and must therefore be removed to avoid ground contact with the inner conductor.**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**11.3**

Shielding  
**100%**

#### APPLICATIONS:

- Instrument + In-ear system over one cable
- Guitars with electric/piezo multi-pickup system (standard magnetic pickups + bridge piezo)

#### PRODUCT ADVANTAGES:

- Unbalanced instrument line, plus balanced audio line in one cable
- Flexible round jacket for tough use on stage
- Easy handling owing to 2-in-1 design

#### TECHNICAL DATA

Construction:	1x0.22 mm <sup>2</sup> +1x(2x0.14 mm <sup>2</sup> )
Jacket, diameter:	total: PVC, 11.3 mm instrument: PVC, 4.6 mm audio: PMB, 2.6 mm
Inner conductors:	instrument: 1 x 0.22 mm <sup>2</sup> (AWG24) audio: 1 x 2 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	instrument: 28 x 0.10 mm audio: 18 x 0.10 mm
Conductor insulation:	instrument: Foam/Skin-PE 1.9 mm audio: PE 0.90 mm
Shielding:	video: Copper braiding + semiconductor audio: Copper spiral shielding + drain wire tin-plated
Shielding factor:	100%
Temperature range:	-25°C... +70°C
Fire load per m:	0.55 kWh
Weight per 1 m:	80 g
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	68 pF (audio)
Capac. cond./shield. per 1 m:	< 85 pF (instrument) / 120 pF (audio)
Cond. resistance per 1 km:	< 91 Ω (instrument) / < 136 Ω (audio)
Shield. resistance per 1 km:	30 Ω (audio)
Insulation resist. per 1 km:	> 1 GΩ (instrument + audio)

#### COLOR

black

#### ORDER NO.

**301-1101**



**x00028**



## HI-FI AF-PHONO CABLE

UNBALANCED

### SC-STRATOS

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  OFC



Sectional drawing

### Honesty pays off ...

sooner or later when you take a closer look at certain hi-fi cables after a few years of use. Even with a \$250 phono lead you may find a porous sleeve, shrunken insulation and oxidized copper. After all, most cables are constantly subjected to wilting waves of withering heat emanating from the transformer. Those cables not up to the task are often affected in relatively short order, degrading their physical form and electrical values. Not so with our **SC-STRATOS** audio cable, which we made sure matches the level of high-end systems not just electrically, but sonically. The **SC-STRATOS** sounds incredibly natural, airy, unobtrusive, and offers complete silence during musical breaks. With its multiple shielding (braiding + semiconductor), the **SC-STRATOS** is perfectly protected against electro-magnetic interference. For heat dissipation, we have braided special plastic fibers into the mesh and wrapped it in an extremely durable heat-proof jacket material. For increased conductivity, the copper stranded wires have a special smooth coating applied to the conductors. The **SC-STRATOS** has been insulated with a durable and microscopically fine PE/PP mixture. Ideal for audio interconnects between (SA)CD Blu-ray player, DAT/DVD recorder or preamp and power amp.

**FREE SAMPLES AVAILABLE!**



Ø mm  
**8.5**

Shielding  
**100%**

mm<sup>2</sup>  
**1x0.34**

#### APPLICATIONS:

- Audiophile interconnects
- High-end guitar cable

#### PRODUCT ADVANTAGES:

- Very natural and lively sound image
- Multiple shielding against AF and RF interference
- Reliably maintains electrical values over time
- Readily adapts to hi-fi components from different manufacturers

#### TECHNICAL DATA

Construction:	(LIHS09YHS 1x0.34 mm <sup>2</sup> )DY
Jacket, diameter:	PVC 8.5 mm
Inner conductors:	1 x 0.34 mm <sup>2</sup> (AWG22)
Copper strand per conductor:	7 x 0.25 mm
Conductor insulation:	PE/PP
Shielding:	Copper braided shielding + semiconductor
Shielding factor:	100%
Temperature range:	-20°C...+80°C
Fire load per m:	0.25 kWh
Weight per 1 m:	74 g
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	75 pF
Cond. resistance per 1 km:	< 53 Ω
Insulation resist. per 1 km:	> 1 GΩ

#### COLOR

■ slate

#### ORDER NO.

**800-0056**



■ x00029

## INSTRUMENT, PATCH, DIODE CABLE

UNBALANCED

### SC-ONYX TYNEE

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  OFC



Sectional drawing

### Inconspicuous and yet so important ...

are those little helpers which are built into almost every electrical appliance today. These small shielded instrument cables are also called "diode cables". They are the simpler version of instrument cables, like the ones used in professional audio technology. Since instrument cables for guitars are used in many different environments, they usually come doubly shielded with a copper spiral and a carbon sheath. In contrast, a diode cable just has a simple copper spiral shield – sufficient if the cable remains stationary, or is installed inside electrical equipment.

In the audio sector, diode cables are used to connect hi-fi components or as a budget keyboard cable, whereas in the electrical sector they are versatile enough to be used in an incredible number of applications. The **SC-ONYX TYNEE** is especially popular with product development teams, manufacturers and electronics hobbyists since it features tight stranding, a high quality copper (OFC class 6) and a very durable jacket compound.

**FREE SAMPLES AVAILABLE!**

Ø mm  
**4.0**

Shielding  
**95%**

mm<sup>2</sup>  
**1x0.22**

#### APPLICATIONS:

- Cabling of unbalanced devices (e.g., keyboards)
- Connecting cable for hi-fi components
- Assembly of Y-adaptor cables
- Assembly of insert cables
- Interior wiring of electrical appliances

#### PRODUCT ADVANTAGES:

- Very flexible because of its finely stranded design
- Small jacket diameter enables easy termination with RCA and TS plug connectors
- Durable jacket compound and oxygen-free copper (OFC class 6)

#### TECHNICAL DATA

Construction:	LI2YDY 1x0.22 mm <sup>2</sup>
Jacket, outer dimension:	PVC 4.0 mm
Inner conductors:	1 x 0.22 mm <sup>2</sup> (AWG24)
Copper strand per conductor:	7 x 0.20 mm
Conductor insulation:	PE
Shielding:	Copper spiral shielding
Shielding factor:	95%
Temperature range:	-20°C...+70°C
Fire load per m:	0.12 kWh
Weight per 1 m:	18 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	125 pF
Cond. resistance per 1 km:	< 85 Ω
Insulation resist. per 1 km:	> 1 GΩ

#### COLOR

■ black

#### ORDER NO.

**300-0031**



■ x00030

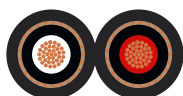


## INSTRUMENT & PATCH CABLE

UNBALANCED

### SC-ONYX 2008 SC-ONYX 2025 MKII

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  OFC



Sectional drawing

### The twin cable ...

is similar in design and quality to the **TRICONE MKII**, but a little thinner due to the twin construction. It fits nearly all TS and RCA plugs, and is well-suited for manufacturing hi-fi cables and for permanent installations.

The **SC-ONYX** can be spliced at the center of the cable. Each wire has its own copper spiral shielding, plus a thick jacket. The insulation is either white and red or white and yellow (**SC-ONYX 2008**), respectively.

The **SC-ONYX 2008** is very small in diameter, which makes it ideal for terminating with mini TS connectors.

Also available as single line (diode cable)

**SC-ONYX TYNEE** (see previous page).

**FREE SAMPLES AVAILABLE!**

■ mm <b>2.6x5.9</b>	■ mm <b>3.8x8.3</b>
Shielding <b>90%</b>	Shielding <b>90%</b>
mm <sup>2</sup> <b>2x1x0.08</b>	mm <sup>2</sup> <b>2x1x0.25</b>

#### APPLICATIONS:

- Cabling unbalanced devices (keyboards)
- Connecting hi-fi components
- Constructing Y-adapter cables
- Assembling insert cables

#### PRODUCT ADVANTAGES:

- Very flexible because of its finely stranded design
- Each conductor is insulated and individually shielded with copper spiral shielding
- Cable pairs can be pulled apart easily by hand
- Small jacket diameter facilitates termination with RCA and TS connectors

#### TECHNICAL DATA

	SC-ONYX 2008	SC-ONYX 2025
Construction:	LI2YDY 2x0.08 mm <sup>2</sup>	LI2YDY 2x0.25 mm <sup>2</sup>
Jacket, outer dimension:	PVC 2.6 x 5.9 mm	PVC 3.8 x 8.3 mm
Inner conductors:	2 x 1 x 0.08 mm <sup>2</sup> (AWG28)	2 x 1 x 0.25 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	10 x 0.10 mm	32 x 0.10 mm
Conductor insulation:	PE-HD	PE
Shielding:	Copper spiral shielding	Copper spiral shielding
Shielding factor:	90%	90%
Temperature range:	-20°C...+70°C	-25°C...+70°C
Fire load per m:	0.20 kWh	0.23 kWh
Weight per 1 m:	26 g	38 g
Packaging:	100 m spool	100 m spool

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	120 pF	120 pF
Cond. resistance per 1 km:	< 220 Ω	115 Ω
Insulation resist. per 1 km:	> 1 GΩ	> 1 GΩ

#### COLOR

- black, 2 x 0.08 mm<sup>2</sup>
- black, 2 x 0.25 mm<sup>2</sup>
- blue, 2 x 0.25 mm<sup>2</sup>

#### ORDER NO.

- 320-0061**
- 320-0101**
- 320-0102**



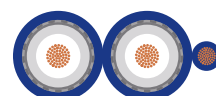
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## INSTRUMENT CABLE

UNBALANCED, TWIN CABLE + CONTROL WIRE

### SC-SINUS CONTROL

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  OFC



Sectional drawing

### It won't make your car run faster ...

but a good sound system can overcome a fair amount of road noise. Seriously, though, the **SC-SINUS CONTROL** practically enjoys cult status among audiophiles and car audio gurus alike.

Because for an extremely low price, you get a cable that is so good it's scary. The **SC-SINUS CONTROL** graces hundreds of thousands of home and car stereo systems, where it is especially appreciated for its perfect shielding (copper braiding + AL/PT foil), which prevents any interference both in the RF and AF range.

Due to its special insulation of highly condensed Foam/Skin-PE, the **SC-SINUS CONTROL** has very low capacitance and very good audio data.

A control wire is directly included to control CD players or other devices, but may also be used as a phono ground wire.

**FREE SAMPLES AVAILABLE!**

■ mm <b>6.2x15</b>
Shielding <b>100%</b>
mm <sup>2</sup> <b>2x0.35+ 1x0.35</b>

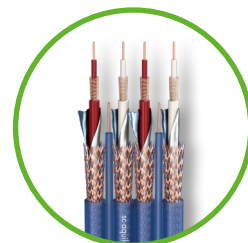
#### APPLICATIONS:

- Instrument or phono cable for moderate to higher standards
- Unbalanced twin cable for high-quality car audio systems

#### PRODUCT ADVANTAGES:

- Delivers rock-solid bass with kick
- Dual shielding with 100% coverage
- Control wire included
- Very reasonably priced

**DUO VERSION** 4 x 1 x 0.14 mm<sup>2</sup>  
+ 2 x 1 x 0.14 mm<sup>2</sup> see webshop.  
Order No.: 800-0152



#### TECHNICAL DATA

Construction:	LI2Y(ST)CY 2x0.35 mm <sup>2</sup> +1x0.35 mm <sup>2</sup>
Jacket, diameter:	PVC 6.2 x 15 mm
Inner conductors:	2 x 1 x 0.35 mm <sup>2</sup> + 1 x 0.35 mm <sup>2</sup> (AWG22)
Copper strands per conductor:	11 x 0.20 mm
Conductor insulation:	Foam/Skin-PE 3.0 mm
Shielding:	Copper braiding + AL/PT foil
Shielding factor:	100%
Temperature range:	-20°C...+70°C
Fire load per m:	0.26 kWh
Weight per 1 m:	86 g
Packaging:	50 m / 100 m spool

#### ELECTRICAL DATA

Capac. cond./shield. per 1 m:	75 pF
Cond. resistance per 1 km:	53 Ω
Insulation resist. per 1 km:	> 1 GΩ

#### COLOR

- black
- blue

#### ORDER NO.

- 320-0251** **NEW**
- 320-0252**



x00032



## AES/EBU & DMX CABLE

BALANCED, PATCH

### SC-SEMICOLOM 2/4 AES/EBU PATCH

⊗ STUDIO ⊗ INSTALL

ANALOG DIGITAL FRNC HALOGEN-FREE PUR OFC

*The moon has risen ...*

and what if only the "little golden stars" are sparkling? Light failure! Sound failure! Engineer's nightmare is the total breakdown. External interference fields are at the cause of it, which in turn are caused by badly shielded cables. Therefore we have developed this cable with a soft jacket material and a 100 % shielding – with an outer diameter of only 5 mm or 5.2 mm (4-way version). The perfect AES/EBU cable for the studio technology, ideally suitable for patching or internal wirings. Where no extreme environmental factors prevail, the cable can also be used for permanent laying over long distances. Its wave impedance of 110 Ω ensures a loss-free transmission of digital signals.

Transversely watertight PUR version – see AQUA-MARINEX series. 4-way version **SC-SEMICOLOM 4** with aramid reinforcement – see previous pages.

**FREE SAMPLES AVAILABLE!**

Sectional drawing see website.

Ø mm	5.0	5.2
Shielding	100%	100%
mm <sup>2</sup>	2x0.22	4x0.14

#### APPLICATIONS:

- Professional studio and microphone technology
- Wiring of effects devices/control units with a return signal
- Professional MIDI technology, dubbing cables
- High-end connection of hi-fi components
- Controlling of lighting and scanner systems and displays

#### PRODUCT ADVANTAGES:

- Optimal shielding with dense copper spiral + AL/PT foil or AL fleece
- Compact and thus space-saving

TECHNICAL DATA	SC-SEMICOLOM 2	SC-SEMICOLOM 4
Construction:	(2LI2Y0.22 mm <sup>2</sup> )(ST)DY	(4LI2Y0.14 mm <sup>2</sup> )(ST)DY
Jacket, diameter:	PVC/FRNC 5.0 mm	PVC/Soft PUR FRNC (accord. to IEC332-1) 5.2 mm
Inner conductors:	2 x 0.22 mm <sup>2</sup> (AWG24)	4 x 0.14 mm <sup>2</sup> (AWG26)
Copper strand per conductor:	PVC: 28 x 0.10 mm / FRNC: 7 x 0.20 mm	18 x 0.10 mm
Conductor insulation:	Foam/Skin-PE	Foam/Skin-PE
Shielding:	PVC: Copper spiral sleeve + AL-fleece FRNC: Copper spiral sleeve + AL/PT foil	Copper spiral sleeve + AL-fleece
Shielding factor:	100%	100%
Temperature range:	-25°C...+70°C	PVC: -40°C...+70°C PUR: -40°C...+70°C
Fire load per m:	0.13 kWh	0.18 kWh
Weight per 1 m:	33 g	48 g
Packaging:	100 m/500 m spool	100 m/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF	40 pF
Capac. cond./shield. per 1 m:	95 pF	80 pF
Cond. resistance per 1 km:	80 Ω	< 140 Ω
Insulation resist. per 1 km:	> 1 GΩ	> 1 GΩ
Surge impedance:	110 Ω	110 Ω
Attenuation per 100 m (20°C):	1 MHz: 2.2 dB 3 MHz: 3.8 dB 10 MHz: 6.9 dB	1 MHz: 2.8 dB 3 MHz: 4.7 dB 10 MHz: 9.8 dB

#### COLOR

■ black	<b>ORDER NO.</b> <b>520-0101</b>
■ blue	<b>520-0102</b>
★ blue, FRNC	<b>520-0102F</b>
■ black, quad, PVC	<b>520-0141</b> <b>NEW</b>
■ black, quad, Soft-PUR-FRNC	<b>521-0141</b>
□ white, quad, PVC	<b>520-0140</b>



ⓧ x00033

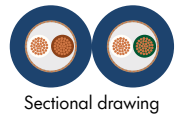
## AES/EBU & DMX CABLE

BALANCED, TWIN CABLE

### SC-PEACOCK AES/EBU

⊗ STAGE ⊗ STUDIO ⊗ INSTALL

ANALOG DIGITAL OFC



Sectional drawing

*Side by side ...*

two pairs of conductors fit into two plugs. Or into three – or why not even four? You can do a lot with this cable, but it will be primarily used as a stereo cable for microphones and for manufacturing RCA and Y-patch cables.

Each of its wire pairs is protected individually by dense spiral shielding with 95 % coverage and can be separated at anytime. The single line will fit into every 1/4", XLR, and RCA plug.

**For round cables see multicores, e.g. SC-MISTRAL and SC-QUANTUM HIGHFLEX.**

**FREE SAMPLES AVAILABLE!**

STRONG SPVC
■ mm
4,5x9.2
Shielding
95%
mm <sup>2</sup>
2x2x0.22

#### APPLICATIONS:

- Wiring of stereo microphones
- Assembly of insert cables
- For DMX duplex transmission

#### PRODUCT ADVANTAGES:

- Highly flexible due to the use of a soft, cold-resistant PVC jacket
- Multiple applications, as the individual wires can be separated at any time

#### TECHNICAL DATA

Construction:	2[(2LI2Y0.22 mm <sup>2</sup> )DY]
Jacket, outer dimension:	S-PVC 4.5 x 9.2 mm
Inner conductors:	2 x 2 x 0.22 mm <sup>2</sup> (AWG24)
Copper strand per conductor:	28 x 0.10 mm
Conductor insulation:	Foam/Skin-PE 1.3 mm
Shielding:	Copper spiral sleeve
Shielding factor:	95%
Temperature range:	-30°C...+70°C
Fire load per m:	0.18 kWh
Weight per 1 m:	49 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	70 pF
Capac. cond./shield. per 1 m:	125 pF
Cond. resistance per 1 km:	< 90 Ω
Shield. resistance per 1 km:	< 36 Ω
Insulat. resistance per 1 km:	> 500 MΩ
Surge impedance:	110 Ω

#### COLOR

■ blue	<b>ORDER NO.</b> <b>200-0552</b>
■ black	<b>200-0551</b>



ⓧ x00034



## AES/EBU &amp; DMX CABLE

BALANCED, OUTDOOR

## SC-BINARY 234 AES/EBU MKII



STAGE    MOBILE    STUDIO    INSTALL    ELA  
 ANALOG    DIGITAL    FRNC    HALOGEN-FREE    OFC

## Swinging with your girlfriend ...

like Tarzan in the jungle. With this cable you could do just that: it can take a lot of tugging, bending, and rough wear and tear. This is important when installing it in sharp-edged lighting trusses.

The **SC-BINARY 234** is an outstanding cable for the transmission of digital signals in the 110 Ω AES/EBU and DMX data format. Its shielding is provided by an aluminum-vaporized fleece and copper spiral shielding with 100% coverage. So it offers very good protection against electric and magnetic interference. This cable ensures error-free data transfer over distances of up to 1000 meters/3280 feet.

With the **SC-BINARY 234**, you'll be on the safe side.

**Also available in a halogen-free FRNC version (521-0051F, according to IEC 332-3).**

For the transversely watertight PUR version – see the AQUA-MARINEX series.

## FREE SAMPLES AVAILABLE!

Sectional drawing see website.



## AES/EBU &amp; DMX CABLE

4-WIRES, BALANCED, OUTDOOR

## SC-BINARY 434 DMX512



STAGE    MOBILE    STUDIO    INSTALL    ELA  
 ANALOG    DIGITAL    CPR    FRNC    HALOGEN-FREE    TERRA    OFC

## Back and forth, to and fro ...

the dance of bits and bytes should flow. When data needs to be passed back and forth, a digital cable with a check-back channel should be used. The wave impedance of this cable is also specified at 110 Ω. Two of the four wires are responsible for the check-back function. The sturdy jacket is suitable both for outdoor use and permanent installation.

Color coding according to DIN 47100.

Due to the dual shielding (AL/PT foil + copper braiding) and wire coding, it conforms to the generally applicable guidelines (VDE 0812/ VDE 0207). Transmission rate 256 Kbs according to EIA 485 standard.

The PE version is halogen-free, which makes it suitable for underground installation. Flexible PUR blend version for touring and outdoor applications.

The FRNC version is for in-wall installation.

## FREE SAMPLES AVAILABLE!

Sectional drawing see website.

## APPLICATIONS:

- Networking of scanners, lighting systems, digital mixing consoles, etc.
- For indoor and outdoor installation
- Connection of digital audio amplifiers, DAT recorders, etc.

## PRODUCT ADVANTAGES:

- AES/EBU and DMX-conformant, PVC version highly flexible
- Very good shielding due to the use of copper spiral shielding and an aluminum-vaporized fleece
- Extremely rugged due to the special tough jacket
- Only a little more expensive than a standard microphone cable

## TECHNICAL DATA

Construction:	(2LI2Y0.34 mm <sup>2</sup> )(ST)DY
Jacket, diameter:	PVC/PUR: 6.2 mm; FRNC (accord. to Test Type C): 5.6 mm
Inner conductors:	2 x 0.34 mm <sup>2</sup> (AWG22)
Copper strands per conductor:	19 x 0.15 mm
Conductor insulation:	Foam/Skin-PE 1.50 mm
Shielding:	Copper spiral shielding + aluminum steamed fleece
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.17 kWh (520-0051F: 0.23 kWh)
Weight per 1 m:	50 g
Packaging:	100 m spool

## ELECTRICAL DATA

Capac. cond./cond. per 1 m:	< 63 pF
Capac. cond./shield. per 1 m:	115 pF
Cond. resistance per 1 km:	53 Ω
Shield. resistance per 1 km:	28 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	110 Ω

COLOR	ORDER NO.
■ black	<b>520-0051</b>
■ blue	<b>520-0052</b>
■ grey	<b>520-0056</b>
★ black, FRNC	<b>520-0051F</b>
★ black, PUR-Blend	<b>521-0051</b>



x00035

## APPLICATIONS:

- Networking of scanners and lighting systems with check-back function
- Connection of digital control units and devices of all kinds
- PE version for underground installation + saltwater-resistant
- PUR blend version for touring outdoor applications

## PRODUCT ADVANTAGES:

- Digital transmission over long distances in accordance with DMX and AES/EBU standards
- Excellent protection against electrical interference (copper braiding + AL/PT foil)
- Extremely robust due to the special tough jacket
- PE version: saltwater-resistant and suitable for underground installation
- Cca version: tinned inner conductor

## TECHNICAL DATA

Construction:	[2(2LI2YS0.34 mm <sup>2</sup> )(ST)]CY
Jacket, diameter:	7.0 mm
Jacket material:	Standard in PVC/ground install. version PE/PUR-blend
Inner conductors:	4 x 0.34 mm <sup>2</sup> (AWG22)
Copper strands per conductor:	7 x 0.25 mm
Conductor insulation:	PE 1.7 mm
Shielding:	Copper-cross mesh, tinned + AL/PT foil
Shielding factor:	100%
Temperature range:	-25 °C...+70 °C / Cca-Version: -15 °C... +80 °C
Fire load per m:	0.22 kWh
Weight per 1 m:	65 g
Packaging:	100 m spool

## ELECTRICAL DATA

Capac. cond./cond. per 1 m:	58 pF
Capac. cond./shield. per 1 m:	100 pF
Cond. resistance per 1 km:	53 Ω
Shield. resistance per 1 km:	15 Ω
Insulation resist. per 1 km:	> 5 GΩ
Surge impedance:	110 Ω

COLOR	ORDER NO.
■ grey, PVC	<b>540-0056</b>
■ black, PVC	<b>540-0051</b>
★ black, PE	<b>540-0051PE</b>
★ black, PUR-Blend	<b>541-0051</b>
★ black, FRNC/Cca	<b>540-0051FC</b> <b>NEW</b>



x00036



## AES/EBU & DMX CABLE

4-WIRES, BALANCED, OUTDOOR, TWISTED PAIR

### SC-BINARY 422 TP DMX512

STAGE 
  MOBILE 
  STUDIO 
  INSTALL 
  ELA  
 ANALOG 
  DIGITAL 
  TERRA 
  OFC

*These two don't want to know each other ...*

but they live in the same jacket! To minimize the diameter or to save space, AES/EBU- or DMX cables are normally "cross-stranded", just like with our **SC-BINARY 434**. When used under extremely tough conditions, the wires can slightly shift which might result in a slightly wider tolerance range for the electrical data. To be on the safe side, you can go for this somewhat more complex version, with individual wire pair shielding, plus additional AL/PT foil insulation on both wire pairs. While this makes the cable a bit thicker, of course, this also gives it extra stability. The new **SC-BINARY TP** (TWISTED PAIR) is fitted with an abrasion-proof, cold-resistant S-PVC jacket. With its dual shielding (AL/PT foil + copper braiding) and wire coding, it complies with the generally applicable guidelines (VDE 0812/VDE 0207). Transmission rate 256 Kbs according to EIA 485.

**FREE SAMPLE AVAILABLE!**  
Sectional drawing see website.

#### APPLICATIONS:

- Connection of scanners and lighting systems with check-back function
- Connection of digital control units and devices of all kinds
- S-PVC jacket for mobile outdoor applications

STRONG  
SPVC  
EBU  
DMX512  
4x0.22  
mm<sup>2</sup>  
4x0.22

Ø mm

8.0

Shielding  
100%

mm<sup>2</sup>

4x0.22

#### PRODUCT ADVANTAGES:

- Digital transmission over long distances based on DMX- and AES/EBU standards
- Excellent protection against electric interference (copper braiding + AL/PT foil) plus twisted-pair design
- Extremely sturdy owing to the tough jacket

#### TECHNICAL DATA

Construction:	[2(2LI2YS0.22 mm <sup>2</sup> )(ST)]CY
Jacket, diameter:	8.0 mm
Jacket material:	S-PVC
Inner conductors:	4 x 0.22 mm <sup>2</sup> (AWG24)
Copper strand per conductor:	7 x 0.20 mm
Conductor insulation:	Foam/Skin-PE 1.55 mm
Shielding:	Copper braiding tin-plated + 2 x AL/PT foil
Shielding factor:	100%
Temperature range:	-25°C...+70°C
Fire load per m:	0.25 kWh
Weight per 1 m:	76 g
Packaging:	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF
Capac. cond./shield. per 1 m:	110 pF
Cond. resistance per 1 km:	< 87 Ω
Shield. resistance per 1 km:	15 Ω
Insulat. resistance per 1 km:	> 100 MΩ
Surge impedance:	110 Ω
Transmission speed:	accord. to EIA-485 standard 256 Kbs

#### COLOR

- black
- blue

#### ORDER NO.

542-0051  
542-0052



## BUS-CONTROL CABLE

2 x 0.38 mm<sup>2</sup>/0.35 mm<sup>2</sup>/AWG21 CONTROL + 2 x 2.0 mm<sup>2</sup>/AWG14 POWER; 2 x 0.25 mm<sup>2</sup>/AWG23 CONTROL + 2 x 1.0 mm<sup>2</sup>/AWG17 POWER

### SC-KOLORITH 1 / SC-KOLORITH MINI

MOBILE 
  STUDIO 
  INSTALL 
  ELA  
 ANALOG 
  DIGITAL 
  CPR 
  FRNC 
  HALOGEN-FREE 
  OFC

*It colors up your life ...*

for the **SC-KOLORITH** is the perfect cable for use with low-voltage/intelligent DC loudspeaker products from MEYER SOUND. It is also great for building installation systems on a BUS basis as well as for connecting color wheels. The **SC-KOLORITH** transmits data and supplies power in one cable. The pairwise stranded data line (wave impedance 110 Ω) is shielded and, due to the use of fine 0.10 mm/AWG38 stranded single wires, guarantees high bending cycles. With 2 mm<sup>2</sup>/AWG14 (or 1 mm<sup>2</sup>/AWG17 on the **SC-KOLORITH MINI**), the two voltage supply wires are ideally dimensioned for the transmission of voltages up to 50 V with low power losses. The **SC-KOLORITH MINI** fits perfectly into the EN3 connector from Switchcraft – see also the chapter "Ready-made Cables".

**FREE SAMPLE AVAILABLE!**  
Sectional drawing see website.

#### APPLICATIONS:

- For connecting low-voltage /intelligent DC products made by Meyer Sound
- For connection to a color wheel
- For installation purposes (studio, illumination, building services engineering)
- Outdoor installation applications

#### PRODUCT ADVANTAGES:

- Connection of building services engineering systems over distances of up to 1000 m/3280 ft.
- Also suitable as audio/speaker hybrid cable
- Very compact, flexible and easy to use

#### TECHNICAL DATA

	KOLORITH 1	KOLORITH MINI
Construction:	[2LIY2.0 mm <sup>2</sup> + (2LIY0.38 mm <sup>2</sup> / 0.35 mm <sup>2</sup> )(ST)]Y	[2LIY1.0 mm <sup>2</sup> + (2LIY0.25 mm <sup>2</sup> )(ST)]Y
Jacket, diameter:	7.4 mm (total)	6.5 mm (total)
	2.5 mm (BUS/audio)	2.3 mm (BUS/audio)
Inner conductors:	audio: PVC: 2 x 0.38 mm <sup>2</sup> (AWG21) / FRNC: 2 x 0.35 mm <sup>2</sup> (AWG22)	2 x 0.25 mm <sup>2</sup> , (AWG23)
	power: 2 x 2.0 mm <sup>2</sup>	2 x 1.0 mm <sup>2</sup>
Copper strand per conductor:	BUS: PVC: 48 x 0.10 mm FRNC: 45 x 0.10 mm	32 x 0.10 mm tin-plated
Conductor insulation (Audio):	PP 1.3 mm	PP 1.3 mm
Shielding:	AL/PT foil + filler strand (BUS/audio)	
Shielding factor:	100%	100%
Temperature range::	-25°C... +70°C	-25°C... +70°C
Fire load per m:	0.32 kWh	0.239 kWh
Weight per 1 m:	88 g	55 g
Packaging:	per m	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF (BUS/audio)	73 pF (BUS/audio)
Capac. cond./shield. per 1 m:	104 pF (BUS/audio)	115 pF (BUS/audio)
Cond. resistance per 1 km:	< 60 Ω (BUS/audio)	< 78 Ω (BUS/audio)
Shield. resistance per 1 km:	25 Ω	30 Ω
Insulation resist. per 1 km:	> 1 GΩ	> 20 MΩ
Surge impedance:	110 Ω	110 Ω

#### COLOR

- black, PVC
- black, FRNC/Dca
- black, PVC, MINI
- black, FRNC, MINI

#### ORDER NO.

500-0101-1  
500-0101-1FC **NEW**  
500-0111-1  
500-0111-1FC **NEW**



## MULTIPAIR STAGE, STUDIO &amp; INSTALLATION AUDIO

[AES/EBU]

BALANCED, INSULATED IN PAIRS, COPPER SPIRAL SHIELDING

## SC-QUANTUM HIGHFLEX

⊗ STAGE ⊗ MOBILE ⊗ STUDIO ⊗ INSTALL ⊗ X-TORSION  
ANALOG DIGITAL OFC

## A true all-rounder ...

because it could not be any longer, faster or more flexible. The **SC-QUANTUM HIGHFLEX** is just the cable that all "bending radius fetishists" want.

Event technicians, musicians and ambitious live sound engineers have always been dreaming of this cable. The **SC-QUANTUM HIGHFLEX** is absolutely torsion-free, i.e. it can be easily wound in a figure-8 and will not twist during winding or unwinding. The S-PVC jacket, which is abrasion and cold-resistant down to  $-25^{\circ}\text{C}$  ( $-13^{\circ}\text{F}$ ), feels soft – due to the superfine 0.07 mm/AWG41 individual copper strands and the polyethylene insulated wire protection. The interior is also wonderfully supple and unbreakable. From the 8-pair version upward, we have included an extra yellow/green PE wire (Protective Earth) to provide added stability and safety. The electrical and mechanical specs are likewise remarkable. Each wire pair is shrouded in an additional layer of insulation, numbered and shielded by a copper spiral with 99% coverage. The **SC-QUANTUM HIGHFLEX** stands out with its low 445 pF/m (13.7 pF/ft.) wire:wire capacitance and will continue to meet the 110  $\Omega$  AES/EBU specifications for several hundred meters! The wire pair diameter is perfectly suitable for direct mounting (e.g., of an XLR connector). The interior is protected from adverse influences by a highly flexible PVC jacket provides a wall thickness of almost 2 mm/0.079". There has never been a cable with such electrical and mechanical values offered at such a low price!

(Multipair cable incl. load – see DMX multicore **SC-MONOLITH POWER DMX**)

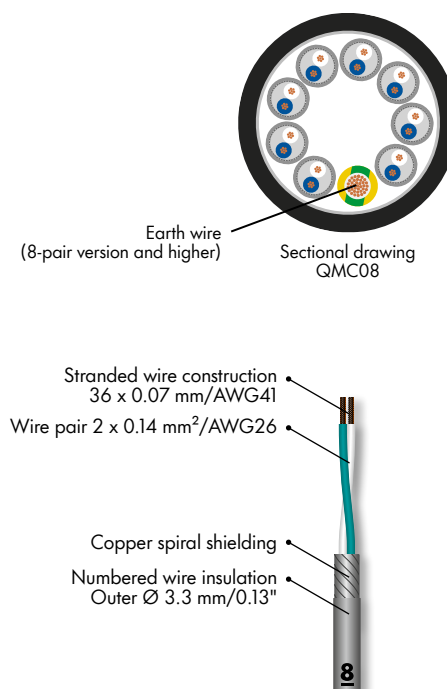
**FREE SAMPLE AVAILABLE!**

## APPLICATIONS:

- Professional stage and live multicore with separate or central grounding
- Creation of highly flexible studio fanouts, analog and digital
- Permanent installation

## PRODUCT ADVANTAGES:

- Each wire pair is individually insulated and shielded by a copper spiral (99% coverage)
- Additional ground wire (from 8-pair version on up)
- Very low 45 pF/m (13.7 pF/ft.) wire:wire capacitance
- Highly flexible and reelable without twisting
- In compliance with AES/EBU (110  $\Omega$ )
- Very attractive price



## TECHNICAL DATA

Construction:	[xx(2L12Y0.14 mm <sup>2</sup> )DY+(0.5 mm <sup>2</sup> )Y]Y
Jacket material:	S-PVC
AWG:	AWG26
Conductor insulation:	Skin-PE
Shielding:	Copper spiral in pairs, tin-plated
Shielding factor:	99%
Temperature range:	$-25^{\circ}\text{C}$ ... $+80^{\circ}\text{C}$
Jacket color:	■ black, matt
Packaging:	per m

## ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF
Capac. cond./shield. per 1 m:	90 pF
Cond. resistance per 1 km:	< 138 $\Omega$
Insulat. resistance per 1 km:	> 20 M $\Omega$
Surge impedance:	110 $\Omega$

TYPE	Ø	INNER COND.	COPPER STR.COND.	FIRE LOAD	WEIGHT	ORDER NO.
QMC02	8.5 mm	2 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	0.26 kWh/m	80 g/m	<b>100-0451-02</b>
QMC04	10.2 mm	4 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	0.41 kWh/m	108 g/m	<b>100-0451-04</b>
QMC08	13.8 mm	8 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	0.55 kWh/m	200 g/m	<b>100-0451-08</b>
QMC12	16.0 mm	12 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	0.83 kWh/m	255 g/m	<b>100-0451-12</b>
QMC16	17.5 mm	16 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	1.04 kWh/m	325 g/m	<b>100-0451-16</b>
QMC24	21.5 mm	24 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	1.50 kWh/m	480 g/m	<b>100-0451-24</b>
QMC32	24.0 mm	32 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	1.92 kWh/m	630 g/m	<b>100-0451-32</b>
QMC48	29.0 mm	48 x 2 x 0.14 mm <sup>2</sup>	36 x 0.07 mm	2.94 kWh/m	950 g/m	<b>100-0451-48</b>



x00040



## MULTIPAIR STUDIO, INSTALLATION

BALANCED, INSULATED IN PAIRS, AL/PT FOIL SHIELDING + AL/PT FOIL OVERALL SHIELDING

## AUDIO [AES/EBU]

### SC-MISTRAL

✗ MOBILE ✗ STUDIO ✗ INSTALL  
ANALOG DIGITAL OFC FRNC

### Almost as old as Methuselah ...

that's the **SC-MISTRAL MCF** multipair. We have been making it for almost 10 years using the same proven technology. The **SC-MISTRAL MCF** features PVC insulation around each wire pair, as is standard for studio multicores. Each pair is numbered, and each block of 8 pairs has its own color-coding for easy identification. Each wire pair of the **SC-MISTRAL MCF** is accompanied by its own pre-twisted drain wire, and around all three is a shielding made of AL/PT compound foil. For added protection against corrosion and oxidation, both the conductors and the drain wire have been tinned. The cable is particularly easy to work with, because the AL/PT foil will stick to the outer jacket when stripping. The **SC-MISTRAL MCF** is very easy to lay and reel. We also recommend it for the assembly of multicore adapters. The insulated pairs can be directly inserted into XLR and 1/4" connectors without needing additional shrink tubing.

The model versions MCF04, MCF08 and MCF12 are also available in a **halogenfree and flameretardant FRNC version** (IEC 332-3) for permanent installation.

**FRNC VERSION NOW AVAILABLE!**

**IN COMPLIANCE WITH AES/EBU 110 Ω!**

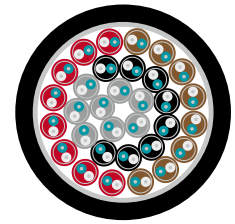
**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Ideal for studio installation and other permanent installs
- Fixed installation in theaters, public buildings, etc.
- Construction of dependable cable reel systems

#### PRODUCT ADVANTAGES:

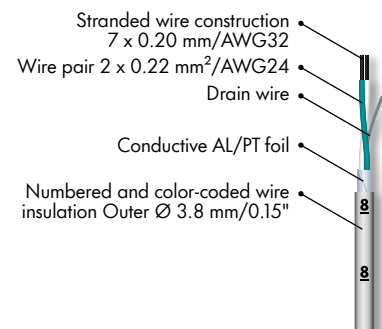
- Additional insulation for each wire pair with a numbered and color-coded PVC sleeve
- Very flexible and crush-resistant owing to the use of a rubber-like jacket material
- Easy to work with due to the use of compound foil and a pre-twisted drain wire
- High bending cycles due to the tightly stranded copper wires
- Returns on cable fanouts are instantly recognizable thanks to the color coding of conductor pairs
- Low capacitance ensures high transmission quality even over greater distances
- Very reasonably priced



Sectional drawing MCF32

#### COLOR

grey	Wire pair	1 - 8
black	Wire pair	9 - 16
brown	Wire pair	17 - 24
red	Wire pair	25 - 32



Microphone and control cable  
**SC-PLANET CPR class Cca**,  
 1 and 2 x 2 x 0.34 mm<sup>2</sup>, see webshop.  
 Order No.: 100-0041-01C / -02C



#### TECHNICAL DATA

Construction:	[xx(2LI2Y0.22 mm <sup>2</sup> )(ST)Y]F(ST)Y
Jacket material:	S-PVC/FRNC
AWG:	AWG24/7
Conductor insulation:	Foam/Skin-PE 1.6 mm
Shielding:	AL/PT foil + total foil shielding + filler strand
Shielding factor:	100%
Temperature range:	-30°C...+70°C
Jacket color:	■ black, matt
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	46 pF
Capac. cond./shield. per 1 m:	85 pF
Cond. resistance per 1 km:	< 80 Ω
Shield. resistance per 1 km:	75 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	110 Ω

Attenuation per 100 m:	1 MHz:	3.9 dB
	5 MHz:	6.1 dB
	10 MHz:	8.1 dB
	20 MHz:	12.6 dB
	40 MHz:	23.4 dB
	50 MHz:	28.6 dB

TYPE	Ø	INNER CONDUCTOR	COPPER STR./COND.	FIRE LOAD	WEIGHT	ORDER NO.
MCF02	9.0 mm	2 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	0.58 kWh/m	90 g/m	<b>100-0101-02</b>
MCF04	11.0 mm	4 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	0.76 kWh/m	130 g/m	<b>100-0101-04</b>
MCF04 FRNC	11.0 mm	4 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	0.54 kWh/m	116 g/m	<b>100-0101-04F</b>
MCF08	14.8 mm	8 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	1.21 kWh/m	256 g/m	<b>100-0101-08</b>
MCF08 FRNC	15.0 mm	8 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	0.97 kWh/m	201 g/m	<b>100-0101-08F</b>
MCF12	17.6 mm	12 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	1.78 kWh/m	338 g/m	<b>100-0101-12</b>
MCF12 FRNC	16.9 mm	12 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	1.38 kWh/m	274 g/m	<b>100-0101-12F</b>
MCF16	19.4 mm	16 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	2.25 kWh/m	400 g/m	<b>100-0101-16</b>
MCF24	24.5 mm	24 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	3.06 kWh/m	670 g/m	<b>100-0101-24</b>
MCF32	26.8 mm	32 x 2 x 0.22 mm <sup>2</sup>	7 x 0.20 mm	4.04 kWh/m	836 g/m	<b>100-0101-32</b>



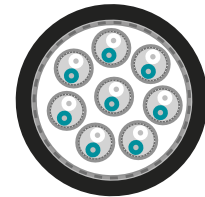


## MULTIPAIR STAGE + OB VAN

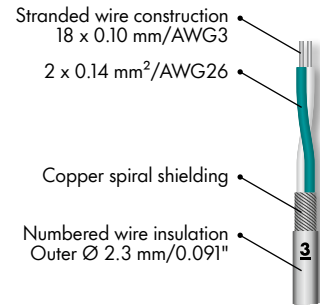
BALANCED, INSULATED IN PAIRS, COPPER SPIRAL SHIELDING + COPPER OVERALL SHIELDING

### SC-TRANSFER HIGHFLEX

⊗ STAGE ⊗ MOBILE ⊗ STUDIO ⊗ INSTALL  
ANALOG PUR OFC



Sectional drawing AMCK08



### 5-year test trial ...

this is the cable that anyone involved in sound, broadcasting and TV has been waiting for. Together with leading sound companies and employees from a variety of broadcasting stations, our technicians have developed a new multipair cable for tough outdoor applications. To make sure that it handles cold, hard winter conditions well, we have fitted it with our specially formulated robust cold-resistant PUR Master Blend jacket. This guarantees temperature stability down to  $-40^{\circ}\text{C}/-40^{\circ}\text{F}$ , furthermore it is also very heat-resistant and abrasion-proof. The outer PUR jacket and the inner TPC-ET wire insulation were made for extreme applications. Rest assured that bending, heavy tugging, and dragging on the ground will barely affect this cable. Of course, this cable can also be used as a high-quality stage or installation cable. We're happy to announce that the new **SC-TRANSFER HIGHFLEX** Multipair with the "MASTER BLEND" PUR jacket is available for immediate delivery. This jacket is so rugged and wear-proof that the cable comes with a 5-year warranty.

(For a powered version of this cable, see DMX multicorev **SC-MONOLITH POWER DMX**)

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Reelable cable for broadcasting and OB vans
- Permanent indoor and outdoor installation
- Extremely robust stage cable for high-quality stagebox systems
- Perfect studio line due to the high protection against interference

#### PRODUCT ADVANTAGES:

- Super small in diameter and very robust
- Extra paired insulation with a numbered PVC sleeve
- Excellent shielding against interference with a dense overall screen made of tinned copper braiding, plus copper spiral shielding around each wire pair
- Excellent signal transmission due to tightly stranded copper wiring

We use a PUR Master Blend jacket of the highest quality. It is not only cold-resistant, but also heat-proof and completely adhesion-free (dirt-repellent)!



#### TECHNICAL DATA

Construction:	[xx(2LI2Y0.14 mm <sup>2</sup> )DY]CY PUR
Jacket material:	PUR, Master Blend
AWG:	AWG26
Conductor insulation:	PE 0.85 mm, wire jacket TPC-ET 2.3 mm
Shielding:	Copper spiral in pairs, overall shielding copper braiding, tin-plated
Shielding factor:	90%
Temperature range:	$-40^{\circ}\text{C}...+70^{\circ}\text{C}$ (accord. to ISO458)
Jacket color:	■ black
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	85 pF
Capac. cond./shield. per 1 m:	140 pF
Cond. resistance per 1 km:	< 138 $\Omega$
Shield. resistance per 1 km:	< 125 $\Omega$
Insulation resist. per 1 km:	> 1 G $\Omega$
Surge impedance:	75 $\Omega$

TYPE	Ø	INNER COND.	COPPER STR./COND.	FIRE LOAD	WEIGHT	ORDER NO.
AMCK08	9.9 mm	8 x 2 x 0.14 mm <sup>2</sup>	18 x 0.10 mm	0.40 kWh/m	138 g/m	<b>100-0401-08</b>
AMCK12	11.5 mm	12 x 2 x 0.14 mm <sup>2</sup>	18 x 0.10 mm	0.50 kWh/m	180 g/m	<b>100-0401-12</b>
AMCK16	14.5 mm	16 x 2 x 0.14 mm <sup>2</sup>	18 x 0.10 mm	0.78 kWh/m	274 g/m	<b>100-0401-16</b>
AMCK32	18.6 mm	32 x 2 x 0.14 mm <sup>2</sup>	18 x 0.10 mm	1.12 kWh/m	478 g/m	<b>100-0401-32</b>
AMCK48	21.8 mm	48 x 2 x 0.14 mm <sup>2</sup>	18 x 0.10 mm	1.65 kWh/m	765 g/m	<b>100-0401-48</b>



## MULTIQUAD STUDIO HIGH-END

BALANCED, INSULATED BY CHANNEL, AL/PT FOIL AND COPPER SPIRAL SHIELDING + COPPER OVERALL SHIELDING

## AUDIO [AES/EBU]

### SC-PEGASUS

STAGE  MOBILE  STUDIO  INSTALL  HIFI  X-TORSION  
 ANALOG  DIGITAL  OFC

### Reaching for the stars ...

was our aim with this cable. We came up with a high-end multiconductor cable which may very well be the best available on the market today. This is the multi-channel audio cable for the ambitious studio professional unwilling to compromise on linearity and shielding. To achieve optimal sound, wire the four conductors of each channel in a star-quad arrangement, with the opposite conductors wired in parallel. That way we achieve an incredibly low capacitive value of approximately 37 pF/m (11.3 pF/ft.) wire:wire, and thus a nearly loss-free transmission over greater distances. When wired in a cross formation, the **SC-PEGASUS** can be used for digital applications (AES/EBU 110 Ω)! Our tight stranding, using fine oxygen-free copper stranded wires with a diameter of just 0.05 mm/AWG44, is optimal for delivering a pristinely accurate signal across the entire frequency spectrum, while providing the advantage of high bending cycles and a long life.

The **SC-PEGASUS** has shielding that goes far beyond the demands normally required of a high-end multipair cable, partially because it is literally multi-quad. It is equipped with an overall screen, plus an individual shield for each channel, each with 100% optical coverage. The overall shield is made of copper cross-braiding, and the channel screens consist of a copper spiral with an additional conductive AL foil. The **SC-PEGASUS** is not only protected against external interference, but each set of channel wires are also perfectly separated and shielded from each other.

With the **SC-PEGASUS**, you are purchasing a cable that represents the present and future in state-of-the-art multi-channel connectivity, so that going forward you can finally focus entirely on your music and your mix.

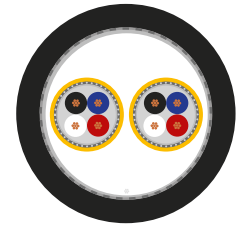
#### FREE SAMPLE AVAILABLE!

#### APPLICATIONS:

- Ultimate studio reference cable
- High-end permanent installations
- Construction of high-end stagebox systems

#### PRODUCT ADVANTAGES:

- Smoothly balanced sound across entire audible spectrum
- Low-loss signal transmission and perfect shielding
- Absolutely superb technical and electrical values
- Digital-capable (when wired in a star-quad configuration, i.e. a double-balanced cross formation)



Sectional drawing CMCK02

Stranded wire construction  
102 x 0.05 mm/AWG44  
Quad wires 4 x 0.20 mm<sup>2</sup>/ AWG24  
Conductive AL/PT foil  
Copper spiral shielding  
Numbered wire insulation  
Outer Ø 4.7 mm/0.185"

2

#### Two things surprised us.

The high capacitive values of the star-quad cables from other manufacturers and the fact that a star-quad connection did not yield the values to be expected from a studio multipair. Even a star-quad value of 70 pF/m (21.3 pF/ft.) wire:wire could not compare with a budget

**SOMMER CABLE** audio multicore (standard 45 to 65 pF/m (13.7 to 19.8 pF/ft.) wire: wire with SC-Planet FMC, SC-Quantum Highflex, C-Mistral etc.). It became obvious that we should also "crossbreed" our cables... and surprise, surprise!



STRONG  
SPVC

Shielding  
100%

4x  
mm<sup>2</sup>  
x4x0.20

CK

#### TECHNICAL DATA

Construction:	[xx(4L2Y0.20 mm <sup>2</sup> )(ST)DY]CY
Jacket material:	S-PVC
AWG:	AWG24
Conductor insulation:	Foam/Skin-PE
Shielding:	Copper braiding tin-plated (overall) and copper spiral tin-plated + AL/PT foil (wire pair)
Shielding factor:	100%
Temperature range:	-20°C...+70°C
Jacket color:	■ black
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	37 pF (star-quad))
Capac. cond./shield. per 1 m:	76 pF (star-quad)
Cond. resistance per 1 km:	< 100 Ω
Insulat. resistance per 1 km:	> 20 MΩ
Surge impedance:	110 - 120 Ω (star-quad)
Attenuation per 100 m (20°C):	1 MHz: 3.2 dB
	10 MHz: 8.9 dB
	25 MHz: 14.6 dB
	50 MHz: 20.0 dB
	75 MHz: 24.3 dB
	100 MHz: 28.3 dB

TYPE	Ø	INNER COND.	COPPER STR./COND.	FIRE LOAD	WEIGHT	ORDER NO.	
CMCK02	13.5 mm	2 x 4 x 0.20 mm <sup>2</sup>	102 x 0.05 mm	0.72 kWh/m	194 g/m	100-0501-02	
CMCK04	15.4 mm	4 x 4 x 0.20 mm <sup>2</sup>	102 x 0.05 mm	1.15 kWh/m	295 g/m	100-0501-04	
CMCK08	21.0 mm	8 x 4 x 0.20 mm <sup>2</sup>	102 x 0.05 mm	1.93 kWh/m	538 g/m	100-0501-08	

☒ x00044

## COMPACT MULTIPAIR BROADCAST

BALANCED, INSULATED IN PAIRS, COPPER SPIRAL SHIELDING + COPPER OVERALL SHIELDING

## AUDIO [AES/EBU]

### SC-AURA DMCK

STAGE 
  MOBILE 
  STUDIO 
  INSTALL  
 ANALOG 
  DIGITAL 
  FRNC 
  OFC

### A perfect 10 ...

if you're looking for the perfect cable to fit the Siemens multi-pin connector. With a diameter of only 12.0 mm/0.472", the **SC-AURA DMCK10** (100-0351-10F) is simply perfect for the SIEMENS male/female DIN41622 and all other multi-pin connectors. What makes it special is not just the small diameter, but also a constant wave impedance of 110 Ω (±3% tolerance). We were able to maintain this constant wave impedance by leaving out the drain wire. Instead we used a dense and tightly stranded oxygen-free copper spiral. The entire wire pair is then protected by a color-coded insulation.

So the **SC-AURA** is not only sturdy, but also perfectly shielded against interference.

The **SOFT-PUR-FRNC** version is easy to reel and hence perfectly suitable for touring applications, yet equally suitable for permanent installation with the FRNC jacket. We recommend the lower-priced 10-pair PVC version for the assembly of patch cables and for mobile indoor applications.

**THE SPECIAL CABLE FOR THE SIEMENS MULTI-PIN CONNECTOR!**

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Mobile production (outdoor: SOFT-PUR-FRNC/indoor: PVC) and permanent installation (FRNC)
- Transmission of digital signals in the studio setting
- Flexible stage multipair (stageboxes, insert snakes, etc.)

#### PRODUCT ADVANTAGES:

- Small diameter of 12.0 mm/0.472" (DMCK10-F), thus ideal for finishing for the 30-pin SIEMENS type male and Sub-D connectors
- Highly flexible due to the tight stranding and supple jacket material
- Extremely durable due to the use of oxygen-free copper and individually insulated wire pairs
- Due to the smart design, a constant wave impedance of 110 Ω is guaranteed even after repeated reeling
- Ideal as AUDIO multipair due to low attenuation values



Shielding  
**90%**

mm<sup>2</sup>  
**x2x0.15**



Sectional drawing DMCK10 PVC

Stranded wire construction  
19 x 0.10 mm/AWG38

Color-coded wire pair  
2 x 0.15 mm<sup>2</sup>/AWG24

Copper spiral shielding

Color-coded wire insulation  
Outer Ø 3.1 mm/0.122"

Color code according  
to ARD functional specs

Channel	+	-
CH1	red	blue
CH2	white	brown
CH3	white	green
CH4	white	yellow
CH5	white	grey
CH6	white	pink
CH7	white	blue
CH8	white	red
CH9	white	black
CH10	white	violet

Color code of  
DMCK 10 PVC

Channel	+	-
CH1	black	red
CH2	black	white
CH3	black	green
CH4	black	blue
CH5	black	yellow
CH6	black	brown
CH7	black	orange
CH8	red	white
CH9	red	green
CH10	red	blue

#### TECHNICAL DATA

Construction:	[x(2LI2Y0.15 mm <sup>2</sup> )DY]CY
Jacket material:	PVC / Soft-PUR-FRNC
AWG:	AWG26
Conductor insulation:	PE 1.10 mm
Shielding:	Copper spiral + overall shielding out of copper braiding, tin-plated
Shielding factor:	90%
Temperature range:	PVC: -20°C...+70°C FRNC: -30°C...+80°C
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	55 pF
Capac. cond./shield. per 1 m:	160 pF
Cond. resistance per 1 km:	< 130 Ω
Shield. resistance per 1 km:	< 125 Ω
Insulation resist. per 1 km:	> 1 GΩ
Surge impedance:	110 Ω

TYPE	COLOR	Ø	INNER COND.	COPPER STR./COND.	FIRE LOAD	WEIGHT	ORDER NO.
DMCK10 PVC	■ black	14.4 mm	10 x 2 x 0.15 mm <sup>2</sup>	19 x 0.10 mm	0.90 kWh/m	262 g/m	<b>100-0351-10</b>
DMCK10 SOFT-PUR-FRNC	★ black	12.2 mm	10 x 2 x 0.15 mm <sup>2</sup>	19 x 0.10 mm	0.90 kWh/m	200 g/m	<b>100-0351-10F</b>



☒ x00045



## MULTIPAIR MODULATION CABLE, FRNC

BALANCED, HALOGEN-FREE + FLAME-RETARDANT, INSULATED IN PAIRS, AL/PT FOIL SHIELDING + AL/PT FOIL AND COPPER OVERALL SHIELDING

## AUDIO [AES/EBU]

### SC-MATRIX

⊗ INSTALL ⊗ ELA

ANALOG DIGITAL FRNC HALOGEN-FREE TERRA OFC

*"Beneficent is fire's might ...*

*when man subdues and watches it." – Friedrich Schiller*

Tamed are the flames if they extinguish themselves during a fire and no hazardous gases are set free. This is ensured by a special jacket and a clever interior construction, built according to the FRNC guideline for halogen-free and flame-retardant cables. It's obligatory for any installations in public buildings.

The **SC-MATRIX** is a digital multipair or modulation cable which, owing to its large wire cross-section of 0.25 mm<sup>2</sup>/AWG23, is also suitable for installation over distances exceeding 130 m/425 ft. Due to the AL/PT foil screen around each pair and the overall screen consisting of both AL/PT foil and copper braiding, the **SC-MATRIX** offers excellent protection against external interference.

This cable is not suitable for mobile applications!

**SUITABLE FOR UNDERGROUND INSTALLATION!**

**ALSO USABLE AS AUDIO MULTIPAIR!**

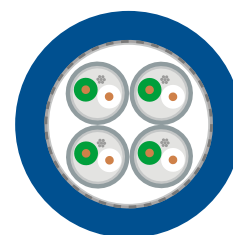
**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- To be used as an audio, modulation and AES/EBU cable
- Permanent installation in public buildings such as schools, theaters and discos
- Installation in broadcasting studios for interconnecting sound systems
- Underground installation

#### PRODUCT ADVANTAGES:

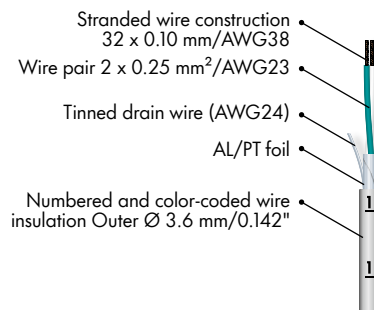
- Halogen-free and flame-retardant according to test type C (IEC60332-1 + 60332-3)
- Suitable for long distances due to the large wire cross-section of 0.25 mm<sup>2</sup>/AWG23
- Digital-capable due to the 110 Ω wave impedance
- For better identification, the wire pairs are numbered and color-coded



Sectional drawing MMC04

#### COLOR

grey	Wire pair	1 – 8
black	Wire pair	9 – 16
brown	Wire pair	17 – 24
red	Wire pair	25 – 32



Shielding  
100 %

life  
mm<sup>2</sup>  
x2x0.25

#### TECHNICAL DATA

Construction:	[xx(2LI2Y0.25 mm <sup>2</sup> )DH]CH
Jacket material:	FRNC accord. to Test Type C
AWG:	AWG23
Conductor insulation:	Foam/Skin-PE 1.6 mm
Shielding:	AL/PT foil + AL/PT foil and copper braiding overall shielding
Shielding factor:	100%
Temperature range:	-20°C...+80°C
Jacket color:	■ dark blue
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	46 pF
Capac. cond./shield. per 1 m:	105 pF
Cond. resistance per 1 km:	< 72 Ω
Insulation resist. per 1 km:	> 1G Ω
Surge impedance at 1.0 Mhz:	110 Ω
Attenuation per 100 m (20°C):	1 MHz: 1.74 dB
	5 MHz: 7.00 dB
	10 MHz: 11.30 dB
	20 MHz: 17.80 dB
	40 MHz: 29.10 dB
	60 MHz: 39.10 dB
	80 MHz: 48.30 dB
	100 MHz: 56.90 dB

TYPE	Ø	INNER CONDUCTOR	COPPER STR./COND.	FIRE LOAD	WEIGHT	ORDER NO.
MMC 02	10.0 mm	2 x 2 x 0.25 mm <sup>2</sup>	32 x 0.10 mm	0.22 kWh/m	110 g/m	100-0302-02
MMC 04	11.9 mm	4 x 2 x 0.25 mm <sup>2</sup>	32 x 0.10 mm	0.32 kWh/m	158 g/m	100-0302-04
MMC 08	15.5 mm	8 x 2 x 0.25 mm <sup>2</sup>	32 x 0.10 mm	0.51 kWh/m	288 g/m	100-0302-08
MMC 12	18.5 mm	12 x 2 x 0.25 mm <sup>2</sup>	32 x 0.10 mm	0.76 kWh/m	452 g/m	100-0302-12
MMC 16	21.5 mm	16 x 2 x 0.25 mm <sup>2</sup>	32 x 0.10 mm	0.90 kWh/m	540 g/m	100-0302-16



Ⓜ x00046



**MULTIPAIR MODULATION CABLE, FIXED INSTALLATION, FRNC/DCA AUDIO [AES/EBU]**

BALANCED, SOLID WIRES, HALOGEN-FREE + FLAME-RETARDANT, INSULATED IN PAIRS, AL/PT FOIL SHIELD. + AL/PT FOIL, COPPER OVERALL SHIELDING

**SC-LOGICABLE MP**

✗ INSTALL ✗ ELA  
ANALOG DIGITAL CPR FRNC HALOGEN-FREE OFC

*It may be a little more rigid ...*

but it's also a little less expensive. In short, this is exactly what people demand from a modulation cable with solid conductors. Due to its simple construction, the **SC-LOGICABLE** does not cost an arm and a leg, but fulfills all important criteria required for fixed installations. The **SC-LOGICABLE** multipair cable guarantees remarkable electrical specifications, i.e. wire:wire capacitance of 45 pF/m (13.1 pF/ft.), excellent overall shielding (copper braiding + aluminum foil), a halogen-free and flame-retardant jacket which complies with the toughest fire safety standards (FRNC-IEC60332.3, test type C) as well as individually insulated, numbered and shielded wire pairs (PiMF).

The advantage of solid core wires is that with relatively simple means one can achieve very good attenuation values and low capacitance, which in turn is very important for the long distances these cables are laid. Furthermore an optimal connection to LSA+ multipoint connectors is possible.

Please note that cables of this type are not suitable for mobile applications.

**FREE SAMPLE AVAILABLE!**

Safety cable **SC-LOGIC SAFETY BD/JE-H (ST) H...BD** and telecommunication cable **LOGICABLE LG/J-Y (ST) Y LG** see webshop

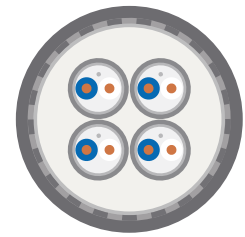


**APPLICATIONS:**

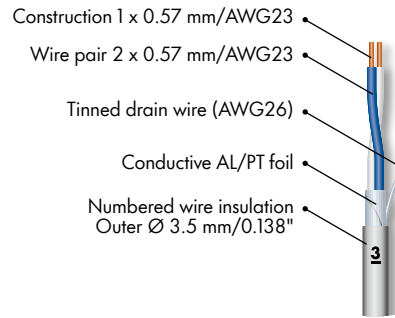
- Fixed installation in in-wall construction
- Data transmission according to AES/EBU standards in the broadcast arena

**PRODUCT ADVANTAGES:**

- Triple shielding for superb noise immunity
- Very reasonably priced
- Simultaneous transmission of high-quality analog signals and digital data in the AES/EBU format (110 Ω)
- Conforms to the highest fire protection class FRNC, according to IEC60332.3, test type C as well as CPR euro class Dca
- Very easy to work with – usable with LSA+ multipoint connectors



Sectional drawing MODF 04



With the „**Powercut PC85**“ you can make fast, clean and precise cuts (up to 6.00 mm<sup>2</sup>/AWG9)!




**TECHNICAL DATA**

Construction:	[xx(J-02YS0.57 mm)(ST)]CH
Jacket material:	FRNC (Test Type C) accord. VDE 0472 and IEC-332-3
CPR euro class:	Dca
AWG:	AWG23/1
Conductor insulation:	Foam/Skin-PE 1.5 mm
Shielding:	Copper braiding tin-plated 85% + AL foil (overall) and filler strand tin-plated AWG26 (0.4 mm) + AL foil (wire pairs)
Shielding factor:	100%
Temperature range:	-30°C...+70°C (permanent installation)
Jacket color:	■ grey RAL 7001
Packaging:	per m

**ELECTRICAL DATA**

Capac. cond./cond. per 1 m:	43 pF
Capac. cond./shield. per 1 m:	83 pF
Cond. resistance per 1 km:	< 82 Ω
Insulation resist. per 1 km:	1 GΩ
Surge impedance:	110 Ω ±5%
Attenuation per 100 m (20°C):	300 KHz: 1.4 dB
	600 KHz: 2.0 dB
	1 MHz: 2.5 dB
	10 MHz: 6.3 dB
	20 MHz: 8.6 dB

TYPE	Ø	INNER COND.	COPPER STR./COND.	FIRE LOAD	WEIGHT	ORDER NO.	NEW
MODF 01, Dca	5.5 mm	1 x 2 x 0.57 mm	1 x 0.57 mm	0.05 kWh/m	40 g/m	<b>100-1156-01C</b>	
MODF 02, Dca	9.0 mm	2 x 2 x 0.57 mm	1 x 0.57 mm	0.25 kWh/m	95 g/m	<b>100-1156-02C</b>	
MODF 04, Dca	11.1 mm	4 x 2 x 0.57 mm	1 x 0.57 mm	0.40 kWh/m	126 g/m	<b>100-1156-04C</b>	
MODF 06, Dca	12.4 mm	6 x 2 x 0.57 mm	1 x 0.57 mm	0.49 kWh/m	190 g/m	<b>100-1156-06C</b>	
MODF 08, Dca	14.0 mm	8 x 2 x 0.57 mm	1 x 0.57 mm	0.55 kWh/m	238 g/m	<b>100-1156-08C</b>	
MODF 10, Dca	15.3 mm	10 x 2 x 0.57 mm	1 x 0.57 mm	0.65 kWh/m	280 g/m	<b>100-1156-10C</b>	
MODF 12, Dca	17.2 mm	12 x 2 x 0.57 mm	1 x 0.57 mm	0.92 kWh/m	396 g/m	<b>100-1156-12C</b>	
MODF 20, Dca	22.6 mm	20 x 2 x 0.57 mm	1 x 0.57 mm	1.45 kWh/m	580 g/m	<b>100-1156-20C</b>	
MODF 24, Dca	23.6 mm	24 x 2 x 0.57 mm	1 x 0.57 mm	1.53 kWh/m	672 g/m	<b>100-1156-24C</b>	
MODF 32, FRNC	27.0 mm	32 x 2 x 0.57 mm	1 x 0.57 mm	1.98 kWh/m	770 g/m	<b>100-1156-32</b>	 x00047

## AES/EBU, DMX & POWER HYBRID CABLE

POWER + 1/2/4/8 X DMX

### SC-MONOLITH POWER DMX

⊗ STAGE ⊗ MOBILE ⊗ STUDIO ⊗ INSTALL  
ANALOG DIGITAL OFC

*When the lights begin to dance ...*

the audience is moved! But there is quite a bit of technology behind this, and cables play an integral part. The power for the spotlights and the control signals for their movements must be transmitted via cables.

The **SC-MONOLITH POWER/DMX** contains a power line with a wire cross-section of 3 x 1.5 mm<sup>2</sup> and one (**SC-MONOLITH 1**), two (**SC-MONOLITH 2**) or four (**SC-MONOLITH 4**) DMX512 lines. The **SC-MONOLITH 4** allows 2 DMX lines to be used for the transmission of intercom signals. Each DMX wire pair is shielded by a tinned copper spiral. For a better distinction both wire pairs have been numbered.

The power line was designed pursuant to VDE and equipped with a proprietary PVC jacket for additional safety. Only in the COMPACT version the extra jacket was waived in order to obtain a smaller cable diameter and a more compact construction.

Of course, the AES/EBU line can also be used as a microphone cable or as a feed line for active loudspeaker systems.

The **SC-MONOLITH 1 COMPACT** is also available as a watertight PUR version with an Aramid reinforcement on top, see chapter "Cable bulkware – miscellaneous".

**HV type includes 3 x 2.5 mm<sup>2</sup>/AWG13 power cable!**

**For lines including power, DMX and CAT, see SC-MONOCAT POWER.**

**FREE SAMPLE AVAILABLE!**



For finishing the **0.14-mm<sup>2</sup>/AWG26 DMX line**, we recommend using our HICON XLR connector plus the HI-XSR40 – **HICON strain relief for small diameters** (see the chapter "Connectors").

#### APPLICATIONS:

- Control line for DMX lighting consoles (wave impedance of 110 Ω)
- Analog + digital audio multipair with power supply

#### PRODUCT ADVANTAGES:

- Parallel control for lighting boards through one cable containing power and DMX signals
- Very flexible, yet crush-resistant due to the round jacket made of cotton and viscose rayon
- Very good shielding of the DMX lines in pairs using tinned copper spiral or copper braiding

TECHNICAL DATA	1 SC-MONOLITH 1 COMPACT	2 SC-MONOLITH 1	3 SC-MONOLITH 2
Construction:	[3LIY1.5 mm <sup>2</sup> + 1x(2LI2Y0,14 mm <sup>2</sup> )DY]VLY	[(3LIY1.5 mm <sup>2</sup> )Y+ 1x(2LI2Y0,25 mm <sup>2</sup> )CY]VLY	[(3LIY1.5 mm <sup>2</sup> )Y+ 2x(2LI2Y0,14 mm <sup>2</sup> )DY]VLY
Jacket, diameter:	Total: PVC 9.5 mm DMX 3.0 mm	Total: PVC 13.0 mm DMX: 4.0 mm Power: 6.2 mm	Total: PVC 12.3 mm DMX: 3.0 mm Power: 7.3 mm
Inner conductors:	DMX 1 x 2 x 0.14 mm <sup>2</sup> (AWG26) Power 3 x 1.5 mm <sup>2</sup> (single wires) (AWG15)	DMX: 1 x 2 x 0.25 mm <sup>2</sup> (AWG23) Power: 3 x 1.5 mm <sup>2</sup> (AWG15)	DMX: 2 x 2 x 0.14 mm <sup>2</sup> (AWG26) Power: 3 x 1.5 mm <sup>2</sup> (AWG15)
Copper strands per conductor:	DMX 36 x 0.07 mm	DMX: 14 x 0.15 mm	DMX: 36 x 0.07 mm
Conductor insulation:	Foam/Skin-PE 1.15 mm	PE 1.25 mm	PE 1.15 mm
Shielding:	Cu spiral, tinned	Cu braid, tinned	Cu spiral, tinned
Shielding factor:	95%	85%	95%
Temperature range:	-20 °C... +70 °C	-30 °C... +80 °C	-30 °C... +70 °C
Fire load per m:	0.54 kWh	0.64 kWh	0.86 kWh
Weight per m:	144 g	200 g	200 g
Packaging:	per m	per m	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	53 pF	61 pF	53 pF
Capac. cond./shield. per 1 m:	93 pF	123 pF	93 pF
Cond. resistance per 1 km:	< 130 Ω	< 78 Ω	< 135 Ω
Insulat. resistance per 1 km:	> 1 GΩ	> 20 MΩ	> 20 MΩ
Surge impedance:	110 Ω ±5 %	110 Ω ±5 %	110 Ω ±5 %



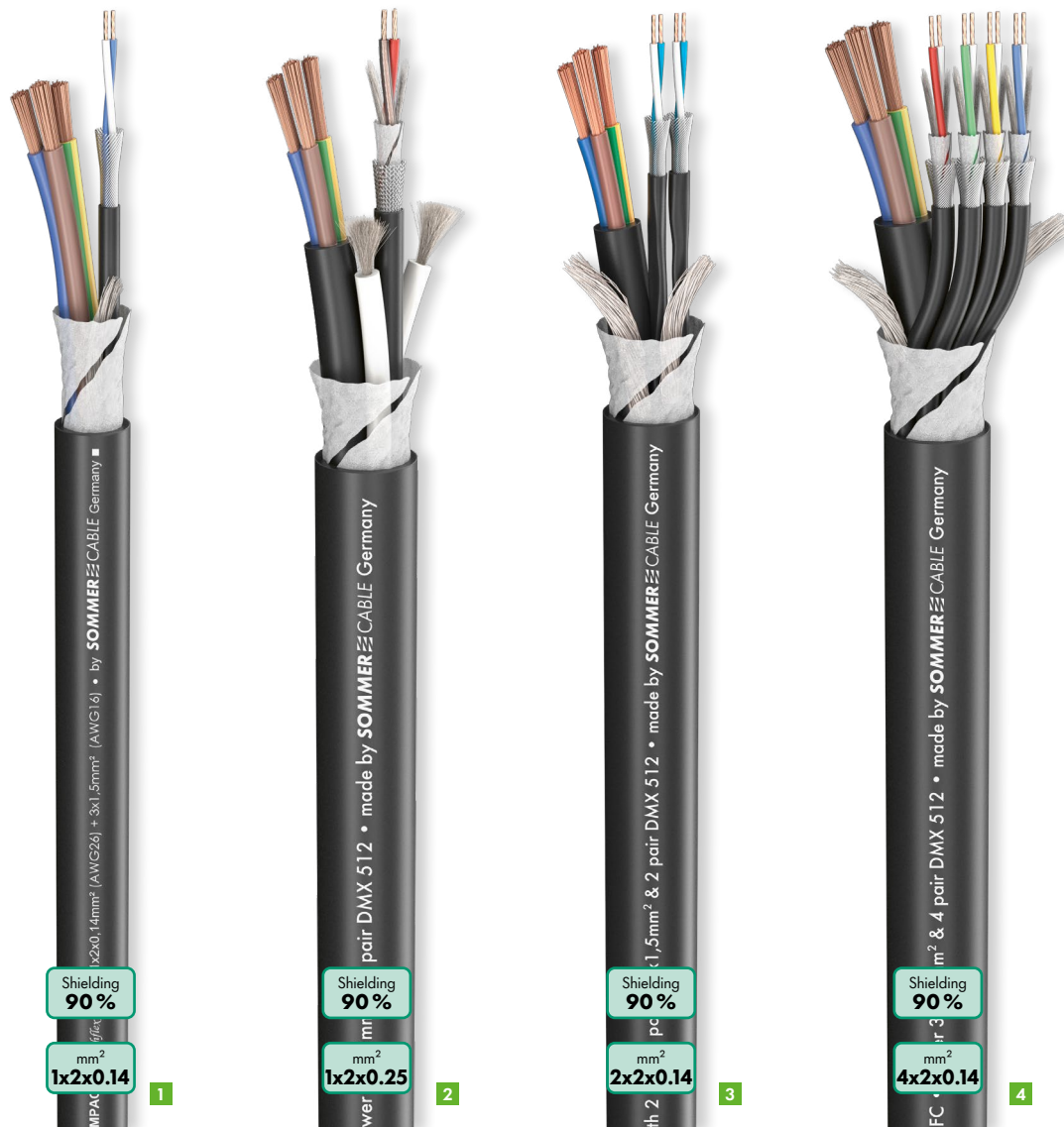
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500-0051-1

500-0051-2

ⓧ x00050



Sectional drawing



TECHNICAL DATA	4 SC-MONOLITH 4	5 SC-MONOLITH 2 HV	6 SC-MONOLITH 4 HV
Construction:	[(3LIY1.5 mm <sup>2</sup> )Y+ 4x(2LI2Y0.14 mm <sup>2</sup> )DY]VLY	[(3LIY2.5 mm <sup>2</sup> )Y+ 2x(2LI2Y0.22 mm <sup>2</sup> )CY]VLY	[(3LIY2.5 mm <sup>2</sup> )Y+ 4x(2LI2Y0.22 mm <sup>2</sup> )CY]VLY
Jacket, diameter:	Total: PVC 13.5 mm DMX: 3.0 mm Power: 7.2 mm	Total: PVC 16.0 mm DMX: 4.3 mm Power: 8.3 mm	Total: PVC 18.0 mm DMX: 4.3 mm Power: 8.3 mm
Inner conductors:	DMX: 4 x 2 x 0.14 mm <sup>2</sup> (AWG26) Power: 3 x 1.5 mm <sup>2</sup> (AWG15)	DMX: 2 x 2 x 0.22 mm <sup>2</sup> (AWG24) Power: 3 x 2.5 mm <sup>2</sup> (AWG13)	DMX: 4 x 2 x 0.22 mm <sup>2</sup> (AWG24) Power: 3 x 2.5 mm <sup>2</sup> (AWG13)
Copper strands per conductor:	DMX: 36 x 0.07 mm	DMX: 7 x 0.20 mm	DMX: 7 x 0.20 mm
Conductor insulation:	PE 1.2 mm	PE 1.5 mm	PE 1.5 mm
Shielding:	Cu spiral, tinned	Cu braid, tinned	Cu braid, tinned
Shielding factor:	95%	85%	85%
Temperature range:	-30 °C... +70 °C	-30 °C... +80 °C	-30 °C... +80 °C
Fire load per m:	1.23 kWh	0.92 kWh	1.24 kWh
Weight per m:	266 g	313 g	376 g
Packaging:	Sold by meter	Sold by meter	Sold by meter

**ELECTRICAL DATA**

Capac. cond./cond. per 1 m:	52 pF	52 pF	52 pF
Capac. cond./shield. per 1 m:	97 pF	89 pF	89 pF
Cond. resistance per 1 km:	< 140 Ω	< 80 Ω	< 78 Ω
Insulat. resistance per 1 km:	> 20 MΩ	> 100 MΩ	> 100 MΩ
Surge impedance:	110 Ω ±5 %	110 Ω ±5 %	110 Ω ±5 %

ORDER NO.

500-0051-4

500-0281-2

500-0281-4



x00050

## NETWORK, DMX & POWER HYBRID CABLE

TWISTED PAIR (S/FTP) + DMX + POWER

### SC-MONOCAT (POWER)

⊗ STAGE ⊗ MOBILE ⊗ STUDIO ⊗ INSTALL

ANALOG DIGITAL FRNC PUR HALOGEN-FREE OFC

#### Hybrid cables for any situation ...

The various hybrid lines of our MonoCAT family contain a maximum of eight network lines, which are complemented by up to four signal elements and one power line. Thus digital sound, light or video control desks can be connected by only one cable and, as the case may be, by only one plug-in step. This is also very interesting for OB van applications or in the installation and conference business.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Control of DMX lighting consoles
- Broadcast van applications
- Analog + digital audio multipair with LAN and power supply
- Permanent installation

#### PRODUCT ADVANTAGES:

- LAN signal transmission incl. mains supply in one cable
- LAN cable also usable as an additional control line
- LAN line suitable for audio transmission



TECHNICAL DATA	1 SC-MONOCAT 110C	2 SC-MONOCAT 111C ED. 2	3 SC-MONOCAT 121C
Construction:	[3LIY3x2.5 mm <sup>2</sup> + 1x(4x(2LI2Yx0.14 mm <sup>2</sup> ))(ST)CY]Y	[3LIY3x2.5 mm <sup>2</sup> + 1x(4x(2LI2Yx0.14 mm <sup>2</sup> ))(ST)CY+ 1x(2LI2Y0.14 mm <sup>2</sup> )DY]Y	[5LIY5x2.5 mm <sup>2</sup> + 1x(4x(2LI2Yx0.14 mm <sup>2</sup> ))(ST)CY+ 1x(2LI2Y0.14 mm <sup>2</sup> )DY]Y
Jacket, diameter:	PVC 13.8 mm	PVC 14.5 mm	PVC 17.3 mm
Inner conductors:	Power: 3 x 2.5 mm <sup>2</sup> CAT: 4 x 2 x 0.14 mm <sup>2</sup> (AWG26/7) DMX: -	3 x 2.5 mm <sup>2</sup> 4 x 2 x 0.14 mm <sup>2</sup> (AWG26/7) 1 x 2 x 0.14 mm <sup>2</sup>	5 x 2.5 mm <sup>2</sup> 4 x 2 x 0.14 mm <sup>2</sup> (AWG26/7) 1 x 2 x 0.14 mm <sup>2</sup>
Conductor insulation:	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Shielding:	CAT: PiMF + cu braid, tinned DMX: -	PiMF + cu braid, tinned Cu spiral, tinned	PiMF + cu braid, tinned Cu spiral, tinned
Shielding factor:	100%	100%	100 %
Temperature range:	-25 °C...+70 °C	-25 °C...+70 °C	-25 °C ... +70 °C
Fire load per m:	1.10 kWh	1.20 kWh	1.49 kWh
Weight per 1 m:	254 g	260 g	390 g
Packaging:	per m	per m	Meterware
Matching plug:	RJ45, all standards	RJ45, all standards	RJ45, alle Standards

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m (CAT):	44 pF	44 pF	44 pF
Cond. resistance per 1 km:	143 Ω	143 Ω	143 Ω
Max. section length (1 Gbit) (CAT):	100 m	100 m	100 m
Surge impedance:	100 Ω (±15 Ω)	100 Ω (±15 Ω)	100 Ω (±15 Ω)
Insulation resist. per 1 km (power):	5 GΩ	5 GΩ	5 GΩ
Operating/Nominal, testing voltage (power):	300/500 V, 2000 V	300/500 V, 2000 V	500/700V, 2500 V

ORDER NO. (PVC) 500-0151-1

502-0141-1 **NEW**

500-0131-1 **NEW**

ORDER NO. (PUR-FRNC) -

-

-



x00051





4

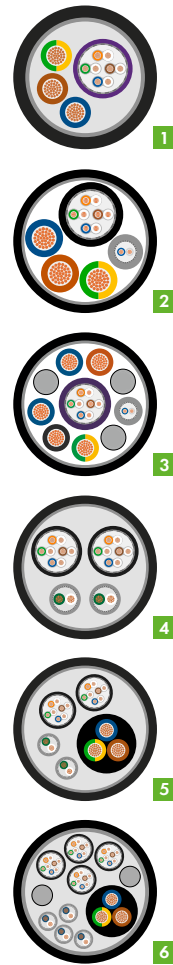


5



6

Sectional drawing



**TECHNICAL DATA**

**4 SC-MONOCAT 202**

**5 SC-MONOCAT POWER 212**

**6 SC-MONOCAT POWER 414**

Construction:	[2x(4x(2LI2Yx0.14 mm <sup>2</sup> )(ST)CY+ 2x(2LI2Y0.25 mm <sup>2</sup> )DY]Y	[(3LI(9)Y3x2.5 mm <sup>2</sup> )(II)Y+ 2x(4x(2LI2Yx0.57 mm)(ST)CY+ 2x(2LI2Y0.25 mm <sup>2</sup> )DY]Y	[(3LIY3x2.5 mm <sup>2</sup> )Y+ 4x(4x(2x0.57 mm)(ST)CY+ 4x(2x(2LI2YS0.25 mm <sup>2</sup> )ST)CY]Y
Jacket, diameter:	PVC 15.6 mm	PVC/PUR-FRNC 21,8 mm	PVC 27.0 mm
Inner conductors:	Power: -	3 x 2.5 mm <sup>2</sup>	3 x 2.5 mm <sup>2</sup>
	CAT: 2 x 4 x 2 x 0.14 mm <sup>2</sup> (AWG26/7)	2 x 4 x 2 x 0.57 mm (AWG23/1)	4 x 4 x 2 x 0.57 mm (AWG23/1)
	DMX: 2 x 2 x 0.25 mm <sup>2</sup>	2 x 2 x 0.25 mm <sup>2</sup>	4 x 2 x 0.25 mm <sup>2</sup>
Conductor insulation:	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Shielding:	CAT: PiMF + cu braid, tinned	PiMF + cu braid, tinned	PiMF + cu braid, tinned
	DMX: Cu spiral, tinned	Cu spiral, tinned	Cu braid, tinned
Shielding factor:	100%	100 %	100%
Temperature range:	PVC: -20 °C...+75 °C	-20 °C...+75 °C	-20 °C...+75 °C
	PUR: -	-40 °C...+80 °C	-
Fire load per m:	1.15 kWh	2.16 kWh	3.25 kWh
Weight per 1 m:	245 g	470 g	850 g
Packaging:	per m	per m	per m
Matching plug:	RJ45, all standards	RJ45C6XL, RJ45C6XL-A, RJ45CMXL-SW, NE8MX6	RJ45C6XL, RJ45C6XL-A, RJ45CMXL-SW, NE8MX6

**ELECTRICAL DATA**

Capac. cond./cond. per 1 m (CAT):	44 pF	42 pF	44 pF
Cond. resistance per 1 km:	80 Ω	75 Ω	80 Ω
Max. section length (1 Gbit) (CAT):	110 m	110 m	100 m
Surge impedance (CAT):	100 Ω (±15 Ω)	100 Ω (±15 Ω)	100 Ω (±15 Ω)
Insulation resist. per 1 km (power):	5 GΩ	5 GΩ	5 GΩ
Operating/Nominal, testing voltage (power):	300/500 V, 2000 V	300/500 V, 2500 V	300/500 V, 2000 V

**ORDER NO. (PVC)**

**500-0161-2**

**500-0191-2**

**500-0191-4**

**ORDER NO. (PUR-FRNC)**

-

**501-0191-2**

-



x00051

## INSTALLATION CABLE

NYFAZ

### SC-NYFAZ

INSTALL 
  ELA 
  HIFI  
 ANALOG



Sectional drawing

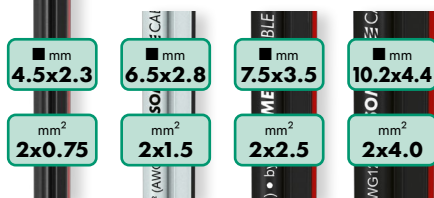
### RAZZMATAZZ - NYFAZ ...

The **SC-NYFAZ** cable is primarily used for the interior wiring of all types of electrical appliances. It is often used in audio components such as loudspeakers and effects units. It is also used in wireless technology, gambling machines and for the fast wiring of prototypes and new developments, etc. Wherever flexibility is less important, but a low price matters, the SC-NYFAZ is the perfect solution.

We supply durable and reliable quality with oxygen-free copper (99.96%).

**Available in these colors:**  
 **black** (with red stripe) → **sw**  
 **white** (with black stripe) → **ws** (only 0.75/AWG18 and 1.5 mm<sup>2</sup>/AWG15)

**FREE SAMPLE AVAILABLE!**



■ mm <b>4.5x2.3</b>	■ mm <b>6.5x2.8</b>	■ mm <b>7.5x3.5</b>	■ mm <b>10.2x4.4</b>
mm <sup>2</sup> <b>2x0.75</b>	mm <sup>2</sup> <b>2x1.5</b>	mm <sup>2</sup> <b>2x2.5</b>	mm <sup>2</sup> <b>2x4.0</b>

#### APPLICATIONS:

- Development and fast wiring of prototypes
- Fixed installation in dry and closed buildings
- Interior wiring in electrical devices

#### PRODUCT ADVANTAGES:

- Plain colors
- Reasonably priced
- Easy to work with
- Memory effect makes it easy to install

#### TECHNISCHE DATEN

Jacket, outer dimension: PVC:	4,5 x 2,3 mm	6,5 x 2,8 mm	7,5 x 3,5 mm	10,2 x 4,4 mm
Inner conductors:	2 x 0,75 mm <sup>2</sup> (AWG18)	2 x 1,5 mm <sup>2</sup> (AWG15)	2 x 2,5 mm <sup>2</sup> (AWG13)	2 x 4,0 mm <sup>2</sup> (AWG11)
Copper strands per cond.:	24 x 0,20 mm	84 x 0,15 mm	140 x 0,15 mm	226 x 0,15 mm
Temperature range:	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C
Weight per 1 m:	21 g	40 g	58 g	101 g
Packaging	100 m/500 m	100 m/500 m	100 m/500 m	100 m/500 m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	140 pF	140 pF	140 pF	160 pF
Insulation resist. per 1 km:	> 20 MΩ	> 20 MΩ	> 20 MΩ	> 20 MΩ

Ø	ORDER NO.
2 x 0.75 mm <sup>2</sup>	<b>420-0075-COLOR</b>
2 x 1.5 mm <sup>2</sup>	<b>420-0150-COLOR</b>
2 x 2.5 mm <sup>2</sup> , black	<b>420-0250-SW</b>
2 x 4.0 mm <sup>2</sup> , black	<b>420-0400-SW</b>



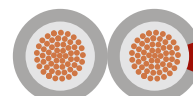
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## SPEAKER CABLE

TWIN STRAND, STANDARD

### SC-TWINCORD

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  OFC



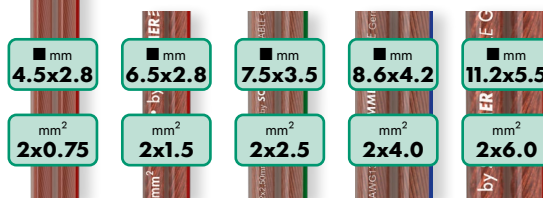
Sectional drawing

### Transparency is called for ...

not only for the jacket material, but also for the transparent transmission of sound between hi-fi amplifiers and speakers. The **SC-TWINCORD** is a cost-effective yet very dependable speaker cable with high quality copper and more dense stranding than commonly available in speaker cables. It also has a harder jacket material, so that it can be installed very easily under your carpet or in areas of your apartment that are difficult to access.

The professional sound technician uses the **SC-TWINCORD** for fixed installations or for the interior wiring of racks and speaker systems.

**FREE SAMPLE AVAILABLE!**



■ mm <b>4.5x2.8</b>	■ mm <b>6.5x2.8</b>	■ mm <b>7.5x3.5</b>	■ mm <b>8.6x4.2</b>	■ mm <b>11.2x5.5</b>
mm <sup>2</sup> <b>2x0.75</b>	mm <sup>2</sup> <b>2x1.5</b>	mm <sup>2</sup> <b>2x2.5</b>	mm <sup>2</sup> <b>2x4.0</b>	mm <sup>2</sup> <b>2x6.0</b>

#### APPLICATIONS:

- As a durable and dependable hi-fidelity speaker cable
- Interior wiring of racks and hi-fi speakers
- Fixed installation in buildings, sound studios, etc.

#### PRODUCT ADVANTAGES:

- Good quality, reasonable price
- Very flat and easy to install due to the memory effect
- Color stripe for easy polarization of leads

#### TECHNICAL DATA

Jacket, outer dimension: PVC:	4,5 x 2,3	6,5 x 2,8	7,5 x 3,5	8,6 x 4,2	11,2 x 5,5
Inner conductors [mm <sup>2</sup> ]:	2 x 0,75	2 x 1,5	2 x 2,5	2 x 4,0	2 x 6,0
	(AWG18)	(AWG15)	(AWG13)	(AWG11)	(AWG9)
Copper strands per cond. [mm]:	24 x 0,20	84 x 0,15	140 x 0,15	224 x 0,15	342 x 0,15
Temperature range:	-20 °C...+70 °C				
Fire load per m:	0,04 kWh	0,06 kWh	0,13 kWh	0,16 kWh	0,23 kWh
Weight per 1 m:	23 g	42 g	60 g	105 g	141 g
Packaging:	100/500 m	100/500 m	100/500 m	100/500 m	100/500 m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	60 pF	67 pF	57 pF	56 pF	58 pF
Insulation resist. per 1 km:	> 5 GΩ	> 5 GΩ	> 5 GΩ	> 5 GΩ	> 5 GΩ

COLOR	ORDER NO.
<input type="checkbox"/> transparent, 2 x 0.75 mm <sup>2</sup>	<b>400-0075</b>
<input type="checkbox"/> transparent, 2 x 1.5 mm <sup>2</sup>	<b>400-0150</b>
<input type="checkbox"/> transparent, 2 x 2.5 mm <sup>2</sup>	<b>400-0250</b>
<input type="checkbox"/> transparent, 2 x 4.0 mm <sup>2</sup>	<b>400-0400</b>
<input type="checkbox"/> transparent, 2 x 6.0 mm <sup>2</sup>	<b>400-0600</b>



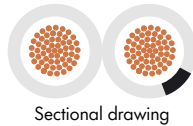
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## SPEAKER CABLE

TWIN-CONDUCTOR, HIGHLY FLEXIBLE

### SC-PRISMA

STUDIO 
  INSTALL 
  HI-FI  
 ANALOG 
  OFC



*The finer the better ...*

In the eyes and ears of many audiophiles, the finer you can make the delicate stranded wires that comprise the twin-conductors of a speaker cable, the better. Doing so increases the conductor surface, which produces even greater dynamics and pure listening pleasure.

Apart from its fine stranded construction, the **SC-PRISMA** is very similar to the **SC-TWINCORD**, but has a somewhat more refined finish and is available in several color combinations.

**FREE SAMPLE AVAILABLE!**



#### APPLICATIONS:

- Dependable, long-life hi-fi speaker cable
- Interior wiring of racks and hi-fi loudspeaker cabinets
- Permanent installation in buildings, recording studios, etc.

#### PRODUCT ADVANTAGES:

- Very flat and easy to install due to memory effect
- Colored stripe for easy identification of positive lead
- Available in different colors
- Very linear response

TECHNICAL DATA	PRISMA 215	PRISMA 225	PRISMA 240
Jacket, outer dimension: PVC:	8.0 x 3.6 mm	9.1 x 4.3 mm	9.8 x 4.5 mm
Inner conductors:	2 x 1.5 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup>	2 x 4.0 mm <sup>2</sup>
AWG:	AWG15	AWG13	AWG11
Copper strands per cond.:	191 x 0.10 mm	322 x 0.10 mm	511 x 0.10 mm
Temperature range:	-15 °C...+70 °C	-15 °C...+70 °C	-15 °C...+70 °C
Fire load per m:	0.11 kWh	0.17 kWh	0.21 kWh
Weight per 1 m:	47 g	65 g	110 g
Packaging (spool):	200 m	100 m	100 m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	60 pF	60 pF	60 pF
Insulation resist. per 1 km:	> 5 GΩ	> 5 GΩ	> 5 GΩ

#### COLOR/Ø

- white, 2 x 1.5 mm<sup>2</sup>
- white, 2 x 2.5 mm<sup>2</sup>
- white, 2 x 4.0 mm<sup>2</sup>

#### ORDER NO.

- 401-0150-WS**
- 401-0250-WS**
- 401-0400-WS**



## SPEAKER CABLE

TWIN-CONDUCTOR, HIGH-END

### SC-ORBIT 225 MK II / 240 MK II

STUDIO 
  INSTALL 
  HI-FI  
 ANALOG 
  OFC



*You can easily hear the grass grow ...*

with our **SC-ORBIT**. If you value true, natural sound and dynamics, then the **SC-ORBIT** is your cable. At the end of the audio signal path is the loudspeaker. How the music gets there is critical. If you already have good speakers, now all you need is a good cable – and the difference is audible! Here too, we offer top quality that also happens to have an attractive design, because cables are often visible. Sometimes cables need to be hidden or lay as flat as possible. Due to very tight stranding, the copper has the necessary surface for clean transmission of the treble range. The individual strands are reverse-braided, so this cable will always return to its original position, even after extreme twisting.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

Special reverse stranding of fine 0.07 mm/AWG41 single strands for optimal sound



#### APPLICATIONS:

- Wiring high-end hi-fi speaker systems
- Interior wiring of hi-fi loudspeaker cabinets and PA systems
- For permanent installation
- Wiring hi-fi car audio

#### PRODUCT ADVANTAGES:

- Absolute linear response due to fine, tightly stranded copper wires
- Highly flexible and easy to reel due to rubberlike PVC jacket
- High-end look with dark translucent outer jacket
- Very low impedance values due to special stranding

TECHNICAL DATA	ORBIT 225	ORBIT 240
Jacket, outer dimension: PVC:	10.2 x 4.8 mm	12 x 5.9 mm
Inner conductors:	2 x 2.5 mm <sup>2</sup>	2 x 4.0 mm <sup>2</sup>
AWG:	AWG13	AWG11
Copper strands per conductor:	651 x 0.07 mm	1036 x 0.07 mm
Temperature range:	-30 °C...+70 °C	-30 °C...+70 °C
Fire load per m:	0.17 kWh	0.21 kWh
Weight per 1 m:	90 g	121 g
Packaging:	100 m spool	100 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	< 60 pF	< 55 pF
Cond. resistance per 1 km:	< 7.8 Ω	< 4.5 Ω
Insulation resist. per 1 km:	> 10 MΩ	> 10 MΩ

#### COLOR/Ø

- black transparent, 2 x 2.5 mm<sup>2</sup>
- black transparent, 2 x 4.0 mm<sup>2</sup>

#### ORDER NO.

- 425-0151**
- 440-0151**



## SPEAKER CABLE

TWIN-CONDUCTOR FLAT

## SC-TRIBUN

INSTALL  ELA  HIFI  
 ANALOG  OFC



## Playing hide and seek ...

you're welcome to do this with our **SC-TRIBUN** loudspeaker cable, because it's so flat that you can barely see it once it has been laid. It can be perfectly laid under carpets, behind decorative strips, baseboards, chair rails or door trim, on the ceiling and underneath your furniture. The **SC-TRIBUN** is almost invisible. And it's all white, so that not even a mouse will recognize it! This makes it ideal for installation in buildings (hotels, bars, sporting arenas and churches).

The edges are beveled so that your shoes or wheels of a cart won't catch on it. The reverse side is flat and has a smooth finish, so that you can easily use double-side tape to adhere it to practically any flat surface. The **SC-TRIBUN** is easy to splice and only 2 mm/0.079" high!

FREE SAMPLE AVAILABLE!

mm  
12.8x2.4

mm<sup>2</sup>  
2x1.5

mm  
14.6x2.6

mm<sup>2</sup>  
2x2.5

mm  
17.5x3.0

mm<sup>2</sup>  
2x4.0

## APPLICATIONS:

- Fixed installation in architectural applications
- Almost invisible connection of your hi-fi system
- Church acoustics

## PRODUCT ADVANTAGES:

- Good audio signal quality due to the use of oxygen-free copper stranded wires
- Extremely flat and nearly invisible appearance
- Incredibly flexible and easy to work with
- Designed like a decorative strip, hence barely noticeable
- Very reasonably priced

## TECHNICAL DATA

Jacket, outer dimension: PVC:	12.8 x 2.4 mm	14.6 x 2.6 mm	17.5 x 3.0 mm
Inner conductors:	2 x 1.5 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup>	2 x 4.0 mm <sup>2</sup>
AWG:	AWG15	AWG13	AWG11
Copper strands per conductor:	47 x 4 x 0.10 mm	80 x 4 x 0.10 mm	125 x 4 x 0.10 mm
Temperature range:	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C
Weight per 1 m:	53 g	72 g	108 g
Packaging:	100/500 m	100/500 m	100/500 m

## ELECTRICAL DATA

Capac. cond./cond. per 1 m:	< 60 pF	< 60 pF	< 56 pF
Cond. resistance:	13.3 Ω	7.9 Ω	4.9 Ω
Insulat. resistance per 1 km:	> 20 MΩ	> 20 MΩ	> 20 MΩ

## COLOR/Ø

- white, 2 x 1.5 mm<sup>2</sup>
- white, 2 x 2.5 mm<sup>2</sup>
- white, 2 x 4.0 mm<sup>2</sup>

## ORDER NO.

**415-0310**  
**425-0310**  
**440-0310**



## SPEAKER CABLE

TWIN-CONDUCTOR SUPER FLAT WITH ADHESIVE STRIPS

## SC-FLUKOS «SF»

INSTALL  ELA  HIFI  
 ANALOG  OFC



## Just like a fly ...

the **SC-FLUKOS „SF“** will literally stick to the wall. The cable can be laid so that it's almost invisible as it is incredibly thin. With a cross-section of 2 x 0.5 mm<sup>2</sup>/AWG20, it is ideal for installation in home theaters, listening rooms, restaurants and churches. It is only 1.3 mm/0.051" high.

The trick is that its conductors are made of a spooled copper hose which does not only reduce the size, but also offers very good electrical values as a positive side effect. A nice practical addition is the peelable adhesive strip on the back of the cable, allowing it to be installed on the wall or underneath the carpet edge trim without further ado. For all these reasons the **SC-FLUKOS „SF“** has gained a lot of fans, particularly in the field of home entertainment, e.g. for wiring 5.1 speaker systems.

FREE SAMPLE AVAILABLE!

mm  
8.6x1.3

mm<sup>2</sup>  
2x0.5

## APPLICATIONS:

- For permanent installation in architectural applications
- Almost invisible connection of your hi-fi system
- Church acoustics

## PRODUCT ADVANTAGES:

- Good audio signal quality due to the use of oxygen-free copper stranded wires
- Extremely flat and nearly invisible appearance
- Incredibly flexible and easy to work with
- Designed like a decorative strip, hence barely noticeable
- Very reasonably priced

## TECHNICAL DATA

Jacket, outer dimension: PVC:	8.6 x 1.3 mm
Inner conductors:	2 x 0.50 mm <sup>2</sup>
AWG:	AWG20
Copper strands per conductor:	64 x 0.10 mm
Temperature range:	-30 °C...+70 °C
Fire load per m:	0.03 kWh
Weight per 1 m:	20 g
Packaging:	100 m

## ELECTRICAL DATA

Capac. cond./cond. per 1 m:	< 60 pF
Insulation resist. per 1 km:	4.5 GΩ

## COLOR/Ø

- white, 2 x 0.5 mm<sup>2</sup>

## ORDER NO.

**462-0100-205**





## HIGH-END SPEAKER CABLE

TWINAXIAL

## SC-DUAL BLUE

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  OFC



Sectional drawing

*Miracles keep happening ...*

but the huge success of the new **SC-DUAL BLUE** will not surprise anybody who has ever had the pleasure of listening to its big brother, the **SC-QUADRA BLUE**. The **SC-DUAL BLUE** is not a downgraded variant of the **SC-QUADRA BLUE**, but a speaker cable with special stranding optimized for 2-pole connections. This connection is recommended for stereo systems where the speaker connections are bridged or no bi-wiring/bi-amping option is provided.

The **SC-DUAL BLUE** stands out thanks to its intelligent architecture, timeless, modern design, and ability to deliver a punchy signal that's accurate and articulate. This cable will bring out the very best from your hi-fi system.

**FREE SAMPLE AVAILABLE!**



Ø mm  
**15.5**

mm<sup>2</sup>  
**2x4.0**

## APPLICATIONS:

- High-quality hi-fi speaker cable for demanding requirements

## PRODUCT ADVANTAGES:

- Tight, low-capacitance stranding of the 2 wire leads
- Concentric, ultra compact stranding of the 504 x 0.10 mm/AWG41 individual wire strands
- Gas-injected insulation with dual interconnection
- Shield made of tight copper braiding with 95% optical coverage
- Use of the highest grade copper with conductor-smoothing (OFC Class 6N, 99.9999%)

## TECHNICAL DATA

Construction:	(2LIY4.0 mm <sup>2</sup> )CY
Jacket, diameter:	S-PVC 15.5 mm
Number of conductors:	2 x 4.0 mm <sup>2</sup> (AWG11.2)
Copper strands per conductor:	504 x 0.10 mm
Conductor insulation:	4.1 mm Skin PE gas injected
Shielding:	copper braiding, tinned
Temperature range:	-20 °C...+70 °C
Fire load per m:	0.55 kWh
Weight per 1 m:	200 g
Packaging:	50 m spool, per m

## ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF
Cond. resistance per 1 km:	< 4.5 Ω
Insulation resist. per 1 km:	> 5 MΩ

## COLOR

■ aqua blue

## ORDER NO.

**485-0052-240**



■ x00059

## SPEAKER CABLE HIGH-END

MULTICORE

## SC-QUADRA BLUE

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  OFC



Sectional drawing

*You'll see a light at the end of the tunnel ...*

when you connect the new **SC-QUADRA BLUE** to your audiophile reference system. Harmony not only in design, but also in sound, the **SC-QUADRA BLUE** offers you the very thing you have been searching for all along: an absolutely accurate speaker cable. One that tempts you to experiment with bi-amping, bi-wiring, or just a straight-wire connection.

The OFC strands are wound into wire in such a way that they work like massive copper leads with outstanding conductivity and extraordinary damping values, which ultimately play an important role at greater cable lengths. Even at extreme lengths, the **SC-QUADRA BLUE** produces almost no loss.

Treat yourself and your audiophile system to one of the best and most beautiful speaker cables developed over the past ten years.

**FREE SAMPLE AVAILABLE!**



Ø mm  
**15.5**

mm<sup>2</sup>  
**4x4.0**

## APPLICATIONS:

- Reference-quality multiconductor loudspeaker cable for audiophiles
- For bi-amping and bi-wiring components

## PRODUCT ADVANTAGES:

- Extremely fast and linear signal transmission, even with excessive lengths
- Very easy to work with
- Numerous connecting options (bi-amping, bi-wiring, twinaxial cable)

## TECHNICAL DATA

Construction:	(4LIY4.0 mm <sup>2</sup> )CY
Jacket, diameter:	S-PVC 15.5 mm
Number of conductors:	4 x 4.0 mm <sup>2</sup> (AWG11.2)
Copper strands per conductor:	504 x 0.10 mm
Conductor insulation:	4.1 mm Skin PE gas injected
Shielding:	copper braiding, tinned
Temperature range:	-20 °C...+70 °C
Fire load per m:	0.55 kWh
Weight per 1 m:	340 g
Packaging:	50 m spool, per m

## ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF
Cond. resistance per 1 km:	< 4.5 Ω
Insulation resist. per 1 km:	> 5 MΩ

## COLOR

■ aqua blue

## ORDER NO.

**485-0052-440**



■ x00060

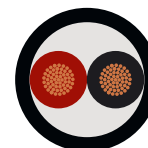


## SPEAKER CABLE

TWO-CONDUCTOR FLEXIBLE

### SC-MERIDIAN MOBILE

STAGE 
  MOBILE 
  STUDIO 
  ELA  
 ANALOG 
  OFC



Sectional drawing

*Have sound system, will travel ...*

Men at work get things done. Traveling audio engineers make sound happen day after day under very demanding conditions. Therefore, they demand a lot of their speaker cables. Ruggedness and reliability is first and foremost. No problem for our robust **SC-MERIDIAN**. This cable has been designed specifically for loudspeakers and here it meets all special technical requirements. Low-oxygen copper stranded wires ensure better sound quality and a longer life.

All PVC versions are easy to reel. For FRNC and E30 versions (IEC 228, IEC 332-1, IEC 332-3 Cat C, IEC 60331, IEC 61034-1/2, IEC 60754-2) as well as an olive-green OFFROAD version. See the following pages.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- PA systems of all kinds
- Compatible with ELA 100-volt systems
- Wiring of audiophile systems
- Mobile outdoor areas (PMB version)

#### PRODUCT ADVANTAGES:

- Flexible and easy to reel
- Small diameter
- Very durable due to special jacket compounds
- Highly affordable

TECHNICAL DATA	SP215	SP225	SP240	SP260
Construction:	(2LIY1.50 mm <sup>2</sup> )Y	(2LIY2.5 mm <sup>2</sup> )Y	(2LIY4.0 mm <sup>2</sup> )Y	(2LIY6.0 mm <sup>2</sup> )Y
Jacket, diameter:	6.8 mm	7.8 mm	9.5 mm	11.0 mm
Jacket material, insulation:	PVC			
Inner conductors:	2 x 1.5 mm <sup>2</sup> (AWG16)	2 x 2.5 mm <sup>2</sup> (AWG13)	2 x 4.0 mm <sup>2</sup> (AWG11)	2 x 6.0 mm <sup>2</sup> (AWG10)
Copper strands per conductor:	84 x 0.15 mm	140 x 0.15 mm	56 x 0.30 mm	84 x 0.30 mm
Conductor insulation, diameter:	2.62 mm	3.05 mm	4.2 mm	4.7 mm
Temperature range:	-30 °C...+70 °C			
Fire load per m:	0.28 kWh	0.33 kWh	0.46 kWh	0.63 kWh
Weight per 1 m:	78 g	106 g	150 g	192 g
Packaging:	100/500 m	100/500 m	100/500 m	100/500 m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	150 pF	136 pF	125 pF	125 pF
Cond. resistance per 1 km:	< 13 Ω	< 7.5 Ω	< 4.5 Ω	< 3.3 Ω
Insulat. resistance per 1 km:	> 5 MΩ	> 5 MΩ	> 5 MΩ	> 5 MΩ

ORDER NO.	■ dark grey	<b>415-0056</b>	<b>425-0056</b>	<b>440-0056</b>	 x00061	<b>460-0056</b>
ORDER NO.	■ black	<b>415-0051</b>	<b>425-0051</b>	<b>440-0051</b>		
ORDER NO.	□ white	<b>415-0050NE</b> (without imprint)	<b>425-0050</b>			
ORDER NO. (PMB) ★ black			<b>425-0051P</b>			

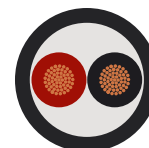
## LOUDSPEAKER CABLE INSTALLATION

TWIN-CONDUCTOR

### SC-MERIDIAN INSTALL

STUDIO 
  INSTALL 
  ELA

ANALOG 
  CPR 
  FRNC 
  HALOGEN-FREE 
  OFC 
  E30



Sectional drawing

*There's no place like home ...*

and if your professional "home" is a permanently installed sound system, then you want all parts of your system to achieve peak performance, including the cables that deliver the power from your amps to your speakers. You want to rely on them without having to treat them daintily. You want them to keep their cool when you crank up the heat. No problem for our robust **SC-MERIDIAN**. This cable has been designed specifically for loudspeakers and here it meets all specialized technical requirements. Low-oxygen copper stranded wires ensure better sound quality and a longer life. The FRNC and E30 versions (IEC 228, IEC 332-1, IEC 332-3 Cat C, IEC 60331, IEC 61034-1/2, and IEC 60754-2) are ideally suited for permanent installation.

Also available is the shielded version, **SC-MERIDIAN FG**, for outdoor and indoor installation or ELA 100-volt systems, featuring a dual screen (copper braiding plus AL foil) and a halogen-free and flame-resistant outer jacket meeting IEC 332.3 specifications. For design reasons, this version is not suitable for mobile applications.

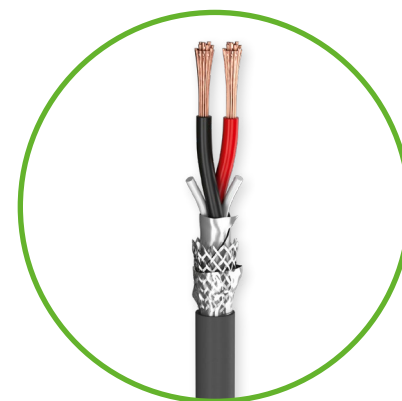
**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Sound systems of all kinds
- For permanent installation
- For ELA 100-volt systems
- Wiring of hi-fi systems

#### PRODUCT ADVANTAGES:

- Small diameter
- Very durable due to special jacket compounds
- Highly affordable



shielded version  
**MERIDIAN FG**

TECHNICAL DATA	SP215	SP225	SP240	SP260
Construction:	(2LIY1.50 mm <sup>2</sup> )Y	(2LIY2.5 mm <sup>2</sup> )Y	(2LIY4.0 mm <sup>2</sup> )Y	(2LIY6.0 mm <sup>2</sup> )Y
Jacket: color, Ø (FRNC/Cca):	★ black; 6.8 mm	★ black; 8.2 mm	★ black; 9.5 mm	★ black; 11.2 mm
Jacket: color, Ø (FRNC, shielded):	★ dark grey; 8.0 mm	★ dark grey; 8.3 mm	★ dark grey; 10.1 mm	
Jacket: color, Ø (E30):		★ orange; 11.9 mm	★ orange; 12.8 mm	
Jacket material, insulation:	FRNC version accord. to Test Type C / E30 version: FRNC, silicone			
Inner conductors:	2 x 1.5 mm <sup>2</sup> (AWG16)	2 x 2.5 mm <sup>2</sup> (AWG13)	2 x 4.0 mm <sup>2</sup> (AWG11)	2 x 6.0 mm <sup>2</sup> (AWG10)
Copper strands per conductor:	84 x 0.15 mm	50 x 0.25 mm	56 x 0.30 mm	84 x 0.30 mm
Copper strands per conductor (E30):		solid copper	solid copper	
Conductor insulation, diameter:	2.62 mm	3.05 mm	4.2 mm	4.7 mm
Conductor insulation, diameter (E30):		3.3 mm	3.9 mm	
Temperature range:	-30 °C...+70 °C (E30: -40 °C...+90 °C)			
Fire load per m:	0.29 kWh	0.38 kWh	0.54 kWh	0.81 kWh
Weight per 1 m:	78 g	106 g	150 g	226 g
Weight per 1 m (E30):		151 g	260 g	
Packaging:	100/500 m	100/500 m	100/500 m	100/500 m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	150 pF	136 pF	125 pF	125 pF
Cond. resistance per 1 km:	< 13 Ω	< 7.5 Ω	< 4.5 Ω	< 3.3 Ω
Insulat. resistance per 1 km:	> 5 MΩ	> 5 MΩ	> 5 MΩ	> 5 MΩ

ORDER NO. (FRNC/Cca)	<b>415-0051FC</b> <span style="color: red;">NEW</span>	<b>425-0051FC</b> <span style="color: red;">NEW</span>	<b>440-0051FC</b> <span style="color: red;">NEW</span>	<b>460-0051FC</b> <span style="color: red;">NEW</span>
ORDER NO. (FRNC, shielded)	<b>415-0056FG</b>	<b>425-0056FG</b>	<b>440-0056FG</b>	
ORDER NO. (E30)		<b>425-0055E30M</b> <span style="color: red;">NEW</span>	<b>440-0055E30M</b> <span style="color: red;">NEW</span>	



2 x00062

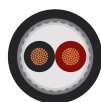


## SPEAKER CABLES, TRANSVERSELY WATERTIGHT

SALTWATER-RESISTANT, HALOGEN-FREE

### SC-AQUA MARINEX SPEAKER 225 + 240

STAGE 
  MOBILE 
  INSTALL 
  ELA  
 AQUA 
  ANALOG 
  HALOGEN-FREE 
  PUR



Sectional drawing

### Tough under pressure ...

are our new **AQUA MARINEX** speaker cables for permanent underwater use. Initially this robust cable was developed for use in theme and amusement parks. However, it also enjoys great popularity in the installation of extended outdoor events such as Christmas fairs, lake festivals or sporting events under extremely adverse conditions (e.g., equestrian events).

We have reinforced the wire leads internally, encasing them in tight copper braiding, so that the **AQUA MARINEX** can withstand high water pressure as well as mechanical strains and electrical interference. The cables can also be used in the live PA business, of course. Even though they are somewhat stiffer than standard PVC cables, they are extremely rugged.

**FREE SAMPLE AVAILABLE!**

Ø mm

8.2

Ø mm

11.2

Shielding  
85%

Shielding  
85%

mm<sup>2</sup>  
2x2.5

mm<sup>2</sup>  
2x4.0

#### APPLICATIONS:

- Permanent laying in a maximum water depth of 50 m/160 ft.
- Demanding outdoor installations (e.g., with extended events)
- Installation and usage near the coast and in shipbuilding
- Indoor and outdoor installation in leisure parks and on boats
- Underwater sound reinforcement in theme parks or water parks

#### PRODUCT ADVANTAGES:

- Saltwater and freshwater-resistant outer jacket
- Transversely watertight due to water-absorbing, pressure-compensating protective banding
- Halogen-free
- Flexible when cold and easy to reel
- UV and microbe-resistant
- Shielded by tight copper braiding

#### TECHNICAL DATA

	SPEAKER 225	SPEAKER 240
Jacket, diameter:	PUR-SR 8.2 mm	PUR-SR 11.2 mm
Inner conductors:	2 x 2.5 mm <sup>2</sup> (AWG13)	2 x 4.0 mm <sup>2</sup> (AWG11)
Copper strands per conductor:	142 x 0.15 mm	224 x 0.15 mm
Conductor insulation:	PO 2.6 mm	PO 3.8 mm
Shielding:	copper braiding + special protective banding	
Shielding factor:	85 %	85 %
Temperature range:	-40 °C...+80 °C	-40 °C...+80 °C
Max. water pressure:	5 bars	5 bars
Max. water depth:	50 m	50 m
Fire load per m:	0.28 kWh	0.55 kWh
Weight per 1 m:	117 g	178 g
Packaging:	per m	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	90 pF	80 pF
Cond. resistance per 1 km:	< 8,21 Ω	< 5,09 Ω
Shield. resistance per 1 km:	16,2 Ω	8,1 Ω
Insulation resist. per 1 km:	>1 GΩ	>1 GΩ

#### COLOR/Ø

- black, PUR-SR, 2 x 2,5 mm<sup>2</sup>
- black, PUR-SR, 2 x 4,0 mm<sup>2</sup>

#### ORDER NO.

- 425-0241AQ**
- 440-0241AQ**



☎ x00063



## LOUDSPEAKER CABLE ARAMID, TRANSVERSELY WATERTIGHT

SEAWATER RESISTANT, WITH ARAMID STRAIN RELIEF

### SC-AQUA MARINEX EL

STAGE 
  MOBILE 
  INSTALL 
  ELA  
 ANALOG 
  AQUA 
  HALOGEN-FREE 
  PUR 
  OFC 
  ARAMID

### The universal all-around solution ...

is now available in the form of the "Multi-Purpose" **SC-AQUA MARINEX EL** speaker cable which is transversely watertight as well as seawater-resistant and rodent-proof.

The transversely watertight outer jacket with integrated water-blocking tape prevents water from intruding, no matter if in continuous underwater use or in moist surroundings like e.g. in tunnel building or sediment technology. Owing to the additional aramid braid, this construction offers an excellent strain relief opportunity plus increased protection against all kinds of rodents. In the special jacket compound we do without the usual chemical additives which are perceived by rodents as „very yummy“ and often even as attracting.

An all-round carefree package for permanent installations under and above water, in buildings, outdoor areas or also for demanding mobile applications.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

Ø mm

13.0

mm<sup>2</sup>

4x4.0



#### APPLICATIONS:

- High-quality speaker cable for permanent underwater installation
- Flexible and easy to reel
- Durable, water-resistant construction for boat- and shipbuilding
- Resilient cable for installations under harsh conditions

#### PRODUCT ADVANTAGES:

- Transversely watertight due to the special PUR jacket with water-blocking tape
- Rodent protection due to aramid braid
- Highly flexible due to torsion-free construction (X-torsion) and fine litz wire design
- UV-resistant and cold-flexible (-30 °C mobile applications/-40 °C fixed installations)
- Chlorine water resistant

#### TECHNICAL DATA

	1 440	2 840
Construction:	[(4LIY4.0 mm <sup>2</sup> )(ST)]ZNI1Y	[(8LIY4.0 mm <sup>2</sup> )(ST)]ZNI1Y
Jacket, diameter:	PUR-SR 13.0 mm, with ARAMID reinforcement and special protective banding	PUR 18.0 mm, with ARAMID reinforcement and special protective banding
Inner conductors:	4 x 4.0 mm <sup>2</sup> (AWG11)	8 x 4.0 mm <sup>2</sup> (AWG11)
Copper strands per conductor:	126 x 0.20 mm	126 x 0.20 mm
Conductor insulation:	PE 3.8 mm	PE 3.8 mm
Max. tensile strength:	3600 N / 360 kg	3600 N / 360 kg
Temperature range :	-40 °C ... +80 °C	-40 °C ... +80 °C
Fire load per m:	0.95 kWh	2.30 kWh
Weight per m:	285 g	540 g
Packaging:	Sold by meter	Sold by meter

#### ELECTRICAL DATA

Capac. cond./cond. per m:	90 pF	90 pF
Cond. resistance per 1 km:	4.95 Ω	4.95 Ω
Insulation resist. per 1 km:	500 MΩ	150 MΩ
Rated voltage:	500 V	500 V
Test voltage:	2000 V	2000 V

#### COLOR

- black
- black

#### ORDER NO.

- 490-0231-440AQ** **NEW**
- 490-0231-840AQ** **NEW**



☎ x00067



## SPEAKER CABLE

TWIN-CONDUCTOR, HIGHLY FLEXIBLE, WITH SENSE CABLE

### SC-ECLIPSE SPQ240 MKII

STAGE 
  MOBILE 
  STUDIO 
  INSTALL 
  ELA 
  HIFI  
 ANALOG 
  OFC

*Beat it up, it doesn't care ...*

none the worse for all the wear, this speaker cable always returns to its original state. Even under heavy traffic, and being run over by the wheels of equipment rack/flight cases, it always bounces back. A special feature of the cable is that it includes a rayon-filled PVC smoother and a 0.50 mm<sup>2</sup>/AWG20 sense line. This cable is up to the task of withstanding even the toughest stage demands.

The **SC-ECLIPSE** consists of fine, tightly stranded OFC wires as normally found only in exclusive audiophile reference cables. For optimum conductivity, we have grouped the copper stranded wires into complex bundles. This lends the cable not only incredible flexibility, but also outstanding transparency – something you can hear even with longer cable runs by clean and clear highs, dynamic mids and increased bass punch.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

Ø mm  
**9.5**

mm<sup>2</sup>  
**2x4.0**

#### APPLICATIONS:

- PA/sound reinforcement systems
- For fixed installation
- Reference-quality connections

#### PRODUCT ADVANTAGES:

- Loss-free signal transmission even over long distances due to the use of tightly stranded copper wires
- Highly flexible due to the use of a rubberlike PVC jacket
- Extremely rugged and reliable

#### TECHNICAL DATA

Construction:	(2LIY4.0 mm <sup>2</sup> +0.5 mm <sup>2</sup> )Y
Jacket, diameter:	PVC 9.5 mm
Inner conductors:	2 x 4.0 mm <sup>2</sup> (AWG11) + 1 x 0.5 mm <sup>2</sup> (AWG20)
Copper strands per conductor:	224 x 0.15 mm
Conductor insulation, diameter:	PVC 3.6 mm
Temperature range:	-30 °C...+70 °C
Fire load per m:	0.46 kWh
Weight per 1 m:	165 g
Packaging:	100/200 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	136 pF
Cond. resistance per 1 km:	< 4.5 Ω
Insulat. resistance per 1 km:	> 5 MΩ

#### COLOR

■ grey

#### ORDER NO.

**440-0256**



x00065

## SPEAKER CABLE

COAXIAL, HIGHLY FLEXIBLE, PVC + HALOGEN-FREE/FRNC

### SC-MAGELLAN SPK

STUDIO 
  INSTALL 
  ELA 
  HIFI  
 ANALOG 
  FRNC 
  HALOGEN-FREE 
  OFC



Sectional drawing

*When spaces are tight but it's gotta be right ...*

Sometimes you're in a tight spot, where the loudspeaker cable is too close for comfort to power lines, and you want to do all you can to keep EMI at bay. For that, we have the perfect cable: a coaxial cable used where a small outer diameter is required in connection with a large wire cross-section. Especially for cable conduits where the speaker cable lies between cables which emit strong interference. Normally, copper braiding is used for coaxial cables, but that renders them unnecessarily stiff and inflexible, making reeling almost impossible. Instead, we use double counter-rotating spiral shielding for our **SPK** cables. This offers better shielding than conventional copper braidings and makes the cable incredibly flexible.

**FREE SAMPLE AVAILABLE!**

**STRONG SPK**

Ø mm  
**6.0**

mm<sup>2</sup>  
**2x2.5**

Ø mm  
**8,0**

mm<sup>2</sup>  
**2x4.0**

Ø mm  
**11.2**

mm<sup>2</sup>  
**2x6.0**

**When used as a speaker cable, the twisted screen is used as a second conductor. It has the same cross-section as the inner conductor.**

#### APPLICATIONS:

- For installation in building services engineering
- Combination with small connectors (phone plugs, XLR, etc.)
- High-end hi-fi applications

#### PRODUCT ADVANTAGES:

- Space-saving diameter due to coaxial construction
- Excellent shielding due to the dual reversely stranded
- copper spiral shielding
- Highly flexible (PVC versions only) due to the special shielding design

#### TECHNICAL DATA

	SPK225	SPK240	SPK260 (FRNC)
Construction:	LI2Y(LS)DY2x2.5 mm <sup>2</sup> ...2x4.0 mm <sup>2</sup>	...	...2x6.0 mm <sup>2</sup>
Jacket, diameter:	6.0 mm	8.0 mm	11.2 mm
Jacket material, insulation:	Standard in PVC/FRNC accord. to test type C		
Inner conductors:	2 x 2.5 mm <sup>2</sup> (AWG13)	2 x 4.0 mm <sup>2</sup> (AWG12)	2 x 6.0 mm <sup>2</sup> (AWG10)
Copper strands per cond.:	PVC: 322 x 0.10 mm	225 x 0.15 mm	
	FRNC: 140 x 0.15 mm	84 x 0.3 mm	
Shielding:	Double copper spiral, counter-rotating		
Shielding factor:	100%	100%	100%
Temperature range:	-25 °C...+70 °C		
Fire load per m:	0.18 kWh	0.32 kWh	0.44 kWh
Weight per 1 m:	73 g	135 g	196 g
Packaging:	100 m/500 m		

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	150 pF	140 pF	130 pF
Cond. resistance per 1 km:	< 7.8 Ω	< 5.0 Ω	3.3 Ω
Shield. resistance:	< 9.0 Ω	< 5.5 Ω	< 3.5 Ω
Insulat. resistance per 1 km:	> 200 MΩ	> 200 MΩ	> 200 MΩ

#### COLOR

■ black, 2.5 mm<sup>2</sup>

■ black, 4.0 mm<sup>2</sup>

★ black, 2.5 mm<sup>2</sup>, **FRNC halogen-free**

★ black, 4.0 mm<sup>2</sup>, **FRNC halogen-free**

★ black, 6.0 mm<sup>2</sup>, **FRNC halogen-free**

#### ORDER NO.

**425-0201**

**440-0201**

**425-0201F**

**440-0201F**

**460-0201F**



x00066

## SPEAKER CABLE

TWIN-CONDUCTOR

### MAJOR INVISIBLE

STAGE  MOBILE  STUDIO  ELA  
 ANALOG  OFC



Sectional drawing

*For life underground ...*

or on grassy green ground, we now offer the **MAJOR INVISIBLE** loudspeaker cable from our successful OFFROAD SERIES. We settled on this new olive green jacket color based on popular demand. This unobtrusive color makes sense, especially with outdoor installations (large events, amusement parks, Christmas fairs, Mardi Gras celebrations and open-air sporting events).

This rugged, easy-to-reel line has been custom-designed for loudspeakers and meets all special technical requirements. Low-oxygen copper stranded wires provide clearly enhanced sound and greater longevity.

Other family members of the same OFFROAD series are the **COLONEL INCREDIBLE** guitar cable and the **CAPTAIN FLEXIBLE** microphone cable.

**FREE SAMPLE AVAILABLE!**

Ø mm

**7.8**

mm<sup>2</sup>

**2x2.5**

#### APPLICATIONS:

- PA systems of all kinds
- For ELA 100-volt sound systems
- Connecting hi-fi systems

#### PRODUCT ADVANTAGES:

- Flexible and easy to reel
- Small in diameter
- Special jacket compound for excellent longevity
- Highly affordable

#### TECHNICAL DATA

Construction:	(2LIY2.5 mm <sup>2</sup> )Y
Diameter:	7.8 mm
Jacket material, insulation:	PVC
Inner conductors:	2 x 2.5 mm <sup>2</sup> (AWG13)
Copper strands per conductor:	140 x 0.15 mm
Conductor insulation, diameter:	3.05 mm
Temperature range:	-30 °C...+70 °C
Fire load per m:	0.33 kWh
Weight per 1 m:	106 g
Packaging:	100/500 m spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	136 pF
Cond. resistance per 1 km:	< 7.5 Ω
Insulat. resistance per 1 km:	> 5 MΩ

#### COLOR

■ olive green

#### ORDER NO.

**425-008M**



☎ x00066

## LOUDSPEAKER/POWER & DMX COMBO CABLE

SPECIAL CABLE FOR SENSOR CONTROL SUBWOOFER TECHNOLOGY

### SC-ELEPHANT ROBUST DMX

STAGE  MOBILE  INSTALL  ELA  
 ANALOG  DIGITAL  OFC



Ø mm

**19.5**

4x4,0 +

2x2x0,22

*We need bass ...*

Whereas conventional subwoofer designs have been known in practical use for many years and also proven to be adequately functional, the **Sensor Control Subwoofer Technology** enables to take a decisive new step towards a **complete and coherent loudspeaker setup** which offers an extended low-frequency range with a flat frequency and phase response for a perfect music reproduction with exceptional precision and definition.

Particularly for this application a custom-made cable is required for the rental industry and live events in the first place. For this purpose we have developed the **SC-ELEPHANT ROBUST DMX** power/DMX combo cable with an overall diameter of 19.5 mm. Embedded in the stranding compound of the **4 x 4 mm<sup>2</sup> speaker cable** is a **full-featured, pairwise insulated and shielded DMX cable** with a wire cross-section of **2 x 2 x 0.22 mm<sup>2</sup>**. This integrated 110-ohm control line allows to monitor sensor-control subwoofer systems now without the need for laying extra cables. Of course, the control line may also be used as an ordinary microphone cable or for tie lines.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- For the simultaneous connection of loudspeakers and subwoofers
- Rental business & live events

#### PRODUCT ADVANTAGES:

- Perfect music reproduction with exceptional precision and definition.
- Monitoring of sensor-controlled subwoofer systems without laying additional cables

#### TECHNICAL DATA

Construction:	[(2LIY4.0 mm <sup>2</sup> )Y+2(2LI2Y0.22 mm <sup>2</sup> )(ST)CY]Y
Jacket, diameter:	Total: PVC 19.5 mm (DMX: 4.3 mm)
Inner conductors:	DMX: 2 x 2 x 0.22 mm <sup>2</sup> (AWG24) Speaker: 4 x 4.0 mm <sup>2</sup> (AWG11)
Copper strands per conductor:	DMX: 7 x 0.20 mm, Speaker: 126 x 0.20 mm
Conductor insulation:	DMX: PE 1.5 mm, Speaker: PVC 4.0 mm
Shielding:	DMX: AL foil + Cu braid, tinned
Shielding factor:	100%
Temperature range:	-25 °C...+70 °C
Fire load per m:	1.3 kWh
Weight per m:	500 g
Packaging:	Sold by meter

#### ELECTRICAL DATA

Capac. cond./cond. per m:	45 pF
Capac. cond./shield. per m:	77 pF
Cond. resistance per 1 km:	DMX: max 90 Ω, Speaker: 4.95 Ω
Insulat. resistance per 1 km:	> 5 GΩ
Surge impedance:	110 Ω ±10 %



☎ x01714

**ORDER No.**

**490-0151-442** **NEW**

## SPEAKER CABLE

MULTI-CONDUCTOR

### SC-ELEPHANT

- STAGE
- MOBILE
- STUDIO
- INSTALL
- ELA
- HIFI

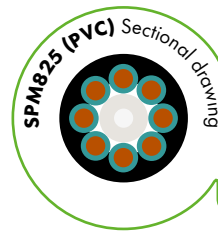
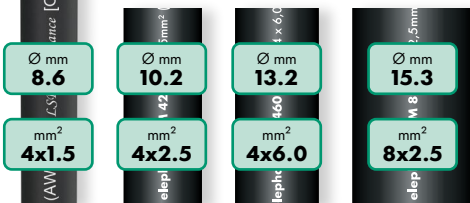
*The wires are running hot ...*

and the crowd is cheering when the speakers are turned up all the way. That's when passions are heating up, and so are the cables. This places extremely high demands on the cable. The outer jacket must be as thick as elephant skin, but it should also be flexible, robust, crush-proof, easy to reel and, of course, reusable time and again.

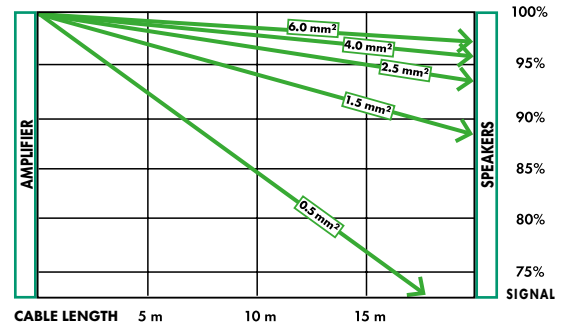
Compare it with other speaker cables. The **SC-ELEPHANT** will speak for itself – loud and clear!

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.



To avoid kinking, the 8-wire version, **SPM825 (PVC)**, comes with a special filler and a Softflex PVC jacket.



**Power handling chart:** power loss in loudspeaker cables of various cross-sections as a function of the cable length



With the „**Powercut PC85**“ you can make fast, clean and precise cuts (up to 6.00 mm²/AWG9)!

#### APPLICATIONS:

- Professional PA/sound reinforcement systems
- Surround-sound and sub-woofer systems
- For permanent installation in buildings

#### PRODUCT ADVANTAGES:

- Loss-free transmission due to special stranding
- Highly flexible and stage-proof (PVC versions only), easy to reel
- Compatible with common Neutrik Speakon connectors
- Easy to use thanks to clearly numbered insulation

#### TECHNICAL DATA

	<b>SPM415</b> (4LIY1.5 mm²)Y	<b>SPM425</b> (4LIY2.5 mm²)Y	<b>SPM460</b> (4LIY6.0 mm²)Y	<b>SPM825</b> (8LIY2.5 mm²)Y
Construction:				
Jacket, diameter:	PVC: 8.6 mm	PVC: 10.2 mm FRNC/Cca: 9.0 mm	FRNC/Cca: 13.2 mm	PVC: 15.3 mm FRNC/Cca: 12.5 mm
Jacket material, insulation:	Standard in PVC/ FRNC version halogen-free + flame-retardant			
Inner conductors:	4 x 1.5 mm² (AWG15)	4 x 2.5 mm² (AWG13)	4 x 6.00 mm² (AWG10)	8 x 2.5 mm² (AWG13)
Copper strands per conductor:	84 x 0.15 mm	78 x 0.20 mm	84 x 0.30 mm	78 x 0.20 mm
Conductor insulation, Ø:	2.6 mm	3.05 mm	3.05 mm	3.25 mm
Temperature range:	-25 °C...+70 °C	-25 °C...+70 °C	-25 °C...+70 °C	-25 °C...+70 °C
Fire load per m:	0.58 kWh	0.80 kWh	1.4 kWh	1.9 kWh
Weight per 1 m:	120 g	180 g	353 g	354 g
Jacket color:	■ black	■ black	■ black	■ black
Packaging:	per m	per m	per m	per m

#### ELECTRICAL DATA

Cond. resistance per 1 km:	< 12.6 Ω	< 7.7 Ω	< 3.3 Ω	< 7.6 Ω
Insulat. resistance per 1 km:	> 5 MΩ	> 5 MΩ	> 5 MΩ	> 5 MΩ
Operation/test voltage:	max. 300 V/2 kV	max. 300 V/2 kV	max. 300 V/2 kV	max. 300 V/2 kV

<b>ORDER NO. ■ PVC</b>	<b>490-0051-415</b>	<b>490-0051-425</b>	-	<b>490-0351-825</b>
<b>ORDER NO. ★ FRNC/Cca</b>	-	<b>490-0051-425FC NEW</b>	<b>490-0051-460FC NEW</b>	<b>490-0051-825FC NEW</b>



## SPEAKER CABLE

MULTI-CONDUCTOR

### SC-ELEPHANT ROBUST

⊗ STAGE ⊗ MOBILE ⊗ STUDIO ⊗ INSTALL ⊗ ELA ⊗ HIFI  
ANALOG CPR FRNC HALOGEN-FREE PUR OFC

*Extra rugged for daily stage use ...*

We improved the jacket stability on the 4.0 mm<sup>2</sup>/AWG11 **SC-ELEPHANT** series. Furthermore, it is flexible, robust, crush-resistant, easy to reel and, of course, reusable time and time again. Now the jacket surface is also slick and easy to keep clean. We have customized the outer wire diameter to make it easy to work with common speaker multi-pin connectors (CA-COM 8-pin, NL8, LKS19, EP5).

A particular highlight of the **SC-ELEPHANT SPM1640** is its capacity to handle 8 speaker lines in only one cable. A number of tailor-made prefab cable solutions can be found under "Multicore & Power Distribution Systems."

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

∅ mm  
**11.0**

∅ mm  
**18.5**

∅ mm  
**16.4**

∅ mm  
**26.0**

mm<sup>2</sup>  
**4x4**

mm<sup>2</sup>  
**8x4**

mm<sup>2</sup>  
**8x4 (Cca)**

mm<sup>2</sup>  
**24x4**

#### APPLICATIONS:

- Professional PA/sound reinforcement systems

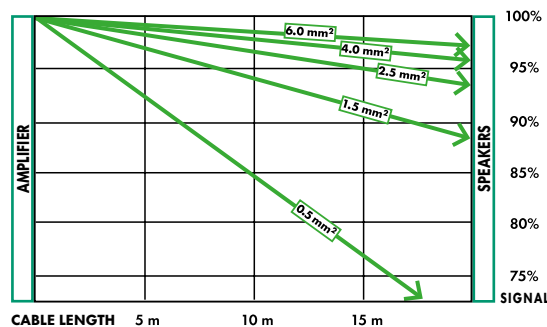
#### PRODUCT ADVANTAGES:

- Loss-free transmission due to special wire stranding
- Highly flexible and stage-ready, easy to reel
- Compatible with CA-COM 8-pin, NL8, LKS19, and EP5 connectors
- Easy to work with thanks to good insulation and clear numeric identification
- PUR version transversely watertight



To avoid kinking, we have provided the 8-wire version, **SPM840** (PVC), with a special filler and a Soffflex PVC jacket.

Power cables see: "Bulk cable - Various".



**Power handling chart:** power loss in loudspeaker cables of various cross-sections as a function of the cable length

TECHNICAL DATA	SPM440 (4LIY4.0 mm <sup>2</sup> )Y	SPM840 PVC/PUR (8LIY4.0 mm <sup>2</sup> )Y	SPM840 FRNC/CCA (8LIY4.0 mm <sup>2</sup> )Y	SPM2440 (24LIY4.0 mm <sup>2</sup> )Y
Construction:				
Jacket, diameter:	11.0 mm	18.5 mm	16.4 mm	26.0 mm
Jacket material, insulation:	Standard in PVC, FRNC version halogen-free + flame-retardant, PUR version flame-retardant + self-extinguishing			
Inner conductors:	4 x 4 mm <sup>2</sup> (AWG11)	8 x 4 mm <sup>2</sup> (AWG11)	8 x 4 mm <sup>2</sup> (AWG11)	24 x 4 mm <sup>2</sup> (AWG11)
Copper strands per conductor:	224 x 0.15 mm	128 x 0.20 mm	48 x 0.31 mm	133 x 0.19 mm
Conductor insulation, ∅:	3.75 mm	3.75 mm	4.0 mm	3.65 mm
Temperature range:	PVC+FRNC: -25 °C...+70 °C / PUR: -30 °C...+70 °C			
Fire load per m:	0.85 kWh	2.25 kWh	2.25 kWh	3.77 kWh
Weight per 1 m:	246 g	570 g	570 g	1500 g
Jacket color:	PVC+FRNC: ■ black			
Packaging:	per m	per m	per m	per m

#### ELECTRICAL DATA

Cond. resistance per 1 km:	< 4.5 Ω	< 4.5 Ω	< 4.5 Ω	< 4.5 Ω
Insulat. resistance per 1 km:	> 5 MΩ	> 5 MΩ	> 5 MΩ	> 5 MΩ
Operation/test voltage:	PVC+FRNC: max. 300 V/2 kV			

ORDER NO. ■ PVC 490-0051-440

490-0351-840

ORDER NO. ■ FRNC/Cca 490-0051-440FC **NEW**

490-0051-840FC **NEW**

ORDER NO. ■ PUR 490-0251-440

490-0351-840P **NEW**



490-0051-2440 **NEW**

2x00070



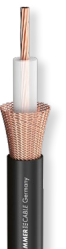





# BULK CABLE – VIDEO









Simply good vibes.

(AWG14) • by SOMMER CABLE Germany

## OVERVIEW BULK CABLE VIDEO

						
<b>Name:</b>	<b>RG8/U</b> △ <b>RG213/UBX</b>	<b>RG58C/U</b>	<b>RG58C/U LL</b>	<b>RG174A/U</b>	<b>RG213/U</b>	<b>RG213/LL</b> △ <b>HF400TT</b>
<b>Page:</b>	<b>76</b>	<b>76</b>	<b>76</b>	<b>76</b>	<b>77</b>	<b>77</b>
Type:	RG/U Coaxial Cable 50 Ω					
Jacket-Ø (outer dimension) [mm]:	9.5	5.0	5.0	2.8	10.3	10.3
Ø Inner conductors [mm]:	1x1.85 AWG13	1x0.78 AWG20	1x1.02 AWG18	1x0.42 AWG26	1x1.98 AWG12	1x2.74 AWG10
Solid wire:			■			■
Insulation:	PE	PE	Foam/Skin-PE	PE	PE	Foam/Skin-PE
Copper spiral shielding:						
Copper cross-mesh shielding:	■	■	■	■	■	■
Foil shield:			■			■
Fleece shield, conductive:						
HD-SDI(HDTV)/3G-SDI:						
6G-SDI/12G-SDI:						
Halogen-free/FRNC/PUR:		■/■/-				
CPR classification:						
AQUA/E30/TERRA/ARAMID:						
Mobile/Installation/ELA:	-/■/■	-/■/■	-/■/■	-/■/■	-/■/■	-/■/■
Shielding factor:	92 %	92 %	92 %	92 %	92 %	100 %
Capacity cond./shield. per 1 m [pF]:	101	99	82	101	101	80
Surge impedance [Ω]:	50	50	50	50	50	50
Velocity factor:	0.66	0.66	0.66	0.66	0.66	0.84
Attenuation per 100 m at 100 MHz [dB]:	7.8	15.0	10.3	27.4	7.0	3.6

Color:	Type:	ORDER NO.					
■ black	PVC	<b>600-0511</b>	<b>600-0401</b>	<b>600-0401LL</b>	<b>600-0501</b>	<b>600-0551</b>	<b>600-0551HF</b>
	FRNC	-	<b>600-0401F</b>	-	-	-	-

						
<b>Name:</b>	<b>RG59B/U</b>	<b>SC-ASTRAL LLX 120 dB / &amp; AQUA-ARAMID</b>	<b>SC-ASTRAL HD ECA</b>	<b>SC-ASTRAL PRO SERIES 0.7/2.9 HD</b>	<b>SC-ASTRAL PRO SERIES 0.8/3.7 HD</b>	<b>SC-ASTRAL PRO SERIES 1.6/7.3 HD</b>
<b>Page:</b>	<b>77</b>	<b>78</b>	<b>78</b>	<b>79</b>	<b>79</b>	<b>79</b>
Type:	RG/U Coaxial Cable 75 Ω	SAT-cable HD-SDI / HDTV	SAT-cable HD-SDI / HDTV	SAT-cable HD/UHD/DIGITAL PROFESSIONAL		
Jacket-Ø (outer dimension) [mm]:	6.2	6.8 / 8.5	6.8	4.6 / 9x4.6	5.6	10.3
Ø Inner conductors [mm]:	1x0.60	1x1.13	1x1.0	1 / 2 x 0.65	1 x 0.8	1 x 1.6
	AWG23	AWG17	AWG18	AWG22	AWG20	AWG14
Solid wire:	■	■	■	■	■	■
Insulation:	PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Copper spiral shielding:						
Copper cross-mesh shielding:	■	■	■	■	■	■
Foil shield:		■	■ ■	■ (■)	■ ■	■ ■
Fleece shield, conductive:						
HD-SDI(HDTV)/3G-SDI:		■/-	■/-	■/-	■/-	■/-
6G-SDI/12G-SDI:						
Halogen-free/FRNC/PUR:		■/-/■	■/■/-			■/-/-
CPR classification:			Eca			
AQUA/E30/TERRA/ARAMID:		■/-/-/■				-/-/■/-
Mobile/Installation/ELA:	-/■/■	-/■/-	-/■/-	-/■/■	-/■/■	-/■/■
Shielding factor:	92 %	100 %	100 %	100 %	100 %	100 %
Capacity cond./cond. per 1 m [pF]:	67			55	55	55
Surge impedance [Ω]:	75	75	75	75	75	75
Velocity factor:	0.66					
Attenuation per 100 m at 100 MHz [dB]:	11.1	5.5 / 5.6	6.1	8.8	7.2	4.1

Color:	Type:	ORDER NO.					
■ black	PVC	<b>600-0451</b>	-	-	-	-	-
	PUR, AQUA-ARAMID, 1 x 1,13 mm	-	<b>600-0961AQ-LLX</b>	-	-	-	-
	PE, 1x1.6 mm	-	-	-	-	-	<b>601-0991P</b>
□ white	PVC, 1 x 0.65 mm	-	-	-	<b>601-0930</b>	-	-
	PVC, 1 x 0.80 mm	-	-	-	-	<b>601-0950</b>	-
	PVC, Eca 1 x 1.00 mm	-	-	<b>601-0970C</b>	-	-	-
	PVC, 1 x 1.13 mm	-	<b>600-0960LLX</b>	-	-	-	-
	PVC, 2 x 0.65 mm	-	-	-	<b>601-0940</b>	-	-

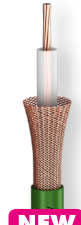





BULK CABLE - VIDEO



Name:	SC-MONOMAX	TRANSIT MINI FLEX	SC-MONOMAX HD	SC-SLIMLINE (RCB)	TRANSIT 2/3/5/7 HD	TRANSIT MOBILE PUR	SC-ALTERA SPLIT HIGHFLEX
Page:	80	80	81	81	82	83	83
Type:	Video Cable 0.3L/1.8		Video Cable 0.4/1.9	Video Cable 0.6/2.8	Video Cable 0.6/2.8	Video Cable/multi-coaxial	Video Component Cable
Jacket-Ø (outer dimension) [mm]:	2.7	8.2/9.6	3.6	4.2	10.2 – 15.0	15.3	18.0 x 6.2
Ø Inner conductors [mm]:	1x0.32	3x0.32 / 5x0.32	1 x 0.41	1 x 0.60	x0.60	7x0.66	3x0.66
	AWG28	AWG28	AWG26	AWG23	AWG23	AWG22	AWG22
Solid wire:			■	■	■		
Insulation:	Foam/Skin-PE	Foam/Skin-PE	Gas Injected-PE	Gas Injected-PE	Gas Injected Foam/Skin-PE	Foam/Skin-PE	PE
Copper spiral shielding:							
Copper cross-mesh shielding:	■	■	■	■	■	■	■
Foil shield:			■	■	■		■
Fleece shield, conductive:							
HD-SDI(HDTV)/3G-SDI:			■/■	■/-	■/-		
6G-SDI/12G-SDI:							
Halogen-free/FRNC/PUR:				■/■/-	■/■/-	■/■/■	
CPR classification:			Eca				
AQUA/E30/TERRA/ARAMID:							
Mobile/Installation/ELA:	-/■/-	■/■/-	-/■/-	-/■/■	■/■/■	■/■/■	-/■/-
Shielding factor:	95 %	95 %	100 %	100 %	100 %	95 %	100 %
Capacity cond./shield. per 1 m [pF]:	56	56	53	53	55	53	56
Surge impedance [Ω]:	75	75	75	75	75	75	75
Velocity factor:		0.66	0.85	0.82		0.82	
Attenuation per 100 m at 100 MHz [dB]:	21.5	21.5	16.3	9.7	10.6	9.4	8.8


Color:	Type:	ORDER NO.						
■ black	PVC, 1x0.40 mm	-	-	600-0041C	-	-	-	-
	PVC, 1x0.60mm	-	-	-	600-0851	-	-	-
	PVC, 2x0.60 mm	-	-	-	-	600-0851-02	-	-
	PVC, 3x0.60 mm	-	-	-	-	600-0851-03	-	-
	PVC, 5x0.60 mm	-	-	-	-	600-0851-05	-	-
	PVC, 7x0.60 mm	-	-	-	-	600-0851-07	-	-
	FRNC, 1x0.60 mm	-	-	-	600-0851F	-	-	-
	FRNC, 2x0.60 mm	-	-	-	-	600-0851-02F	-	-
	Antistatic-PVC, 1x0.32 mm	600-0251-01	-	-	-	-	-	-
	Antistatic-PVC, 3x0.32 mm	-	600-0251-03	-	-	-	-	-
Antistatic-PVC, 5x0.32 mm	-	600-0251-05	-	-	-	-	-	
■ green	PVC, 1x0.60 mm	-	-	-	600-0854	-	-	-
	Antistatic-PVC, 1x0.32 mm	600-0254-01	-	-	-	-	-	-
■ blue	Antistatic-PVC, 1x0.32 mm	600-0252-01	-	-	-	-	-	-
	PVC, 3x0.60 mm (strand)	-	-	-	-	-	-	600-0712
	PVC, 3x0.60 mm (strand), without imprint	-	-	-	-	-	-	600-0712NE
■ orange	PVC, 1x0.60 mm	-	-	-	600-0855	-	-	-
■ violet	PVC, 1x0.60 mm	-	-	-	600-0858	-	-	-
□ white	Antistatic-PVC, 1x0.32 mm	600-0250-01	-	-	-	-	-	-
■ red	Antistatic-PVC, 1x0.32 mm	600-0253-01	-	-	-	-	-	-
■ grey	PUR, 7x0.60mm (strand)	-	-	-	-	-	600-0646-07	-








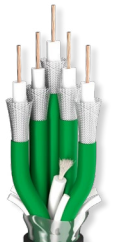
						
Name:	<b>SC-FOCUSLINE L HIGHFLEX</b>	<b>SC-FOCUSLINE MS HIGHFLEX</b>	<b>SC-AQUA MARINEX VIDEO 0.6L/3.7</b>	<b>SC-FOCUSLINE PUR</b>	<b>SC-VECTOR (RCB) 0.8/3.7</b>	<b>SC-VECTOR (RCB) 2x/4x0.8/3.7</b>
Page:	<b>84</b>	<b>84</b>	<b>85</b>	<b>85</b>	<b>86</b>	<b>86</b>
Type:	Video Cable 0.6/3.7		Video/instrument cable 0.6L/3.7 Transversely watertight	Video Cable 0.75L/3.4 PUR	Video Cable 0.8/3.7	
Jacket-Ø (outer dimension) [mm]:	6.2	6.2	6.4	5.8	6.0	15.0/17.0
Ø Inner conductors [mm]:	1 x 0.53	1x0.60	1x0.60	1x0.67	1 x 0.80	x 1 x 0.80
	AWG24	AWG23	AWG23	AWG22	AWG20	AWG20
Solid wire:		■			■	■
Insulation:	PE	PE	PO	Foam/Skin-PE	Gas Injected PE	Gas Injected PE
Copper spiral shielding:						
Copper cross-mesh shielding:	■	■	■	■	■	■
Foil shield:					■	■
Fleece shield, conductive:		■				
HD-SDI(HDTV)/3G-SDI:					■/■	■/■
6G-SDI/12G-SDI:					■/-	■/-
Halogen-free/FRNC/PUR:		■/■/-	■/-/■	■/-/■	■/■/-	
CPR classification:	Eca				Dca	
AQUA/E30/TERRA/ARAMID:			■/-/-/-			
Mobile/Installation/ELA:	■/■/■	■/■/■	■/■/■	■/■/■	■/■/■	■/■/■
Shielding factor:	92 %	100 %	90 %	75 %	100 %	100 %
Capacity cond./shield. per 1 m [pF]:	67	67	70	55	52.9	52.9
Surge impedance [Ω]:	75	75	75	75	75	75
Velocity factor:	0.66	0.66	0.66	0.80	0.82	0.82
Attenuation per 100 m at 100 MHz [dB]:	10.2	10.5	11.2	9.9	8.0	8.0

Color:	Type:	ORDER NO.					
■ black	PVC, 1x0.60 mm (strand)	<b>600-0051LC</b>	-	-	-	-	-
	FR-PVC, 1x0.60 mm	-	<b>600-0051MS</b>	-	-	-	-
	PVC, 1x0.75 mm (strand)	-	-	-	<b>600-0071L</b>	-	-
	PVC, 1x0.80 mm	-	-	-	-	<b>600-0161</b>	-
	PVC, 4x0.80 mm	-	-	-	-	-	<b>600-0161-04</b>
	PUR, 1x0.60 mm (strand)	-	-	<b>600-0241AQ</b>	-	-	-
■ green	PVC, 1x0.60 mm (strand)	<b>600-0054LC</b>	-	-	-	-	-
	FR-PVC, 1x0.60 mm	-	<b>600-0054MS</b>	-	-	-	-
	PVC, 1x0.80 mm	-	-	-	-	<b>600-0164</b>	-
■ blue	PVC, 1x0.80 mm	-	-	-	-	<b>600-0162</b>	-
	PVC, 2x0.80 mm	-	-	-	-	-	<b>600-0162-02</b>
	PVC, 4x0.80 mm	-	-	-	-	-	<b>600-0162-04</b>
	FRNC/Dca, 1x0.80 mm	-	-	-	-	<b>600-0162FC</b>	-
■ red	PVC, 1x0,80 mm	-	-	-	-	<b>600-0163</b>	-







**i** This is an overview of the maximum transmission lengths of our video cables, sorted by SMPTE standard or data rate respectively.









BULK CABLE - VIDEO

						
<b>Name:</b>	<b>SC-RG CLASSIC BROADCAST 1.0/4.8</b>	<b>SC-AQUA MARINEX VIDEO 1.2L/4.8</b>	<b>SC-VECTOR PLUS 1.2L/4.8DZ</b>	<b>SC-VECTOR PLUS ..x 1.2L/4.8DZ</b>	<b>SC-VECTOR PLUS 1.2L/5.0</b>	<b>SC-VECTOR PLUS 5x1.2L/5.0</b>
<b>Page:</b>	<b>87</b>	<b>87</b>	<b>88</b>	<b>88</b>	<b>89</b>	<b>89</b>
Type:	Video Cable 1.0/4.8	Video Cable 1.02L/4.8 Transversely watertight	Video Cable 1.2L/4.8		Video Cable 1.2L/5.0	Video Cable 5x1.2L/5.0
Jacket-Ø (outer dimension) [mm]:	7,1	7,4	7,1	21,8 / 28,5	6,95	22,1
Ø Inner conductors [mm]:	1 x 1.0 AWG18	1x1.0 AWG18	1x1.06 AWG18	4 x / 7 x 1.06 AWG18	1x1.06 AWG18	5 x 1.06 AWG18
Solid wire:	■					
Insulation:	Gas Injected PE	PO	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Copper spiral shielding:						
Copper cross-mesh shielding:	■	■ ■	■ ■	■ ■	■	■
Foil shield:	■				■	■
Fleece shield, conductive:						
HD-SDI(HDTV)/3G-SDI:	■/■	■/■	■/■	■/■	■/■	■/■
6G-SDI/12G-SDI:	■/-	■/-	■/-	■/-	■/-	■/-
Halogen-free/FRNC/PUR:	■/■/-	■/-/■	■/■/■	-/-/■	■/■/-	■/■/-
CPR classification:	Dca				Dca/Cca	
AQUA/E30/TERRA/ARAMID:		■/-/-/-				
Mobile/Installation/ELA:	-/■/■	■/■/■	■/■/■	■/■/■	■/■/■	■/■/■
Shielding factor:	100 %	90 %	100 %	100 %	100 %	100 %
Capacity cond./shield. per 1 m [pF]:	53	52	53	53	52	52
Surge impedance [Ω]:	75	75	75	75	75	75
Velocity factor:	0.82	0.78	0,86	0,86	0,80	0,80
Attenuation per 100 m at 100 MHz [dB]:	6.2	7.2	6,7	6,7	6,5	6,5

Color:	Type:	ORDER NO.					
■ black	PUR, 1x1.0 mm (strand)	-	<b>605-0241AQ</b>	-	-	-	-
	PVC, 5 x 1.20 mm (strand)	-	-	-	-	-	<b>600-0171-05</b>
	Soft PUR FRNC, 1x1.20mm (strand)	-	-	<b>600-0211</b>	-	-	-
■ green	PVC, 1x1.0 mm	<b>600-0144</b>	-	-	-	-	-
	PVC, 1 x1.20 mm (strand)	-	-	-	-	<b>600-0174</b>	-
	PVC, 5 x1.20 mm (strand)	-	-	-	-	-	<b>600-0174-05</b>
	Soft PUR FRNC, 1x1.20 mm (strand)	-	-	<b>600-0214</b>	-	-	-
	PMB, 4 x1.20 mm (strand)	-	-	-	<b>600-0214-04</b>	-	-
	PMB, 7 x1.20 mm (strand)	-	-	-	<b>600-0214-07</b>	-	-
	FRNC/Dca, 1x1.0 mm	<b>600-0144FC</b>	-	-	-	-	-
	FRNC/Dca, 1 x1.20 mm (strand)	-	-	-	-	<b>600-0174FC</b>	-
	FRNC/Cca, 1x1.20 mm (strand)	-	-	-	-	<b>600-0274FC</b>	-
FRNC, 5 x1.20 mm (strand)	-	-	-	-	-	<b>600-0174-05F</b>	



						
Name:	<b>SC-VECTOR PLUS 1.3/5.7</b>	<b>SC-VECTOR PLUS RCB MOBILE 1.6L/7.3</b>	<b>SC-VECTOR PLUS RCB INSTALL 1.6/7.0</b>	<b>SC-VECTOR PLUS RCB 4K RG11/U 1.6/7.1</b>	<b>SC-CLASSIC CONTROL</b>	<b>SC-OBSERVER 1 HD</b>
Page:	<b>90</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>92</b>	<b>92</b>
Type:	Video Cable 1.3/5.7	Video Cable 1.6L/7.3	Video Cable 1.6/7.0	Video Cable 1.6/7.1	RG59 + Control	75 Ω + Power Combo cable
Jacket-Ø (outer dimension) [mm]:	8,1	10,3	10,2	10,1	10,5	9,0
Ø Inner conductors [mm]:	1x1.3 AWG16	1x1.4 AWG16	1x1.6 AWG14	1x1.63 AWG14	1x0.60 AWG23/1	1x0.60 AWG23/1
Solid wire:	■	■	■	■	■	■
Insulation:	Foam/Skin-PE	Skin-Foam-Skin-PE	Gas Injected PE	Gas Injected PE	PE	Gas Injected PE
Copper spiral shielding:						
Copper cross-mesh shielding:	■	■ ■	■	■	■	■
Foil shield:	■ ■		■	■ ■		■
Fleece shield, conductive:						
HD-SDI(HDTV)/3G-SDI:	■/■	■/■	■/■	■/■		■/-
6G-SDI/12G-SDI:	■/■	■/-	■/■	■/■		
Halogen-free/FRNC/PUR:			■/■/-			
CPR classification:	Eca		Dca			
AQUA/E30/TERRA/ARAMID:						■/-/-/-
Mobile/Installation/ELA:	■/■/■	■/■/■	■/■/■	■/■/■	-/■/-	-/■/-
Shielding factor:	100 %	100 %	100 %	100 %	90 %	100 %
Capacity cond./shield. per 1 m [pF]:	53	52,4	53	52,5	67	55
Surge impedance [Ω]:	75	75	75	75	75	75
Velocity factor:	0,84	0,82	0,80	0,85		
Attenuation per 100 m at 100 MHz [dB]:	4,8	4,3	3,4	4,1	7,7	10,8

Color:	Type:	ORDER NO.					
■ black	PVC	<b>600-0131</b>	<b>600-0221</b>	-	<b>600-0281</b>	-	-
	PVC, without imprint	<b>600-0131NE</b>	-	-	-	-	-
	PVC, 1 x Coax + 2 x 0.75 mm <sup>2</sup>	-	-	-	-	<b>600-0481-2075</b>	-
	PVC, 1 x Coax + 3 x 0.75 mm <sup>2</sup>	-	-	-	-	-	<b>600-2101</b>
■ green	PVC, 1 x 1.60 mm (strand)	-	<b>600-0224</b>	-	-	-	-
	PVC, 1 x 1.60 mm	-	-	<b>600-0234</b>	-	-	-
	FRNC/Dca, 1 x 1.60 mm	-	-	<b>600-0234FC</b>	-	-	-

						
Name:	<b>TRANSIT HighSpeed HDMI with Ethernet</b>	<b>TRANSIT MC 1001 HD</b>	<b>TRANSIT MC 2001 HD</b>	<b>TRANSIT MC 1101 HD</b>	<b>TRANSIT MC 1031 HD</b>	<b>TRANSIT MC 120 HD</b>
Page:	<b>93</b>	<b>94/95</b>	<b>94/95</b>	<b>94/95</b>	<b>94/95</b>	<b>96</b>
Type:	HDMI Cable	Video/CAT and power hybrid cable		Video/ CAT.7 and Audio hybrid cable	Video/CAT.7 and power hybrid cable	Video/Audio hybrid cable
Jacket-Ø (outer dimension) [mm]:	9.6	19.5	20.4	19.6	19.9	10.0
Ø Inner conductors [mm]:	5 x (2 x 0.50 mm) + 1 x (2 x 0.14 mm <sup>2</sup> ) + 2 x 0.14 mm <sup>2</sup> AWG24/26	1x1.2 + 1x(4x2x0.26 mm <sup>2</sup> ) AWG18	2x1.2+ 1x(4x2x0.26 mm <sup>2</sup> ) AWG18	1x1.2+ 1x(4x2x0.26 mm <sup>2</sup> ) + 1x(2x0.15 mm <sup>2</sup> ) AWG18/26 (audio)	1x1.2+ 1x(4x2x0.57) + 3x2.5 mm AWG18	1x0.6 + 2x2x0.14 mm <sup>2</sup> AWG23/26 (audio)
Solid wire:						■
Insulation:	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Copper spiral shielding:						
Copper cross-mesh shielding:	■	■ ■	■ ■	■ ■	■ ■	■
Foil shield:	■					■
Fleece shield, conductive:						
HD-SDI(HDTV)/3G-SDI:		■/■	■/■	■/■	■/■	■/-
6G-SDI/12G-SDI:		■/-	■/-	■/-	■/-	
Halogen-free/FRNC/PUR:						
CPR classification:						
AQUA/E30/TERRA/ARAMID:						
Mobile/Installation/ELA:	-/■/-	■/■/-	■/■/-	■/■/-	■/■/-	■/■/■
Shielding factor:	100 %	100 %	100 %	100 %	100 %	100% (video)
Capacity cond./shield. per 1 m [pF]:		53	53	53 (video) 80 (audio)	53	67 (video) 95 (audio)
Surge impedance [Ω]:	100	75	75	75	75	75
Velocity factor:	0.73	0.86	0.86	0.86	0.86	
Attenuation per 100 m at 100 MHz [dB]:	3.9	6.7	6.7	6.7	6.7	9.7

Color:	Type:	ORDER NO.				
■ black	PVC	<b>612-0251</b>	-	-	-	-
	PVC, 1 x Coax + 2x2x0.14 mm <sup>2</sup>	-	-	-	-	<b>600-0791</b>
	PVC, 1 x Coax + 1 x CAT	-	<b>600-1001</b>	-	-	-
	PVC, 1 x Coax + 1 x CAT + Power	-	-	-	<b>600-1031</b>	-
	PVC, 2 x Coax + 1 x CAT	-	-	<b>600-2001</b>	<b>600-2811-01</b>	-



Name:	 TRANSIT MC 123 HD	TRANSIT MC 2235 HD	TRANSIT MC 2030 HD	TRANSIT MC 3202 HD	TRANSIT MC 3231 HD-SDI	 TRANSIT MC 3201 HD-SDI
Page:	96	96	97	97	98	98
Type:	Video/audio/(control)/power hybrid cable		Video/power combo cable (HD-SDI)	Video/audio/control camera cable (UHD-SDI)	Video/audio/(power)/CAT 10 GBit combo cable [HD-SDI]	
Jacket-Ø (outer dimension) [mm]:	14.2	15.5	18.8	20.9	24.0	20.5
Ø Inner conductors [mm]:	Video: 1x0.6 (AWG23/1) Audio: 2x2x0.14 mm <sup>2</sup> (AWG26) Power: 3 x15 mm <sup>2</sup> Control: CAT:	2 x0.8 (AWG20) 2x2x0.14 mm <sup>2</sup> (AWG26) 3 x15 mm <sup>2</sup> 5x0.34 mm <sup>2</sup> (AWG22)	2 x 1.2 (AWG18)  3 x 1.5 mm <sup>2</sup>	3 x1.06 (AWG18) 2x2x0.14 mm <sup>2</sup> (AWG26)  2x0.75 mm <sup>2</sup> (AWG18)	3x1.06 (AWG18) 2x2x0.15 mm <sup>2</sup> (AWG25) 3x2.5 mm <sup>2</sup> (AWG13) 4x2x0.14 mm <sup>2</sup> (AWG26/7)	3 x1.06 (AWG18) 2x2x0.15 mm <sup>2</sup> (AWG25) 4x2x0.14 mm <sup>2</sup> (AWG26/7)
Solid wire:	■	■				
Insulation:	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE	Foam/Skin-PE
Copper spiral shielding:						
Copper cross-mesh shielding:	■	■	■ ■	■ ■	■	■
Foil shield:	■	■		■	■	■
Fleece shield, conductive:						
HD-SDI(HDTV)/3G-SDI:	■/-	■/-	■/■	■/■	■/■	■/■
6G-SDI/12G-SDI:			■/-	■/-	■/-	■/-
Halogen-free/FRNC/PUR:						
CPR classification:						
AQUA/E30/TERRA/ARAMID:						
Mobile/Installation/ELA:	■/■/■	■/■/■	■/■/-	■/■/-	■/■/-	■/■/-
Shielding factor:	100 %	100 %	100 %	100 %	100 %	100 %
Capacity cond./shield. per 1 m [pF]:	56 (video) 100 (audio)	59 (video) 130 (audio)	53	52	52	52
Surge impedance [Ω]:	75	75	75	75	75	75
Velocity factor:			0.86	0.80	0.80	0.80
Attenuation per 100 m at 100 MHz [dB]:	9.7	7.7	6.7	6.5	6.5	6.5

BULK CABLE - VIDEO

Color:	Type:	ORDER NO.					
■ black	PVC, 2 x Coax + POWER	-	-	600-2031	-	-	-
	PVC, 3 x Coax + 2 x Audio + 2 x Control	-	-	-	600-3202	-	-
	SOFT-PVC, 3 x Coax + 2 x Audio + 1 x CAT + POWER	-	-	-	-	600-2791	-
	SOFT-PVC, 3 x Coax + 2 x Audio + 1 x CAT	-	-	-	-	-	600-2781
	FRNC, 1 x Coax + 2x2x0.14 mm <sup>2</sup> + Power	605-0761	-	-	-	-	-
	PVC, 2 x Coax + 2x2x0.14 mm <sup>2</sup> + 5x0.34 mm <sup>2</sup> + Power	-	600-2231	-	-	-	-

## RG/U COAXIAL CABLE

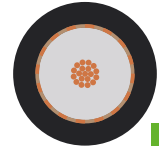
CONFORMING TO MIL-C-17

50Ω

## SC-CLASSIC SERIES MKII

STUDIO 
  INSTALL 
  ELA

ANALOG 
  FRNC 
  HALOGEN-FREE 
  OFC



Sectional drawing 1

## Military-spec precision ...

is what you get with these remarkably versatile coaxial cables. Our RG (radio guide) cables have earned a reputation for their age-defiant jacketing and durability. RG cables have either one or two cross-braided shields, designed according to the American MIL-C-17 standard.

This standard, originally developed for the army, guarantees excellent and consistent manufacturing quality and durability. RG cables have been created for a vast number of applications in high frequency technology, electronics, and data transmission.

## FREE SAMPLES AVAILABLE!

More sectional drawings see website.

## APPLICATIONS:

- Data transmission
- High frequency technology
- Antenna construction
- Fixed installation
- Computer technology

## PRODUCT ADVANTAGES:

- Extremely long life due to age-resistant jacket
- Consistent and precise electrical values
- Easy to work with
- Suitable for all standardized connectors



1	2	3	4
Ø mm <b>9.5</b>	Ø mm <b>5.0</b>	Ø mm <b>5.0</b>	Ø mm <b>2.8</b>
Shielding <b>92%</b>	Shielding <b>92%</b>	Shielding <b>92%</b>	Shielding <b>92%</b>
Ø Conductor <b>1.85</b>	Ø Conductor <b>0.78</b>	Ø Wire <b>1.02</b>	Ø Conductor <b>0.42</b>

## TECHNICAL DATA

	1 RG8/U $\triangle$ RG213/UBX	2 RG58C/U	3 RG58C/U LL	4 RG174A/U
Jacket, diameter:	PVC 9.5 mm	PVC/FRNC 5.0 mm	PVC 5.0 mm	PVC 2.8 mm
Inner conductors:	2.7 mm <sup>2</sup> $\triangle$ Ø 1.85 mm	0.48 mm <sup>2</sup> $\triangle$ Ø 0.78 mm	Ø 1.02 mm	0.14 mm <sup>2</sup> $\triangle$ Ø 0.42 mm
AWG:	AWG13	AWG20	AWG18	AWG26
Copper strands per conductor:	7 x 0.70 mm copper, bare	19 x 0.18 mm copper tin-plated	1 x 1.02 mm solid wire	7 x 0.16 mm wire
Conductor insulation:	PE 6.4 mm	PE 2.95 mm	Foam/skin-PE 2.95 mm	PE 1.5 mm
Shielding:	Copper braiding, bare	Copper braiding tin-plated	Copper braiding tin-plated + AL-foil	Copper braiding tin-plated
Shielding factor:	92%	92%	92%	92%
Temperature range:	-25°C...+70°C	-25°C...+70°C	-25°C...+70°C	-25°C...+70°C
Fire load per m:	0.59 kWh	0.15 kWh	0.15 kWh	0.11 kWh
Weight per 1 m:	128 g	38 g	38 g	11 g
Jacket color:	■ black	■ black	■ black	■ black
Packaging:	100 m ring / 500 m spool	100 m ring / 500 m spool	100 m ring / 500 m spool	100 m ring
Matching plug:	-	BNC58	BNC58LL	BNC174, SMA174, SMB174

## ELECTRICAL DATA

Surge impedance:	50 Ω ± 3%	50 Ω ± 2%	50 Ω ± 3%	50 Ω ± 2%	
Capac. cond./shield. per 1 m:	101 pF	99 pF	82 pF	101 pF	
Velocity factor:	0.66	0.66	0.66	0.66	
Attenuation per 100 m (20°C):	100 MHz:	7.8 dB	15.0 dB	10.3 dB	27.4 dB
	200 MHz:	10.6 dB	22.4 dB	15.2 dB	40.7 dB
	470 MHz:	16.6 dB	32.0 dB	21.3 dB	60.5 dB
	862 MHz:	25.3 dB	51.3 dB	31.4 dB	87.8 dB

ORDER NO. PVC

600-0511

600-0401

600-0401LL

600-0501

ORDER NO. FRNC

600-0401F



x00070

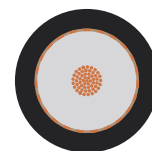
## RG/U COAXIAL CABLE

CONFORMING TO MIL-C-17

50Ω/75Ω

## SC-CLASSIC SERIES MKII

STUDIO  INSTALL  ELA  
 ANALOG  OFC



Sectional drawing 1

## Military-spec precision ...

is what you get with these remarkably versatile coaxial cables. And our RG (radio guide) cables have developed a reputation for the age-defiant jacketing and durability. RG cables have either one or two cross-braided shields, designed according to the American MIL-C-17 standard. This standard originally developed for the army, guarantees excellent and consistent manufacturing quality and durability. RG cables have been created for a vast number of applications in high frequency technology, electronics, and data transmission.

## FREE SAMPLES AVAILABLE!

More sectional drawings see website.

## APPLICATIONS:

- Data transmission
- High frequency technology
- Antenna construction
- Fixed installation
- Hi-fi connections
- Computer technology

## PRODUCT ADVANTAGES:

- Extremely long life due to age-resistant jacket
- Consistent and precise electrical values
- Easy to work with
- Suitable for all standardized connectors

With the "Powercut PC85" you can make fast, clean and precise cuts (up to 6.00 mm<sup>2</sup>/AWG10)!



## TECHNICAL DATA

	1 RG213/U, 50Ω	2 RG213/LL $\triangle$ HF400TT, 50Ω	3 RG59B/U, 75Ω
Jacket, diameter:	PVC 10.3 mm	PE 10.3 mm	PVC 6.2 mm
Inner conductors:	3.09 mm <sup>2</sup> $\triangle$ $\varnothing$ 1.98 mm	$\varnothing$ 2.74 mm	$\varnothing$ 0.6 mm
AWG:	AWG12	AWG10	AWG23
Copper strands per conductor:	7 x 0.75 mm copper	1 x 2,74 mm solid, Aluminum copper plated	0.60 mm solid copper wire
Conductor insulation:	PE 7.3 mm	Foam/skin-PE 7.25 mm	PE 3,7 mm
Shielding:	Copper braiding, bare	Copper braiding tin-plated+Al/PT-foil	Copper braiding
Shielding factor:	92%	100%	92%
Temperature range:	-25°C...+70°C	-40°C...+75°C	-25 °C...+70 °C
Fire load per m:	0.70 kWh	0.71 kWh	0.24 kWh
Weight per 1 m:	159 g	107 g	57 g
Jacket color:	■ black	■ black	■ black
Packaging:	100 m ring/500 m spool	100 m ring/500 m spool	100 m ring/500 m spool
Matching plug:	BNC213	BNC213LL-T	BNC59, NBNC75BLP7

## ELECTRICAL DATA

Surge impedance:	50 Ω $\pm$ 2%	50 Ω $\pm$ 2%	75 Ω $\pm$ 3 %
Capac. cond./shield. per 1 m:	101 pF	80 pF	67 pF
Velocity factor:	0.66	0.84	0.66
Attenuation per 100 m: (20°C)	100 MHz: 7.0 dB 200 MHz: 9.2 dB 470 MHz: 14.5 dB 862 MHz: 20.6 dB 1000 MHz: 23.0 dB 1485 MHz: 28.0 dB 1750 MHz: 30.3 dB 2150 MHz: 32.8 dB 3000 MHz: 34.1 dB	3.6 dB 5.3 dB 8.8 dB 12.3 dB 13.2 dB 16.5 dB 18.7 dB 21.0 dB 25.1 dB	11.1 dB 16.8 dB 25.1 dB 36.4 dB 39.2 dB

ORDER NO.

600-0551

600-0551HF NEW

600-0451



x00071



## SAT CABLE HD-SDI/HDTV

LOW-LOSS + ANTI AGING (LLX)

### SC-ASTRAL SC-ASTRAL-LLX 120 DB

⊗ STUDIO ⊗ INSTALL

ANALOG DIGITAL HDTV OFC HALOGEN-FREE FRNC ARAMID

#### As old as Methuselah ...

and at the same time be and look fit like a lad. The **SC-ASTRAL-LLX** features a patented design of carbon screens around solid wires and insulation plus a protective polyester foil underneath the outer PVC jacket. This avoids material fatigue and ensures constant, extremely low attenuation values as well as a shielding efficiency of 120 dBs for decades. Moreover, the two carbon screens stabilize the solid conductor and the skin PE insulation. That way the cable will keep its round shape and electrical values also after it has been laid.

The **SC-ASTRAL-LLX** meets the HD-SDI standard and is suitable for long cable routes in large SAT receiving systems. It is also available in an **ARAMID reinforced AQUA MARINEX version**.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

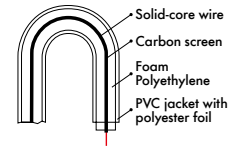
- High-end cable for broadband cable TV and digital SAT equipment
- For professional HDTV applications

#### PRODUCT ADVANTAGES:

- Excellent transmission quality and attenuation values
- Consistent values even after installation for decades due to patented anti-aging construction (LLX)
- Suitable for analog and digital applications, HDTV transmission quality/HD-SDI with SC-ASTRAL-LLX
- Version 600-0961AQ-LLX transversely watertight and rodent-proof

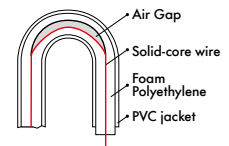
#### SC-ASTRAL-LLX

with patented carbon-coated construction



#### Conventional digital SAT cable

with standard Foam PE dielectric



TECHNICAL DATA	SC-ASTRAL-LLX	SC-AQUA MARINEX ASTRAL-LLX	SC-ASTRAL HD ECA
Construction:	(1.13/5.0) 120 dB	(1.13/5.0) 120 dB	(1.0/4.6) HD (RG6)
Jacket, Ø: PVC, white	PVC 6.8 mm	PUR 8.5mm, with ARAMID reinforcement	PVC, 6.8 mm Eca
Inner conductors:	1x1.13 mm (AWG17)	1x1.13 mm (AWG17)	1 x 1.0 mm (AWG18)
Copper strands per cond.:	Solid copper	Solid copper	Solid copper
Conductor insulation, Ø:	Foam/Skin-PE 5.0 mm	Foam/Skin-PE 5.0 mm	Foam/Skin-PE 4.65 mm
Shielding:	Copper braiding tin-plated + AL-foil + 2 x semiconductor	Cu braid tinned + AL compound foil, with special protective banding	AL foil + Cu braid tinned + 2. AL foil
Shielding factor:	100 %	100 %	100%
Temperature range:	-20 °C...+70 °C	-30 °C...+80 °C	-25°C...+70 °C
Fire load per m:	0.24 kWh	0,41 kWh	0.21 kWh
Weight per 1 m:	55 g	88 g	52 g
Packaging:	100 m/250 m spool	100 m spool	100 m/500 m reel
Matching plug:	HI-FM08/07, BNC1.2/5.0-T, BNC1.2/5.0 HD	FM-5.8, FMC-5.7	HI-FM07, FMC-5.0, ANT-MW, ANT-FW
<b>ELECTRICAL DATA</b>			
Surge impedance:	75 Ω ±2 %	75 Ω ±2 %	75 Ω ±3 %
Screening attenuation:	> 120 dB	> 120 dB	30 – 2000 MHz: >120 dB 2000 – 3000 MHz: >113 dB
D.C. resistance per km:	inner cond. 17 Ω outer cond. 9 Ω		
Attenuation per 100 m: (20°C)	100 MHz: 5.5 dB 200 MHz: 7.5 dB 470 MHz: 10.9 dB 862 MHz: 15.5 dB 1000 MHz: 17.5 dB 1485 MHz: 21.9 dB 1750 MHz: 24.5 dB 2150 MHz: 27.0 dB 3000 MHz: 33.0 dB	5.6 dB 7.9 dB 12.4 dB 17.0 dB 18.6 dB 23.0 dB 25.2 dB 28.4 dB 34.8 dB	6.1 dB 8.7 dB 13.7 dB 18.5 dB 20.5 dB 23.9 dB 25.6 dB 30.7 dB 36.9 dB

ORDER NO. PVC

600-0960LLX

ORDER NO. PUR

-

600-0961AQ-LLX **NEW**



x00073

601-0970C **NEW**

-





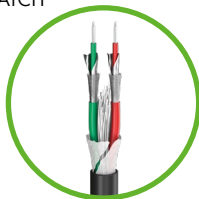


## VIDEO CABLE 0.3L/1.8

75 Ω, MINIATURE VIDEO CABLE, PATCH

### SC-MONOMAX CINEMA-SV

⊗ STUDIO ⊗ INSTALL  
ANALOG S/P-DIF OFC



CINEMA-SV

Small but mighty ...

because on the whole the **SC-MONOMAX** is basically a single lead as it can be found in the **TRANSIT MINI FLEX** multicoaxial cable (see following pages). It has the dense shielding (copper braid 95 %) and the same flexible litz construction which makes it the perfect patch cable (e.g. for control cabinet construction). It is equipped with standard 75 ohms BNC0.3/1.8 BNC connectors. It is available in the RGBHV colors (red, green, blue, white, and black). The maximum transmission length for this patch cable is approx. 30 – 50 meters (98 – 164 ft.), depending on the application. Also available as a flexible twin version **CINEMA-SV** – protected by a robust PVC overall jacket plus double shielding (mesh and AL compound foil) per wire.

#### FREE SAMPLES AVAILABLE!

More sectional drawings see website.

#### APPLICATIONS:

- As flexible video cable for control cabinet construction
- For the unbalanced internal wiring
- Video and monitor cable for connecting high-quality components (CINEMA-SV)

#### PRODUCT ADVANTAGES:

- Excellent shielding, low attenuation values
- Reliable and high-class transmission
- Compact design, easy and safe installation

Ø mm  
**2.7**

Shielding  
**95%**

Ø Conductor  
**0.32**

## VIDEO CABLE 0.3L/1.8

75 Ω, MINIATURE RGB-MULTICORE, HIGHLY FLEXIBLE

### TRANSIT MINI FLEX

⊗ STAGE ⊗ MOBILE ⊗ STUDIO ⊗ INSTALL  
ANALOG OFC



Like silk and satin ...

that's how the outer jacket of the **TRANSIT MINI FLEX** feels in your hands. This is achieved through the use of a special jacket mixture made of an extremely cold-resistant material. It makes the cable highly flexible and sturdy. Each wire is shielded by a dense cross braiding. Both the strand wires and the screen are tinned and very easy to work with. Wire colors according to RGB: red, green, blue, black, and white. Connected in 2-wire mode, the MINI FLEX 3 can also serve as an S-VHS cable.

#### FREE SAMPLES AVAILABLE!

More sectional drawings see website.

#### APPLICATIONS:

- Flexible video and monitor cable for professional demands
- Mobile applications with high bending cycles and for inconspicuous fixed installations

#### PRODUCT ADVANTAGES:

- Highly flexible, easy to reel and cold-resistant due to fine single strand wires and a special jacket mixture, compact
- Excellent shielding, low attenuation
- Very dependable, crush-resistant and durable due to the rayon filler and tight stranding

Ø mm  
**8.2**

Shielding  
**95%**

Ø Conductor  
**3x0.32**

Ø mm  
**9.6**

Shielding  
**95%**

Ø Conductor  
**5x0.32**

#### TECHNICAL DATA

	SC-MONOMAX	CINEMA-SV
Construction:	02YSCY0.3L/1.8	2 x (02YSCY0.3L/1.8)Y
Jacket, diameter:	Antistatic-PVC 2.7 mm	PVC 7.5 mm
Inner conductors:	0.08 mm <sup>2</sup> (AWG28) ⊆ Ø 0.32 mm	2 x 0.08 mm <sup>2</sup> (AWG28) ⊆ Ø 2 x 0.32 mm
Copper strands per conductor:	7 x 0.12 mm	7 x 0.12 mm
Conductor insulation:	Foam/Skin-PE 1.6 mm	Foam/Skin-PE 1.6 mm
Shielding:	Copper braiding tin-plated	Copper braiding tin-plated + AL compound foil
Shielding factor:	95 %	100%
Temperature range:	-25 °C...+70 °C	-15 °C...+70 °C
Fire load per m:	0.27 kWh	0.36 kWh
Weight per 1 m:	11 g	68 g
Packaging:	100 m spool	200 m spool
Matching plug:	BNC0.3/1.8, NBTC75BLI4	BNC0.3/1.8, NBTC75BLI5, HI-SVCM02

#### ELECTRICAL DATA

	75 Ω ±3 %	75 Ω ±3 %
Surge impedance:	75 Ω ±3 %	75 Ω ±3 %
Capac. cond./shield. per 1 m:	56 pF	64 pF
Attenuation per 100 m (20°C):	5 MHz: 4.3 dB	5 MHz: 4.3 dB
	10 MHz: 6.2 dB	10 MHz: 5.8 dB
	50 MHz: 15.0 dB	50 MHz: 16.6 dB
	100 MHz: 21.5 dB	100 MHz: 22.5 dB
	1485 MHz: 94.5 dB	1485 MHz: 92.3 dB
	3000 MHz: 148.0 dB	3000 MHz: 146.5 dB
Return loss:	bei 1-100 MHz: > 20 dB	

#### COLOR

COLOR	ORDER NO.	ORDER NO.
■ red	<b>600-0253-01</b>	
■ green	<b>600-0254-01</b>	
■ blue	<b>600-0252-01</b>	
■ black	<b>600-0251-01</b>	<b>600-0701</b>
□ white	<b>600-0250-01</b>	



ⓧ x00074

#### TECHNICAL DATA

	3-WIRE	5-WIRE
Construction:	3x(02YSCY0.3L/1.8)Y	5x(02YSCY0.3L/1.8)Y
Jacket, diameter:	Antistatic-PVC 8.2 mm	Antistatic-PVC 9.6 mm
Inner conductors:	3 x 0.08 mm <sup>2</sup> (AWG28) ⊆ Ø 3 x 0.32 mm	5 x 0.08 mm <sup>2</sup> (AWG28) ⊆ Ø 5 x 0.32 mm
Copper strands per conductor:	7 x 0.12 mm	7 x 0.12 mm
Conductor insulation:	Foam/skin-PE 1.6 mm	Foam/skin-PE 1.6 mm
Shielding:	Copper braiding tin-plated	Copper braiding tin-plated
Shielding factor:	95%	95%
Temperature range:	-20°C...+70°C	-20°C...+70°C
Fire load per m:	0.27 kWh	0.37 kWh
Weight per 1 m:	78 g	110 g
Packaging:	per m	per m
Matching plug:	BNC0.3/1.8, NBTC75BLI4	BNC0.3/1.8, NBTC75BLI4

#### ELECTRICAL DATA

	75 Ω ±3 %	75 Ω ±3 %
Surge impedance:	75 Ω ±3 %	75 Ω ±3 %
Capac. cond./shield. per 1 m:	56 pF	56 pF
Attenuation per 100 m (20°C):	5 MHz: 4.3 dB	5 MHz: 4.3 dB
	10 MHz: 6.2 dB	10 MHz: 6.2 dB
	50 MHz: 15.0 dB	50 MHz: 15.0 dB
	100 MHz: 21.5 dB	100 MHz: 21.5 dB
	1485 MHz: 94.5 dB	1485 MHz: 94.5 dB
	3000 MHz: 148.0 dB	3000 MHz: 148.0 dB
Return loss:	bei 1-100 MHz: > 20 dB	bei 1-100 MHz: > 20 dB

#### COLOR

COLOR	ORDER NO.
■ black, 3-wire	<b>600-0251-03</b>
■ black, 5-wire	<b>600-0251-05</b>



ⓧ x00076

**VIDEO CABLE 0.4/1.9 [HD/UHD]**

75 Ω, COMPACT, PATCH

**SC-MONOMAX HD**
 **STUDIO**
 **INSTALL**
 **ANALOG**
 **DIGITAL**
 **CPR**
 **OFC**
 **HD/UHD**
*The slimming mania ...*

has seized our new **SC-MONOMAX HD 0.41/1.9!** With only 3.6 mm in diameter this HD-SDI cable is perfect for almost invisible connections and super compact patching, e.g. in control cabinets where every square millimeter counts. By contrast, using the double thickness HD-SDI standard sizes 0.8/3.7, things can get very cramped with multi-bundles. On the other hand, thinner size 0.3/1.8 video lines are too fragile against kinks, bends and also more susceptible of heat accumulation which will badly afflict the cable insulation over time and can also impair the transmission quality.

The **SC-MONOMAX HD 0.41/1.9** has a gas-injected insulation to ensure low attenuation values and a robust outer jacket which will keep up these excellent electrical properties also in the long run.

**FREE SAMPLES AVAILABLE!**

More sectional drawings see website.

**APPLICATIONS:**

- Flexible HD-SDI video cable for the control cabinet construction
- For all kinds of unbalanced internal wirings
- For compact cable connections in the video and home cinema sector

 **3.6**
 **100%**
**PRODUCT ADVANTAGES:**

- Low attenuation due to skin-gas-skin injected insulation
- Excellent shielding by the combination of a Cu mesh plus foil screen
- Tightest tolerances for the surge impedance ( $\pm 3\%$ )
- Compact design due to small outer diameter
- Robust and durable cable construction despite miniature design

 **0.41**
**TECHNICAL DATA**

Construction:	02YS(ST)CY0.4/1.9
Jacket, diameter:	PVC 3.6 mm
CPR euroclass:	Eca
Inner conductor:	Solid Cu wire 0.41mm (AWG26)
Conductor insulation:	Gas injected PE 1.9 mm
Shielding:	Cu mesh, tinned + AL/PT foil
Shielding factor:	100 %
Temperature range:	-30 °C ... +70 °C
Fire load per m:	0.06 kWh
Max. Transmission length:*	67 m (SMPTE 425M, 3G), 47 m (SMPTE 2081, 6G), 33 m (SMPTE 2082, 12G)
Weight per 1 m:	14.2 g
Packaging, P.U.:	100 m/328 ft. reel
Matching plug:	BNC0.4/1.9, NBTC75BNS4

**ELECTRICAL DATA**

Surge impedance:	75 Ω
Capac. cond./shield. per 1 m:	53 pF
Conductor resistance per 1 km:	320 Ω
Shielding efficiency:	> 95 dB
Shield. resistance per 1 km:	26 Ω
Velocity factor:	0.85
Attenuation per 100 m (20 °C):	50 MHz: 11.4 dB    200 MHz: 22.1 dB 470 MHz: 32.9 dB    862 MHz: 44.8 dB 1000 MHz: 48.8 dB    1485 MHz: 58.9 dB 1750 MHz: 63.5 dB    2150 MHz: 70.9 dB 3000 MHz: 84.7 dB

**COLOR**

■ black

**ORDER NO.**600-0041C **NEW**

x01665

**VIDEO CABLE 0.6/2.8 [HD/UHD]**

75 Ω, PVC, HALOGEN-FREE AND FLAME-RETARDANT (FRNC)

**SC-SLIMLINE (RCB)**
 **INSTALL**
 **ELA**
 **ANALOG**
 **DIGITAL**
 **FRNC**
 **HALOGEN-FREE**
 **OFC**
 **HD/UHD**
*Looking for the superstar ...*

among the video and satellite cables? The **SC-SLIMLINE (RCB)** meets all requirements put on high-quality HD-SDI/HDTV cables these days and, owing to the use of high-grade materials, promises a long service life. To achieve super low attenuation values, we have fitted the cable with a massive OFC (oxygen-free copper) wire, a gas-injected insulation and a dual screen (copper braiding + AL/PT foil).

**FREE SAMPLES AVAILABLE!**

More sectional drawings see website.

**APPLICATIONS:**

- HD-SDI video transmission in the professional broadcasting/studio sector
- OB van technology
- Permanent installation, HF technology and antenna construction

 **4.2**
 **100%**
**PRODUCT ADVANTAGES:**

- Super long life due to aging-resistant jacket
- Constant, optimized electrical values due to the use of a massive
- OFC conductor
- Gas-injected insulation for excellent attenuation values

 **0.60**
**TECHNICAL DATA**

Construction:	02YS(ST)CH0.6/2.8 HD-SDI
Construction:	accord. to EN50117
Jacket, diameter:	PVC/FRNC 4.2 mm
Inner conductors:	Copper-solid wire 1 x 0.60 mm (AWG23)
Conductor insulation:	Gas Injected-PE 2.8 mm
Shielding:	Copper braiding tin-plated + AL/PT-foil
Shielding factor:	100 %
Temperature range:	-30 °C... +70 °C
Fire load per m:	0.06 kWh
Max. Transmission length:*	96 m (SMPTE 425M, 3G), 66 m (SMPTE 2081, 6G), 44 m (SMPTE 2082, 12G)
Weight per 1 m:	22 g
Packaging, P.U.:	100 m/500 m/1000 m spool
Matching plug:	1-6051-2100-1, NBNC75BFG7X, BNC0.6/2.8, ...-T, ...-HD

**ELECTRICAL DATA**

Surge impedance:	75 Ω $\pm 1\%$
Capac. cond./shield. per 1 m:	53.0 pF
Shielding efficiency:	> 90 dB
Shield. resistance per 1 km:	17 Ω
D.C. resistance per km:	Inner conductor 60.5 Ω
Max. delay (skew):	4 ns @100 MHz (per 100 m)
Velocity factor:	0.82
Attenuation per 100 m (20 °C):	50 MHz: 7.3 dB    200 MHz: 14.5 dB 470 MHz: 22.7 dB    862 MHz: 31.1 dB 1000 MHz: 33.6 dB    1485 MHz: 41.2 dB 1750 MHz: 45.2 dB    2150 MHz: 50.9 dB 3000 MHz: 60.0 dB    6000 MHz: 90.4 dB

**COLOR**

■ black, PVC

■ green, PVC

■ orange, PVC

■ violet, PVC

★ black, FRNC

**ORDER NO.**600-0851 **NEW**

600-0854

600-0855

600-0858

600-0851F



x00077

\*) Data depends on transmitter and receiver. Detailed table at www.sommercable.com → Service → Techn. Info



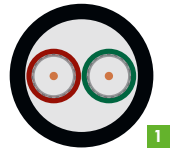
## VIDEO CABLE 0.6/2.8 [HD/UHD]

75 Ω, RGBHV MULTICORE, HIGHLY FLEXIBLE

### TRANSIT 2/3/5/7 HD

MOBILE STUDIO INSTALL ELA

ANALOG DIGITAL FRNC HALOGEN-FREE HD/UHD OFC



Sectional drawings 1

For everyone needing a long line ...

our **TRANSIT** cable is just right. Its construction is basically the same as for our multi-coaxial **TRANSIT MINI** and **TRANSIT MINI FLEX** cables, the **TRANSIT** however is recommended for extreme lengths exceeding 40 m/130 ft. But it is also preferred for short distances in professional video studios where it guarantees an image which is totally devoid of shadows and flickering.

The **TRANSIT** impresses with its high flexibility, extended functionality and dual shielding (copper braiding + AL/PT foil) of the single wires. For outdoor version 7 x coax, see **TRANSIT MOBILE** on the following pages.

#### FREE SAMPLE AVAILABLE!

More sectional drawings see website.

#### APPLICATIONS:

- Fixed installation over long distances
- (theaters, sporting arenas, media and congress centers)
- Multi-coax cable reel

#### PRODUCT ADVANTAGES:

- Dependable and very high-quality image transmission over long distances
- Very good attenuation and transmission values even with excessive lengths
- Highly flexible due to special jacket compound and tight wire stranding
- Easy to reel (PVC version)

#### TECHNICAL DATA

	1 TRANSIT 2 HD	2 TRANSIT 3 HD	3 TRANSIT 5 HD	4 TRANSIT 7 HD
Construction:	2x2YS(ST)CY0.6/2.8	3x2YS(ST)CY0.6/2.8	5x2YS(ST)CY0.6/2.8	7x2YS(ST)CY0.6/2.8
Jacket, diameter:	PVC/FRNC 10.2 mm	PVC 11.2 mm	PVC 13.8 mm	PVC 15.0 mm
Inner conductors:	2 x 0.60 mm (AWG23)	3 x 0.60 mm (AWG23)	5 x 0.60 mm (AWG23)	7 x 0.60 mm (AWG23)
Conductor insulation:	Gas-Injected Foam/Skin-PE 2.8 mm			
Shielding:	Copper braiding tin-plated 90% + AL/PT-foil			
Shielding factor:	100 %			
Shielding factor (PVC):	0.72 kWh	0.84 kWh	1.14 kWh	1.54 kWh
Shielding factor (FRNC):	0.51 kWh	-	-	-
Max. transmission length:*	81 m (SMPTE 425M, 3G), 54 m (SMPTE 2081, 6G), 37 m (SMPTE 2082, 12G)			
Weight per 1 m (PVC):	116 g	150 g	215 g	270 g
Weight per 1 m (FRNC):	100 g	-	-	-
Jacket color:	■ black	■ black	■ black	■ black
Packaging:	per m	per m	per m	per m
Matching plug:	BNC0.6/2.8, NBNC75BFG7X, BNC0.6/2.8HDTV-T, BNC0.6/2.8HD			

#### ELECTRICAL DATA

	1	2	3	4
Surge impedance:	75 Ω ±1%	75 Ω ±1%	75 Ω ±1%	75 Ω ±1%
Capac. cond./shield. per 1 m:	55 pF	55 pF	55 pF	55 pF
Attenuation per 100 m (20°C):	50 MHz: 7.3 dB 200 MHz: 14.5 dB 470 MHz: 22.7 dB 862 MHz: 31.1 dB 1000 MHz: 33.6 dB 1485 MHz: 41.2 dB 1750 MHz: 45.2 dB 2150 MHz: 50.9 dB 3000 MHz: 59.9 dB	50 MHz: 7.3 dB 200 MHz: 14.7 dB 470 MHz: 22.7 dB 862 MHz: 31.1 dB 1000 MHz: 33.6 dB 1485 MHz: 41.2 dB 1750 MHz: 45.2 dB 2150 MHz: 50.9 dB 3000 MHz: 59.9 dB	50 MHz: 7.3 dB 200 MHz: 14.7 dB 470 MHz: 22.7 dB 862 MHz: 31.1 dB 1000 MHz: 33.6 dB 1485 MHz: 41.2 dB 1750 MHz: 45.2 dB 2150 MHz: 50.9 dB 3000 MHz: 59.9 dB	50 MHz: 7.3 dB 200 MHz: 14.7 dB 470 MHz: 22.7 dB 862 MHz: 31.1 dB 1000 MHz: 33.6 dB 1485 MHz: 41.2 dB 1750 MHz: 45.2 dB 2150 MHz: 50.9 dB 3000 MHz: 59.9 dB

ORDER NO. PVC

600-0851-02

600-0851-03

600-0851-05

600-0851-07

ORDER NO. FRNC

600-0851-02F



QR x00078

\* Specifications depend on transmitter and receiver. For a detailed table visit [www.sommecable.com](http://www.sommecable.com) → Service → Techn. Info

- Price lookup via QR code or search number at [shop.sommecable.com](http://shop.sommecable.com) • Subject to change • The General Terms and conditions apply (see [www.sommecable.com](http://www.sommecable.com)) -





## VIDEO CABLE, MULTI-COAXIAL 7-FOLD

75 Ω WITH PUR JACKET, HALOGEN-FREE+FLAME-RETARDANT

### TRANSIT MOBILE PUR

MOBILE 
  STUDIO 
  INSTALL 
  ELA  
 ANALOG 
  FRNC 
  HALOGEN-FREE 
  PUR 
  OFC

*When your lips become chapped ...*

it's freezing cold outside. The same thing goes for a standard PVC jacket. For such extreme conditions you'll need a video cable with a tough and cold-resistant PUR jacket that will not stiffen or develop cracks in low temperatures. Jacket material single wire: TPC-ET.

The **TRANSIT MOBILE** is reelable and resists even the most adverse weather conditions. It offers excellent attenuation values and has dense braided shielding with 95% coverage. Wires 6 and 7 can be used as auxiliary lines for large-screen S-video projectors.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- Transmission of RGB video signals in mobile applications
- Fixed installation
- Supply cable for large-screen projectors

#### PRODUCT ADVANTAGES:

- Very good attenuation values
- Durable and cold-resistant PUR jacket
- Dirt-resistant jacket
- Easy to reel

Ø mm  
**15.3**

Shielding  
**95%**

Ø Conductor  
**7x0.66**

#### TECHNICAL DATA

Construction:	(...LI2YSC12Y0.34 mm <sup>2</sup> )Y PUR
Jacket, diameter:	PUR 15.3 mm
Inner conductors:	7 x 0.34 mm <sup>2</sup> (AWG22) $\triangle$ Ø 7 x 0.66 mm
Copper strands per conductor:	7 x 0.25 mm
Conductor insulation:	Foam/skin-PE 3.2 mm
Shielding:	Copper braided shield
Shielding factor:	95 %
Temperature range:	-30 °C... + 70 °C
Fire load per m:	1.82 kWh
Weight per 1 m:	215 g
Packaging:	per m
Matching plug:	BNC0.66/3.2, NBNC75BIJ9

#### ELECTRICAL DATA

Surge impedance:	75 Ω ±1%												
Capac. cond./shield. per 1 m:	53 pF												
Cond. resistance per 1 km:	50 Ω												
Velocity factor:	0.82												
Attenuation per 100 m (20 °C):	<table border="1"> <tr> <td>5 MHz:</td> <td>1.9 dB</td> <td>50 MHz:</td> <td>7.7 dB</td> </tr> <tr> <td>100 MHz:</td> <td>9.4 dB</td> <td>200 MHz:</td> <td>12.7 dB</td> </tr> <tr> <td>470 MHz:</td> <td>21.1 dB</td> <td>862 MHz:</td> <td>31.5 dB</td> </tr> </table>	5 MHz:	1.9 dB	50 MHz:	7.7 dB	100 MHz:	9.4 dB	200 MHz:	12.7 dB	470 MHz:	21.1 dB	862 MHz:	31.5 dB
5 MHz:	1.9 dB	50 MHz:	7.7 dB										
100 MHz:	9.4 dB	200 MHz:	12.7 dB										
470 MHz:	21.1 dB	862 MHz:	31.5 dB										

#### COLOR

■ grey (charcoal), 7 x coax

#### ORDER NO.

**600-0646-07**



## VIDEO INTERCONNECT CABLE

75 Ω, RGB PATCH CABLE, SPLITABLE

### SC-ALTERA SPLIT HIGHFLEX

STUDIO 
  INSTALL 
  HIFI  
 ANALOG 
  S/P-DIF

*All for one and one for all ...*

said the 3 Musketeers and went into battle side by side. Our **SC-ALTERA SPLIT** also has three 75 Ω video lines side by side comprising a video component cable engineered to higher standards. Video component cables are generally fitted with RCA connectors and used for connecting signal sources (DVD players, home cinema systems) and monitors (video projectors, flatscreen TV or the like). The three joined lines are easy to separate. This is very practical if you want to determine the splice length yourself. We selected the single wire gauge so that the RCA connector has a perfect "grip". The wires are color-coded according to the common RGB assignment: Y = green U [Cb/Pb] = red V [Cr/Pr] = blue

This cable is suitable for both analog and digital applications and is also available ready-made with affixed connectors.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- Highly flexible cable for connecting projectors, flatscreen TV, etc.
- High-quality connection of hi-fi components (DVD, home cinema receiver)

#### PRODUCT ADVANTAGES:

- Highly flexible, easy to split
- Excellent shielding due to dense braiding and AL/PT foil
- Very dependable, tread-resistant and durable due to thick PVC jacket
- Easy to work with due to RGB color coding and jacketed single wires
- Suitable for analog and digital applications

Ø mm  
**18.0x6.2**

Shielding  
**100%**

Ø Conductor  
**3x0.66**

#### TECHNICAL DATA

Construction:	3xHF75 0.6/3.7
Jacket, diameter:	PVC 18.0 x 6.2 mm
Inner conductors:	3 x 0.34 mm <sup>2</sup> (AWG22) $\triangle$ 3 x Ø 0.66 mm
Copper strands per conductor:	17 x 0.16 mm
Conductor insulation:	PE 3.7 mm
Shielding:	Copper braiding 90 % + AL/PT-foil
Shielding factor:	100 %
Temperature range:	-25 °C...+70 °C
Fire load per m:	0.57 kWh
Weight per 1 m:	130 g
Packaging:	100 m spool
Matching plug:	BNC59, HI-CM06, NBNC75BLP7

#### ELECTRICAL DATA

Surge impedance:	75 Ω ±1%										
Capac. cond./shield. per 1 m:	56 pF										
Attenuation per 100 m (20 °C):	<table border="1"> <tr> <td>5 MHz:</td> <td>2.6 dB</td> </tr> <tr> <td>50 MHz:</td> <td>7.0 dB</td> </tr> <tr> <td>100 MHz:</td> <td>8.8 dB</td> </tr> <tr> <td>470 MHz:</td> <td>21.4 dB</td> </tr> <tr> <td>862 MHz:</td> <td>33.1 dB</td> </tr> </table>	5 MHz:	2.6 dB	50 MHz:	7.0 dB	100 MHz:	8.8 dB	470 MHz:	21.4 dB	862 MHz:	33.1 dB
5 MHz:	2.6 dB										
50 MHz:	7.0 dB										
100 MHz:	8.8 dB										
470 MHz:	21.4 dB										
862 MHz:	33.1 dB										

#### COLOR

■ blue  
■ blue, without imprint

#### ORDER NO.

**600-0712**  
**600-0712NE** **NEW**



## VIDEO CABLE 0.6/3.7

75 Ω

## SC-FOCUSLINE L HIGHFLEX

MOBILE
  STUDIO
  INSTALL
  ELA  
 ANALOG
  CPR
  S/P-DIF
  OFC



Sectional drawings

*That's it exactly ...*

± 1 %. Because the exact number of Ohms matters! A lack of precision is the enemy of video transmission. This cable is used in video technology and is suitable for mobile applications as well as fixed installations. The green jacket color indicates a wave impedance of 75 Ω with a ± 1 % tolerance as required by broadcasting stations.

Unlike other video cables the **SC-FOCUSLINE** is fitted with a soft, yet very durable jacket and a tightly stranded oxygen-free copper mesh.

It is suitable for installation in both dry and damp rooms

**S/P-DIF COMPATIBLE!**

**FREE SAMPLES AVAILABLE!**

Ø mm

6.2

Shielding

92 %

Ø Conductor

0.53

BULK CABLE - VIDEO

## APPLICATIONS:

- Image processing in video technology
- Cabling of viewing and surveillance monitors
- Permanent installation in the broadcasting and television sectors
- Data transmission
- HF technology

## PRODUCT ADVANTAGES:

- Precise wave impedance of 75 Ω
- Flexible and robust outer jacket
- Available in green and black

## TECHNICAL DATA

Construction:	02YS(ST)CH0.6/3.7	
Jacket, diameter:	PVC 6.2 mm	
CPR euro class:	Eca	
Inner conductors:	1 x 0.22 mm <sup>2</sup> (AWG24) $\underline{\Delta}$ Ø 0.53 mm	
Copper strands per conductor:	7 x 0.20 mm	
Conductor insulation:	PE 3.7 mm	
Shielding:	Copper braiding	
Shielding factor:	92 %	
Temperature range:	-20 °C...+70 °C	
Fire load per m:	0.23 kWh	
Weight per 1 m:	44 g	
Packaging:	100/1000 m spool	
Matching plug:	BNC0.6/3.7, NBNC75BLP7	

## ELECTRICAL DATA

Surge impedance:	75 Ω ±1%	
Capac. cond./shield. per 1 m:	67 pF	
Cond. resistance per 1 km:	150 Ω	
Shield. resistance per 1 km:	13 Ω	
Velocity factor:	0.66	
Attenuation per 100 m (20°C):	5 MHz: 2.5 dB	50 MHz: 6.2 dB
	100 MHz: 10.2 dB	200 MHz: 13.1 dB

## COLOR

- black, strand, Eca
- green, strand, Eca

## ORDER NO.

600-0051LC **NEW**  
600-0054LC **NEW**



x00079

## VIDEO CABLE 0.6/3.7

75 Ω, BROADCAST

## SC-FOCUSLINE MS HIGHFLEX

MOBILE
  STUDIO
  INSTALL
  ELA  
 ANALOG
  S/P-DIF
  FRNC
  HALOGEN-FREE
  OFC



Sectional drawings

*That's it exactly ...*

± 1 %. Because the exact number of Ohms matters!

A lack of precision is the enemy of video transmission. This cable is used in video technology and is suitable for mobile applications as well as fixed installations.

Unlike common video cables the **SC-FOCUSLINE** is fitted with a soft, yet very durable jacket and a tightly stranded oxygen-free copper mesh.

Solid-wire version with 100 % shielding (cross braiding + metallized fleece).

**S/P-DIF COMPATIBLE!**

**FREE SAMPLES AVAILABLE!**

Ø mm

6.2

Shielding

100 %

Ø Wire

0.60

## APPLICATIONS:

- Image processing in video technology
- Cabling of viewing and surveillance monitors
- Permanent installation in the broadcasting and television sectors
- Data transmission
- HF technology

## PRODUCT ADVANTAGES:

- Precise wave impedance of 75 Ω
- Flexible and robust outer jacket
- Digitally capable

## TECHNICAL DATA

Construction:	02YS(ST)CH0.6/3.7	
Jacket, diameter:	FR-PVC 6.2 mm	
Inner conductors:	Copper-solid wire x 0.60 mm (AWG23)	
Conductor insulation:	PE 3.7 mm	
Shielding:	Copper braiding tin-plated + metallic fleece	
Shielding factor:	100 %	
Temperature range:	-30 °C ... +70 °C	
Fire load per m:	0.23 kWh	
Weight per 1 m:	44 g	
Packaging:	100/1000 m spool	
Matching plug:	BNC0.6/3.7, NBNC75BLP7	

## ELECTRICAL DATA

Surge impedance:	75 Ω ±1%	
Capac. cond./shield. per 1 m:	67 pF	
Cond. resistance per 1 km:	63.5 Ω	
Shield. resistance per 1 km:	13 Ω	
Velocity factor:	0.66	
Attenuation per 100 m (20°C):	5 MHz: 2.2 dB	50 MHz: 7.3 dB
	200 MHz: 15.4 dB	470 MHz: 24.5 dB
	862 MHz: 33.7 dB	1000 MHz: 37.2 dB

## COLOR

- black, 100% shielding

## ORDER NO.

600-0051MS



x00080



## VIDEO, INSTRUMENT CABLE 0.6L/3.7 TRANSVERSELY WATERTIGHT [HD/UHD]

75 Ω, SALTWATER-RESISTANT, HALOGEN-FREE

### SC-AQUA MARINEX VIDEO 0.6L/3.7

STAGE 
  MOBILE 
  INSTALL 
  ELA  
 ANALOG 
  S/P-DIF 
  AQUA 
  HALOGEN-FREE 
  PUR 
  HD/UHD



Sectional drawings

*Expensive hobbies do not necessarily require ...*

an expensive cable. This cable was initially developed for installation in shipbuilding. The **AQUA MARINEX video cable** is frequently used for installations on speedboats or ships to connect audio components or video surveillance monitors.

The 0.6L/3.7 / AWG23 (0.024") cable is small in diameter and has an insulation of solid PE, which makes it suitable for permanent underwater use and tolerant of high water pressure.

Owing to its asymmetrical construction the **AQUA MARINEX** can also be used as an instrument lead or audio-frequency phono cable, as can be seen more and more often, e.g. on luxury motorboats, speedboats or yachts. These virtually indestructible cables have a black UV-resistant outer jacket, which can be painted over using standard paint without negatively affecting the cable's functionality or finish.

Ø mm  
**6.4**

Shielding  
**90 %**

Ø Conductor  
**0.60**

**FREE SAMPLES AVAILABLE!**

#### APPLICATIONS:

- Video cable for permanent installation in shipbuilding, tunnel construction or in sports arenas
- Flexible video cable for the camera supply line on dive sessions
- High-quality phono/audio line for audio signal transmission

#### PRODUCT ADVANTAGES:

- Solid outer jacket and robust inner structure (PE insulation)
- Reelable
- Cost-efficient underwater variant
- Useable in great water depths of 50 m/160 feet
- Cold-flexible

#### TECHNICAL DATA

Jacket, diameter:	PUR-SR 6.4 mm
Inner conductors:	0.22 mm <sup>2</sup> $\triangle$ Ø 0.6 mm (AWG23)
Copper strands per conductor:	7 x 0.20 mm
Conductor insulation:	PO 3.3 mm
Shielding:	Copper braiding + special protective banding
Shielding factor:	90%
Temperature range:	-40°C...+80°C
Max. water pressure/depth:	5 bars/50 m
Fire load per m:	0.30 kWh
Max. transmission length:*	83 m (SMPTE 425M, 3G), 62 m (SMPTE 2081, 6G), 42 m (SMPTE 2082, 12G)
Weight per 1 m:	51 g
Packaging:	per m
Matching plug:	BNC59, BNC0.6/3.7, NBNC75BLP7

#### ELECTRICAL DATA

Surge impedance:	75 Ω ± 3 %
Capac. cond./shield. per 1 m:	70 pF
Cond. resistance per 1 km:	89 Ω
Shield. resistance per 1 km:	12.5 Ω
Velocity factor:	0.66
Attenuation per 100 ft. (20°C / 68°F):	100 MHz: 11.2 dB 200 MHz: 16.1 dB 500 MHz: 24.9 dB 800 MHz: 34.8 dB 1.000 MHz: 39.4 dB



**COLOR**  
■ black, PUR-SR, RG59

**ORDER NO.**  
**600-0241AQ**

■ x00081



## VIDEO CABLE 0.75L/3.4 PUR

75 Ω, OUTDOOR, HALOGEN-FREE, COLD FLEXIBLE

### SC-FOCUSLINE PUR

MOBILE 
  STUDIO 
  INSTALL 
  ELA  
 ANALOG 
  S/P-DIF 
  HALOGEN-FREE 
  PUR 
  OFC



Sectional drawings

*Pure enjoyment ...*

even if it's 20 below outside, that won't stop you from recording with this PUR video cable, which is primarily used for outdoor video technology and suitable both for mobile applications and fixed installation. Unlike standard video cables, the **SC-FOCUSLINE PUR** has a very rugged, cold-resistant PUR jacket and oxygen-free copper braiding.

**S/P-DIF COMPATIBLE!**

**FREE SAMPLES AVAILABLE!**

Ø mm  
**5.8**

Shielding  
**75 %**

Ø Conductor  
**0.67**

#### APPLICATIONS:

- Image processing in video technology
- Cabling of viewing and surveillance monitors
- Permanent installation in the broadcasting and television sectors
- Data transmission for mobile outdoor applications

#### PRODUCT ADVANTAGES:

- Exact wave impedance of 75 Ω
- Cold-resistant and robust PUR outer jacket
- Reelable cable for mobile outdoor use

#### TECHNICAL DATA

Construction:	02YS(ST)CH0.75/3.4
Jacket, diameter:	PUR 5.8 mm
Inner conductors:	1 x 0.35 mm <sup>2</sup> (AWG22) $\triangle$ Ø 0.67 mm
Copper strands per conductor:	7 x 0.254 mm
Conductor insulation:	Foam/skin-PE 3.4 mm
Shielding:	Copper braiding
Shielding factor:	75%
Temperature range:	-30°C...+80°C
Weight per 1 m:	30 g
Packaging:	100 m spool
Matching plug:	BNC0.8/3.7HD, BNC0.8/3.7-6G, 1-2457-2100-1

#### ELECTRICAL DATA

Surge impedance (at 200 MHz):	75 Ω ±3%
Capac. cond./shield. per 1 m:	55 pF
Cond. resistance per 1 km:	< 53 Ω
Shield. resistance per 1 km:	25.4 Ω
Velocity factor:	0.80
Attenuation per 100 m (20°C):	50 MHz: 7.5 dB    100 MHz: 9.9 dB 200 MHz: 14.9 dB    470 MHz: 21.6 dB 862 MHz: 31.8 dB    1000 MHz: 35.8 dB 1485 MHz: 43.6 dB    1750 MHz: 50.7 dB 2150 MHz: 57.1 dB    3000 MHz: 67.0 dB



**COLOR**  
★ black, PUR

**ORDER NO.**  
**600-0071L**

■ x00083

\*) Data depends on transmitter and receiver. Detailed table at [www.sommercable.com](http://www.sommercable.com) → Service → Techn. Info



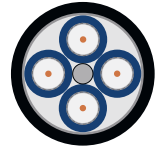
## VIDEO CABLE 0.8/3.7 [HD/UHD]

75 Ω, LONG-DISTANCE

### SC-VECTOR (RGB) 1X/2X/4X 0.8/3.7 UHD

MOBILE STUDIO INSTALL ELA

ANALOG DIGITAL CPR FRNC HALOGEN-FREE OFC HD/UHD



Sectional drawing multi coax

*As swift as an arrow ...*

is the data transmission of the **SC-VECTOR (RGB)** with its 1.5 Gbit/s rate which also guarantees a low return loss.

Of course, the **SC-VECTOR (RGB)** can also serve as a high-quality SDI video line for studio or OB van applications. With its dual shielding and outstanding attenuation values it offers numerous benefits compared to simple video cables. In comparison to a 0.6/3.7 / AWG23 video cable it allows up to 30 % longer transmission distances.

The **SC-VECTOR (RGB)** is used in OB vans, digital TV, at sporting events, live shows or other large events.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- Digital SDI/HD-SDI/3G-SDI long distance transmission
- Video transmission for OB van technology

#### PRODUCT ADVANTAGES:

- Low attenuation values for long distances
- Robust and durable outer sleeve

#### TECHNICAL DATA

Construction:	...x02YS(ST)CH0,8/3,7 HD-SDI	
Jacket, diameter:	PVC:	1 x coax: 6 mm
		2 x coax: 15 mm
		4 x coax: 17 mm
FRNC:	1 x coax:	6 mm
Inner conductors:	Copper-solid wire Ø 0.80 mm (AWG20)	
Conductor insulation:	Gas injected PE 3,7 mm	
Shielding:	AL/PT-foil + Copper braiding tin-plated 85%	
Shielding factor:	100 %	
Temperature range:	-10 °C ... +80 °C	
Fire load per m:	1 x coax:	0.16 kWh
	2 x coax:	0.9 kWh
	4 x coax:	1.5 kWh
Max. Transmission length:*	1 x coax:	121 m (SMPTE 425M, 3G),
		82 m (SMPTE 2081, 6G),
		51 m (SMPTE 2082, 12G)
	multi-coax:	109 m (SMPTE 425M, 3G),
		74 m (SMPTE 2081, 6G), 46 m (SMPTE 2082, 12G)
Weight per 1 m:	PVC:	1 x Koax: 40 g
		2 x Koax: 230 g
		4 x Koax: 320 g
	FRNC:	1 x Koax: 40 g
Packaging:	1 x coax: 100 m spool multi-coax: per m	
Matching plug:	BNC0.8/3.7HD, BNC0.8/3.7-6G, NBNC75BLP9X, 1-6052-2100-1	

#### ELECTRICAL DATA

Surge impedance (at 200 MHz):	75 Ω		
Capac. cond./shield. per 1 m:	52.9 pF		
Cond. resistance per 1 km:	< 37 Ω		
Screening attenuation:	> 95 dB		
Shield. resistance per 1 km:	20 Ω		
Max. delay (skew):	4 ns @ 100 MHz		
Velocity factor:	0.82		
Attenuation per 100 m (20°C):		1 x coax	multi coax
	200 MHz:	11.2 dB	11.8 dB
	470 MHz:	17.0 dB	18.1 dB
	862 MHz:	24.0 dB	26.0 dB
	1000 MHz:	26.4 dB	28.3 dB
	1485 MHz:	32.8 dB	35.8 dB
	1750 MHz:	35.9 dB	39.4 dB
	2150 MHz:	40.1 dB	44.0 dB
	3000 MHz:	47.9 dB	53.0 dB
	6000 MHz:	77.8 dB	83.5 dB
9000 MHz:	99.4 dB	107.4 dB	
12000 MHz:	118.6 dB	130.4 dB	
S.R.L Frequency (Return loss):	30+300 MHz:	>30 dB	-
	300+600 MHz:	>25 dB	-
	600+900 MHz:	>20 dB	-

#### COLOR

- black, PVC, 1 x coax 0.8/3.7
- blue, PVC, 1 x coax 0.8/3.7
- red, PVC, 1 x coax 0.8/3.7
- green, PVC, 1 x coax 0.8/3.7
- blue, PVC, 2 x coax 0.8/3.7
- black, PVC, 4 x coax 0.8/3.7
- blue, PVC, 4 x coax 0.8/3.7
- ★ blue, FRNC/Dca 1 x coax 0.8/3.7

#### ORDER NO.

- 600-0161**
- 600-0162**
- 600-0163** **NEW**
- 600-0164**
- 600-0162-02**
- 600-0161-04** **NEW**
- 600-0162-04**
- 600-0162FC** **NEW**



2 x00085

\*) Data depends on transmitter and receiver. Detailed table at [www.sommercable.com](http://www.sommercable.com) → Service → Techn. Info



**VIDEO CABLE 1.0/4.8 [HD/UHD]**

75 Ω, PVC, HALOGEN-FREE + FLAME-RETARDANT (FRNC)

**SC-RG CLASSIC BROADCAST 1.0/4.8 UHD**
 INSTALL  ELA

 ANALOG  DIGITAL  CPR  FRNC  HALOGEN-FREE  OFC  HD/UHD
*Suited for short and long distance flights ...*

this is our **RG classic broadcast 1.0/4.8 / AWG18 (0.039")**. It meets all the requirements placed on today's high-quality HD-SDI/HDTV cables, and the use of high-end materials promises a long service life. To achieve ultra-low attenuation values we have equipped the cable with a solid core wire oxygen-free copper (OFC), a gas-injected insulation and dual screening (copper braiding + AL/PT foil).

Please note the transmission distances for HD-SDI transfer stated in the technical data below. Of course, with analog video far greater transmission distances are possible.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

**APPLICATIONS:**

- HD-SDI video transmission in the professional broadcasting/studio sector
- OB van technology
- HF technology and antenna construction
- Permanent installation


 Ø mm  
**7.1**

 Shielding  
**100 %**

 Ø Wire  
**1.0**
**PRODUCT ADVANTAGES:**

- Great durability due to age-resistant jacket
- Consistent, optimized electrical values due to the use of a solid 18-gauge oxygen-free-copper conductor
- Gas-injected insulation for best attenuation values

**TECHNICAL DATA**

Construction:	02YS(ST)CH1.0/4.8 HD-SDI
Construction:	according to EN50117
Jacket, diameter:	PVC/FRNC 7.1 mm
Inner conductors:	Copper-solid wire 1 x 1.0 mm (AWG18)
Conductor insulation:	Gas Injected-PE 4.8 mm
Shielding:	Copper braiding tin-plated + AL/PT-foil
Shielding factor:	100 %
Temperature range:	-30 °C... +70 °C
Fire load per m:	0.21 kWh
Max. Transmission length:*	162 m (SMPT 425M, 3G), 113 m (SMPT 2081, 6G), 77 m (SMPT 2082, 12G)
Weight per 1 m:	64 g
Packaging:	100 m/500 m/1000 m spool
Matching plug:	NBNC75BUU11, NBNC75BTU11X, BNC1.0/4.6HDTV-T

**ELECTRICAL DATA**

Surge impedance:	75 Ω ± 1 %																								
Capac. cond./shield. per 1 m:	53 pF																								
Screening attenuation:	> 95 dB																								
Shield. resistance per 1 km:	7 Ω																								
D.C. resistance per km:	Inner cond. 22 Ω																								
Max. Delay (skew):	4 ns @100 MHz (per 100 m)																								
Velocity factor:	0.82																								
Attenuation per 100 m (20 °C):	<table border="1"> <tr> <td>50 MHz:</td> <td>4.5 dB</td> <td>200 MHz:</td> <td>8.9 dB</td> </tr> <tr> <td>470 MHz:</td> <td>13.9 dB</td> <td>862 MHz:</td> <td>18.5 dB</td> </tr> <tr> <td>1000 MHz:</td> <td>20.0 dB</td> <td>1485 MHz:</td> <td>24.5 dB</td> </tr> <tr> <td>1750 MHz:</td> <td>26.6 dB</td> <td>2150 MHz:</td> <td>30.0 dB</td> </tr> <tr> <td>3000 MHz:</td> <td>35.4 dB</td> <td>6000 MHz:</td> <td>52.0 dB</td> </tr> <tr> <td>9000 MHz:</td> <td>65.5 dB</td> <td>12000 MHz:</td> <td>77.4 dB</td> </tr> </table>	50 MHz:	4.5 dB	200 MHz:	8.9 dB	470 MHz:	13.9 dB	862 MHz:	18.5 dB	1000 MHz:	20.0 dB	1485 MHz:	24.5 dB	1750 MHz:	26.6 dB	2150 MHz:	30.0 dB	3000 MHz:	35.4 dB	6000 MHz:	52.0 dB	9000 MHz:	65.5 dB	12000 MHz:	77.4 dB
50 MHz:	4.5 dB	200 MHz:	8.9 dB																						
470 MHz:	13.9 dB	862 MHz:	18.5 dB																						
1000 MHz:	20.0 dB	1485 MHz:	24.5 dB																						
1750 MHz:	26.6 dB	2150 MHz:	30.0 dB																						
3000 MHz:	35.4 dB	6000 MHz:	52.0 dB																						
9000 MHz:	65.5 dB	12000 MHz:	77.4 dB																						

**COLOR**

■ green, PVC

★ green, FRNC/Dca

**ORDER NO.****600-0144****600-0144FC** **NEW**

x00086

**VIDEO, INSTRUMENT CABLE 1.2L/4.8 TRANSVERSELY WATERTIGHT [HD/UHD]**

75 Ω, SALTWATER-RESISTANT, HALOGEN-FREE

**SC-AQUA MARINEX VIDEO 1.2L/4.8 UHD**
 STAGE  MOBILE  INSTALL  ELA

 ANALOG  DIGITAL  AQUA  HALOGEN-FREE  PUR  HD/UHD
*Deep sea signal security ...*

Loss-free video signal transmission underwater is not only a challenge for the deep-sea diver, but for the cable as well. The 1.2L/4.8 / AWG18 (0.042") version is the HD-SDI variant of the **AQUA MARINEX 0.6L/3.7 / AWG23 (0.024")**, but with a gas-injected insulation and double shielding, for high-resolution Full HD picture formats and greater transmission distances. It is designed for permanent use in a maximum water depth of 50 m/160 ft., where it easily handles all kinds of attacks from small aquatic life and excessive water pressure.

Due to its asymmetrical construction the **AQUA MARINEX** may also be used as an instrument or audio-frequency phono cable. It has a black UV-resistant outer jacket, which can be readily overpainted with standard paint without affecting functionality nor finish.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

**APPLICATIONS:**

- HD-SDI video cable for permanent installation in shipbuilding, tunnel construction or sporting arenas
- Flexible HD-SDI video cable as camera supply line during dive sessions
- High-quality phono/audio line for audio signal transmissions
- High-resolution picture transmission, e.g. for use in sediment technology

 Ø mm  
**7.4**

 Shielding  
**90 %**

 Ø Conductor  
**1.06**
**PRODUCT ADVANTAGES:**

- Solid outer jacket and double copper braided shielding
- Reelable and high number of bending cycles
- Useable in water depths of 160 feet
- Special HD-PUR jacket maintains pliancy in cold conditions
- Uncompromising quality mechanically and electrically
- Useable with common BNC connectors

**TECHNICAL DATA**

Jacket, diameter:	PUR-SR 7.4 mm
Inner conductors:	0.88 mm <sup>2</sup> $\triangle$ Ø 1.06 mm (AWG18)
Copper strands per conductor:	7 x 0.40 mm
Conductor insulation:	PO 4.8 mm
Shielding:	2 x Copper braiding + special protective banding
Shielding factor:	90 %
Temperature range:	-40 °C...+80 °C
Max. water pressure/depth:	5 bars/50 m
Fire load per m:	0.38 kWh
Max. Transmission length:*	141 m (SMPT 425M, 3G), 96 m (SMPT 2081, 6G), 62 m (SMPT 2082, 12G)
Weight per 1 m:	81 g
Packaging:	per m
Matching plug:	BNC1.2/5.0HD, 1-4575-2100-1

**ELECTRICAL DATA**

Surge impedance:	75 Ω ± 3 %																
Capac. cond./shield. per 1 m:	52 pF																
Cond. resistance per 1 km:	23 Ω																
Shield. resistance per 1 km:	4.95 Ω																
Velocity factor:	0.78																
Attenuation per 100 m (20 °C):	<table border="1"> <tr> <td>200 MHz:</td> <td>9.3 dB</td> <td>1482 MHz:</td> <td>28.1 dB</td> </tr> <tr> <td>470 MHz:</td> <td>14.2 dB</td> <td>1750 MHz:</td> <td>30.3 dB</td> </tr> <tr> <td>862 MHz:</td> <td>21.0 dB</td> <td>2150 MHz:</td> <td>34.0 dB</td> </tr> <tr> <td>1000 MHz:</td> <td>23.0 dB</td> <td>3000 MHz:</td> <td>41.6 dB</td> </tr> </table>	200 MHz:	9.3 dB	1482 MHz:	28.1 dB	470 MHz:	14.2 dB	1750 MHz:	30.3 dB	862 MHz:	21.0 dB	2150 MHz:	34.0 dB	1000 MHz:	23.0 dB	3000 MHz:	41.6 dB
200 MHz:	9.3 dB	1482 MHz:	28.1 dB														
470 MHz:	14.2 dB	1750 MHz:	30.3 dB														
862 MHz:	21.0 dB	2150 MHz:	34.0 dB														
1000 MHz:	23.0 dB	3000 MHz:	41.6 dB														

**COLOR**

■ black, PUR-SR, HD-SDI

**ORDER NO.****605-0241AQ**

x00087

\*) Data depends on transmitter and receiver. Detailed table at www.sommercable.com → Service → Techn. Info

- Price lookup via QR code or search number at shop.sommercable.com • Subject to change • The General Terms and conditions apply (see www.sommercable.com) -

**VIDEO CABLE 1.2L/4.8DZ [HD/UHD]**

75 Ω, HD-SDI CABLE WITH DOUBLE COPPER SHIELDING

**SC-VECTOR PLUS 1.2L/4.8DZ UHD**
 MOBILE  STUDIO  INSTALL  ELA

 ANALOG  DIGITAL  FRNC  PUR  HALOGEN-FREE  
 OFC  HD/UHD
**New and improved ...**

Originally designed in the U.S., this rugged and reliable video and satellite cable originally had solid PE insulation, and yet the cable was not robust enough, and so we improved it. The new **SC-VECTOR PLUS 1.2L/4.8DZ / AWG18 (0.042")** is SDI/HD-SDI capable and reelable and thus may be used as a flexible video line! It has a foamed insulation with a protective lacquer, a 7 x 0.40 mm/AWG26 strand construction, two overlaying copper braidings each with 90 % coverage and a weather-proof and abrasion-proof PMB jacket. The copper braidings also make the cable extremely crush-resistant and offer protection against rodents.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

**APPLICATIONS:**

- Dual shielded cable for digital SAT systems and professional video technology
- Professional UHD-SDI applications
- Highly flexible and easy to reel

**PRODUCT ADVANTAGES:**

- Excellent transmission quality due to foam insulation
- Steadily consistent values
- UV-resistant and abrasion-proof PUR jacket, gnaw-resistant

**VIDEO CABLE 7 1.2L/4.8DZ [HD/UHD]**

75 Ω, XG-SDI MULTIPLE CABLE WITH 2 X BRAIDED SCREEN

**SC-VECTOR PLUS 1.2L/4.8DZ UHD**
 MOBILE  STUDIO  INSTALL  ELA

 ANALOG  DIGITAL  PUR  OFC  HD/UHD
**HD/UHD in a superflex version ...**

The SC-VECTOR PLUS 1.2L/4.8DZ / AWG18 (0.042") from **SOMMER CABLE** is eminently suited for daily mobile use on a reel. The PUR-MASTER-BLEND jacket is very flexible and still extremely robust. This reliably maintains inner mechanical stability and ensures constant HD transmission quality. Each HD-SDI conductor has a strand-wire compound structure and is surrounded by a gas-injected PE insulation (incl. protective lacquer skin) which guarantees optimum attenuation properties. The flexible screen construction is provided by a tight, braided double copper mesh. The Multi-DZ is the ideal cable for all live transmissions – be they indoor or outdoor.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

**APPLICATIONS:**

- Double-shielded cable for digital picture transmissions and professional video technology
- For professional broadcasting applications
- Highly flexible and easy to reel

**PRODUCT ADVANTAGES:**

- Excellent transmission quality due to foam insulation
- Constant specs in continuous operation
- UV-resistant and abrasion-proof PUR jacket, gnaw-resistant

**TECHNICAL DATA****1.2/4.8**

Construction:	1x02YSCCH1.2L/4.8
Jacket, diameter:	PUR 7.1 mm
Inner conductors:	1 x 0.88 mm <sup>2</sup> $\triangle$ $\varnothing$ 1.06 mm (AWG18)
Copper strands per conductor:	7 x 0.40 mm
Conductor insulation, diameter:	Foam/skin-PE 4.8 mm
Shielding:	2 x Copper braiding tin-plated
Shielding factor:	100 %
Temperature range:	-30 °C...+80 °C
Max. Transmission length:*	145 m (SMPTE 425M, 3G), 96 m (SMPTE 2081, 6G), 62 m (SMPTE 2082, 12G)
Weight per 1 m:	68 g
Packaging:	100 m spool / per m
Matching plug:	BNCl.2/5.0HD, BNCl.2/5.0-6G, 1-7090-2100-1, NBNC75BWU13, NBNC75BXU13X

**ELECTRICAL DATA**

Surge impedance:	75 Ω $\pm$ 2%
Capac. cond./shield. per 1 m:	53 pF
Cond. resistance per 1 km:	20 Ω
Shield. resistance per 1 km:	5.6 Ω
D.C. resistance per km:	Inner conductors 21 Ω
Velocity factor:	0.86
Attenuation per 100 m (20 °C):	200 MHz: 9.4 dB    470 MHz: 14.7 dB 862 MHz: 20.4 dB    1000 MHz: 21.9 dB 1485 MHz: 27.2 dB    1750 MHz: 29.9 dB 2150 MHz: 33.5 dB    3000 MHz: 41.5 dB 6000 MHz: 64.8 dB    9000 MHz: 83.7 dB 12000 MHz: 100.9 dB

**COLOR**

- green, **SOFT PUR FRNC**
- black, **SOFT PUR FRNC**

**ORDER NO.**

**600-0214**  
**600-0211**



x00089

**TECHNICAL DATA****1.2/4.8**

Construction:	x02YSCCH1.2L/4.8
Jacket, diameter:	PMB, 21.8 mm/28.5 mm
Inner conductors:	7 x 0.88 mm <sup>2</sup> $\triangle$ $\varnothing$ 1.06 mm (AWG18)
Copper strands per conductor:	7 x 0.40 mm
Conductor insulation, diameter:	Foam/skin-PE 4.8 mm
Shielding:	2 x Copper braiding tin-plated
Shielding factor:	100 %
Temperature range:	-30 °C...+80 °C
Max. Transmission length:*	130 m (SMPTE 425M, 3G), 86 m (SMPTE 2081, 6G), 56 m (SMPTE 2082, 12G)
Weight per 1 m:	520 g/990 g
Packaging:	100 m spool / per m
Matching plug:	BNCl.2/5.0HD, BNCl.2/5.0-6G, 1-7090-2100-1, NBNC75BWU13, NBNC75BXU13X

**ELECTRICAL DATA**

Surge impedance:	75 Ω $\pm$ 2%
Capac. cond./shield. per 1 m:	53 pF
Cond. resistance per 1 km:	20 Ω
Shield. resistance per 1 km:	5.6 Ω
D.C. resistance per km:	Inner conductors 21 Ω
Velocity factor:	0.86
Attenuation per 100 m (20 °C):	200 MHz: 10.8 dB    470 MHz: 16.9 dB 862 MHz: 23.4 dB    1000 MHz: 25.1 dB 1485 MHz: 31.2 dB    1750 MHz: 34.3 dB 2150 MHz: 38.5 dB    3000 MHz: 46.8 dB

**COLOR**

- green, **PMB**, 4 x coax
- green, **PMB**, 7 x coax

**ORDER NO.**

**600-0214-04**  
**600-0214-07**



x00090

\*) Data depends on transmitter and receiver. Detailed table at www.sommecable.com → Service → Techn. Info

– Price lookup via QR code or search number at shop.sommecable.com • Subject to change • The General Terms and conditions apply (see www.sommecable.com) –



**VIDEO CABLE 1.2L/5.0 [HD/UHD]**

75 Ω, LONG-DISTANCE WITH PVC OR FRNC JACKET

**SC-VECTOR PLUS 1.2L/5.0 UHD**

- MOBILE  STUDIO  INSTALL  ELA
- ANALOG  DIGITAL  CPR  FRNC  HALOGEN-FREE
- OFC  HD/UHD

*All the way to the horizon ...*

and then some more is how far you can lay the **SC-VECTOR PLUS 1.2/5.0** / AWG18 (0.042"), because with its special dimensions and construction it has been designed for long distance HD-SDI applications. The **SC-VECTOR PLUS 1.2/5.0** / AWG18 (0.042") has an excellent shielding (100 %) made of tinned copper braiding plus AL/PT foil. The cable is very flexible and also suitable for mobile use on a cable reel. It is available in a single coax or a 5 x coax version with a PVC and FRNC jacket (according to test type C, IEC60332.3c). With HD-SDI the transmission range depends on the bitrate used (compressed or uncompressed). At 1.485 Gbit/s (uncompressed) the attenuation value is drawn on at half the bitrate (720 MHz). The achievable cable length at a attenuation value < 30 dB is considered as a relevant parameter.

**FREE SAMPLE AVAILABLE!**  
Sectional drawing see website.

**APPLICATIONS:**

- Digital HD/SDI long-distance transmission, 3G in duplex mode
- Cabling for sporting events and big TV events; OB van technology

**PRODUCT ADVANTAGES:**

- Superb attenuation values for long distances
- Robust and durable outer jacket, reelable

TECHNICAL DATA	1.2/5.0
Construction:	xx02YS(ST)CH1.2/5.0
Jacket, diameter:	6.95 mm
Jacket material:	Standard in PVC; halogen-free FRNC accord. to Test Type C
Inner conductors:	1 x 0.88 mm <sup>2</sup> (AWG18) $\Delta$ Ø 1.06 mm
Copper strands per conductor:	7 x 0.40 mm
Conductor insulation:	Foam/skin-PE 5.0 mm
Shielding:	AL/PT-foil + copper braiding 80% tin-plated
Shielding factor:	100%
Temperature range:	-10°C...+80°C
Max. Transmission length:*	162 m (SMPTE 425M, 3G), 111 m (SMPTE 2081, 6G), 78 m (SMPTE 2082, 12G)
Fire load per m:	0.20 kWh
Weight per 1 m:	55 g
Packaging:	per m
Matching plug:	BNC1.2/5.0HD, BNC1.2/5.0-6G, NBNC75BWU13, 1-7090-2100-1

ELECTRICAL DATA		
Surge impedance (per 200 MHz):	75 Ω ±2%	
Capac. cond./shield. per 1 m:	52 pF	
Cond./Shield. resistance per 1 km:	< 21 Ω (Conductor) / 11 Ω (Shield)	
Velocity factor:	0.80	
Attenuation per 100 m (20°C):	200 MHz: 8.6 dB	470 MHz: 13.4 dB
	862 MHz: 18.2 dB	1.000 MHz: 19.9 dB
	1.485 MHz: 24.5 dB	1.750 MHz: 26.7 dB
	2.150 MHz: 29.9 dB	3.000 MHz: 35.9 dB
	6.000 MHz: 51.5 dB	9.000 MHz: 63.5 dB
	12.000 MHz: 73.5 dB	
S.R.L Frequency/:	30+300 MHz: >23 dB	600+900 MHz: >15 dB
(Return loss)	300+600 MHz: >20 dB	

COLOR	ORDER NO.	
■ green, PVC	<b>600-0174</b>	
★ green, FRNC/Dca	<b>600-0174FC</b>	<b>NEW</b>
■ green, FRNC/Cca	<b>600-0274FC</b>	<b>NEW</b>



**VIDEO CABLE 5X1.2L/5.0 [HD/UHD]**

75 Ω, LONG-DISTANCE 5-FOLD WITH PVC OR FRNC JACKET

**SC-VECTOR PLUS 5X1.2L/5.0 UHD**

- MOBILE  STUDIO  INSTALL  ELA
- ANALOG  DIGITAL  FRNC  HALOGEN-FREE  OFC
- HD/UHD

*Several football fields ...*

that's the distance our multi-coax **SC-VECTOR PLUS** can cover hands-down for the transmission of HD-SDI signals (SMPTE 259M), due to its large wire cross-section of 0.88 mm<sup>2</sup>. In addition, a double screen of a tinned CU mesh plus AL/PT foil provides a 100 % optical coverage and optimum attenuation values (6.5 dB at 100 m and 100 MHz). This design guarantees a shadow- and flicker-free picture. Our customers love to use the cable for fixed installations in sports arenas, theaters, media & congress centers or studios. Also available with a black overall outer jacket.

**FREE SAMPLE AVAILABLE!**  
Sectional drawing see website.

**APPLICATIONS:**

- Digital HD/SDI long-distance transmission, 3G in duplex mode
- Cabling for sporting events and big TV events; OB van technology

**PRODUCT ADVANTAGES:**

- Superb attenuation values for long distances
- Robust and durable outer jacket, reelable

TECHNICAL DATA	5 X 1.2/5.0
Construction:	5x02YS(ST)...
Jacket, diameter:	22.1 mm
Jacket material:	Standard in PVC self-extinguishing; halogen-free FRNC accord. to Test Type C
Inner conductors:	5 x 0.88 mm <sup>2</sup> (AWG18) $\Delta$ Ø 1.06 mm
Copper strands per conductor:	7 x 0.40 mm
Conductor insulation:	Foam/skin-PE 5.0 mm
Shielding:	AL/PT-foil + copper braiding 80% tin-plated
Shielding factor:	100%
Temperature range:	-10°C...+80°C
Max. Transmission length:*	146 m (SMPTE 425M, 3G), 100 m (SMPTE 2081, 6G), 70 m (SMPTE 2082, 12G)
Fire load per m:	2.1 kWh
Weight per 1 m:	510 g
Packaging:	per m
Matching plug:	BNC1.2/5.0HD, BNC1.2/5.0-6G, NBNC75BWU13, 1-7090-2100-1

ELECTRICAL DATA		
Surge impedance (per 200 MHz):	75 Ω ±2%	
Capac. cond./shield. per 1 m:	52 pF	
Cond./Shield. resistance per 1 km:	< 21 Ω (Conductor) / 11 Ω (Shield)	
Velocity factor:	0.80	
Attenuation per 100 m (20°C):	200 MHz: 9.9 dB	470 MHz: 15.4 dB
	862 MHz: 20.9 dB	1.000 MHz: 22.8 dB
	1.485 MHz: 28.0 dB	1.750 MHz: 30.5 dB
	2.150 MHz: 34.3 dB	3.000 MHz: 41.5 dB
S.R.L Frequency/:	30+300 MHz: >23 dB	600+900 MHz: >15 dB
(Return loss)	300+600 MHz: >20 dB	

COLOR	ORDER NO.	
■ green, PVC self-extinguishing, 5 x coax	<b>600-0174-05</b>	
■ green, FRNC, 5 x Koax	<b>600-0174-05F</b>	
■ black, PVC self-extinguishing, 5 x coax	<b>600-0171-05</b>	<b>NEW</b>



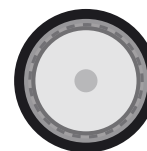
\* Data depends on transmitter and receiver. Detailed table at www.sommercable.com → Service → Techn. Info

## VIDEO CABLE 1.3/5.7 [HD/UHD]

75 Ω, COMPACT, PATCH

## SC-VECTOR PLUS 1.3/5.7 UHD-2

MOBILE 
  STUDIO 
  INSTALL 
  ELA  
 ANALOG 
  DIGITAL 
  CPR 
  OFC 
  HD/UHD



Sectional drawing

## The eye of an eagle ...

has a resolution about 3 to 4 times higher than that of the human eye. Thus the 12G UHD-SDI transmission standard enables such high visual resolutions so that the human eye cannot distinguish them any more from the original site. Owing to its compact diameter of 8.1 mm and the optimized screen design the **SC-VECTOR PLUS 1.3/5.7** delivers extremely low attenuation values which have been known so far only from much thicker cables. For the conductor we use a silver-plated solid wire with ultra low tolerances, embedded in a gas-foamed (skin/gas/skin) insulation which is smoothed both inside and out.

The triple shielding provided by two robust, stretchable AL/PTE foils and a dense tinned copper mesh with 95 % coverage prevents interferences as well as an influence on the electrical values. These high-end parameters guarantee a perfect and error-free transmission of the following standards: SMPTE 259M (520 m/1.706 ft.), SMPTE 292M (146 m/479 ft.), SMPTE 424M (99 m/325 ft.), SMPTE 425M (199 m/653 ft.), SMPTE 2081 (136 m/446 ft.) und SMPTE 2082 (94 m/308 ft.). The robust outer jacket is made of a cold-flexible, durable and UV-resistant SPVC.

**FREE SAMPLE AVAILABLE!****APPLICATIONS:**

- Digital HD/UHD-SDI 4K long-distance transmission
- Wiring applications in the radio, broadcasting and surveillance industry, connection for stadium building and sports events in general
- Ideal broadband, antenna and video cable

**PRODUCT ADVANTAGES:**

- Triple shielding with 100 % coverage
- Extremely durable and temperature-resistant components (silver-plated litz wires, smoothed insulation, UV-resistant jacket)
- Super low attenuation with a small diameter

BULK CABLE - VIDEO

**TECHNICAL DATA**

Construction:	02YS(ST)C(ST)Y1.3/5.7
Jacket, diameter:	PVC 8.1 mm
CPR euroclass:	Eca
Inner conductor:	Silver-plated solid Cu wire 1.3 mm (AWG16)
Conductor insulation:	Foam/skin PE 5.7 mm
Shielding:	AL/PT foil + Cu mesh, tinned + 2nd AL/PT foil
Shielding factor:	100 %
Temperature range:	-10 °C ... +80 °C
Fire load per m:	0.22 kWh
Max. transmission length:*	199 m (SMPTE 425M, 3G), 136 m (SMPTE 2081, 6G), 94 m (SMPTE 2082, 12G)
Weight per m:	90 g
Packaging:	Sold by meter
Matching connectors:	BNC1.3/5.7-6G, NBNC75BZV14X

**ELECTRICAL DATA**

Surge impedance:	75 Ω																								
Capac. cond./shield. per 1 m:	53 pF																								
Conductor resistance per 1 km:	13 Ω																								
Shielding efficiency:	> 120/130 dB																								
Shielding resistance per 1 km:	6.2 Ω																								
Velocity factor:	0.84																								
Attenuation/100 m (20 °C):	<table border="1"> <tr> <td>50 MHz:</td> <td>3.5 dB</td> <td>100 MHz:</td> <td>4.8 dB</td> </tr> <tr> <td>270 MHz:</td> <td>8.0 dB</td> <td>540 MHz:</td> <td>11.5 dB</td> </tr> <tr> <td>1000 MHz:</td> <td>16.1 dB</td> <td>1485 MHz:</td> <td>20.1 dB</td> </tr> <tr> <td>2000 MHz:</td> <td>23.7 dB</td> <td>2250 MHz:</td> <td>25.3 dB</td> </tr> <tr> <td>3000 MHz:</td> <td>29.8 dB</td> <td>6000 MHz:</td> <td>42.7 dB</td> </tr> <tr> <td>12000 MHz:</td> <td>64.5 dB</td> <td></td> <td></td> </tr> </table>	50 MHz:	3.5 dB	100 MHz:	4.8 dB	270 MHz:	8.0 dB	540 MHz:	11.5 dB	1000 MHz:	16.1 dB	1485 MHz:	20.1 dB	2000 MHz:	23.7 dB	2250 MHz:	25.3 dB	3000 MHz:	29.8 dB	6000 MHz:	42.7 dB	12000 MHz:	64.5 dB		
50 MHz:	3.5 dB	100 MHz:	4.8 dB																						
270 MHz:	8.0 dB	540 MHz:	11.5 dB																						
1000 MHz:	16.1 dB	1485 MHz:	20.1 dB																						
2000 MHz:	23.7 dB	2250 MHz:	25.3 dB																						
3000 MHz:	29.8 dB	6000 MHz:	42.7 dB																						
12000 MHz:	64.5 dB																								

**COLOR**

- black, PVC/Eca
- black, PVC/Eca, w/o overprint

**ORDER NO.**

600-0131 **NEW**  
600-0131NE **NEW**



x01666

\*) Data depends on transmitter and receiver. Detailed table at www.sommecable.com → Service → Techn. Info

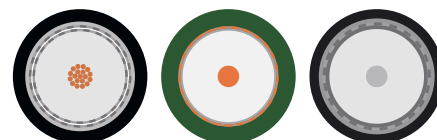


## VIDEO CABLE 1.6L/7.3 / 1.6/7.0 [HD/UHD]

75 Ω, PVC, HALOGEN-FREE + FLAME-RETARDANT (FRNC) LONG-DISTANCE

### SC-VECTOR PLUS RCB UHD-2

⊗ MOBILE ⊗ INSTALL ⊗ ELA  
ANALOG DIGITAL CPR FRNC HALOGEN-FREE OFC HD/UHD



Sectional drawing

### Simultaneous interpreters ...

are true multitasking artists who expertly master the art of listening, translating and speaking the translated content all at once. Like them, the **SC-VECTOR PLUS RCB** cable can also multi-task. With UHD-SDI transmission, you can send a high-resolution 1080p video signal over the cable at the same time as you embed additional data such as 16 frame-synchronous digital audio channels (AES-3 according to SMPTE 272M and 299M), timecode control data and error checking packets along with it. This will save you from needing some extra audio cables or control lines. For the high 6G-SDI bandwidths (6 Gbit/s according to SMPTE 424M), our 6G-SDI cable series is the perfect means of transport. Ultra-low attenuation values below 30 dB @ 2.97 Gbit/s are provided by the large 1.6 mm OFC inner conductor with its special gas-injected skin-foam-skin insulation plus dual shielding. The solid-wire version is the perfect choice for professional media installations in TV studios and broadcasting vans, while the more reelable strand-wire version may be easier to work with on mobile assignments due to its flexibility.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Digital UHD-SDI video transmission in the professional broadcast/OB van/studio sector, HF technology and antenna construction
- Mobile UHD-SDI transmissions
- Professional media-technical permanent installation according to 6G standard

#### PRODUCT ADVANTAGES:

- Long life due to non-aging jacket
- Constant optimized electrical values owing to intelligent cable design
- Gas-injected skin-foam-skin insulation for optimal attenuation values and long distances



TECHNICAL DATA	SC-VECTOR PLUS RCB MOBILE	SC-VECTOR PLUS RCB INSTALL	SC-VECTOR PLUS RCB 4K RG11/U
Construction:	02YS(ST)CH1.6L/7.3	02YS(ST)CH1.6/7.0	02YS(ST)CY1.6/7.1
Jacket. diameter:	PVC 10.3 mm	PVC/FRNC 10.2 mm	PVC 10.1 mm
Inner conductors:	7 x 0.53 mm litz wires (AWG16) $\approx$ $\varnothing$ 1.40 mm	1 x 1.60 mm solid Cu wire (AWG14)	1 x 1.63 mm solid Cu wire (AWG14)
Conductor insulation. diameter:	Skin-Foam-Skin-PE 7.3 mm	Gas Injected-PE 7.0 mm	Gas Injected-PE 7.1 mm
Shielding:	Double Cu braiding. tinned	Cu braiding + AL/PT foil	AL foil + Cu braiding. tinned + 2nd AL foil
Shielding factor:	100 %	100 %	100 %
Temperature range:	-30 °C... +80 °C	-25 °C... +80 °C	-30 °C... +75 °C
Fire load per m:	0.58 kWh	0.73 kWh	0.36 kWh
Max. Transmission length:*	198 m (SMPTE 425M. 3G). 121 m (SMPZE 2021. 6G). 72 m (SMPTE 2082. 12G)	234 m (SMPTE 425M. 3G). 156 m (SMPTE 2081. 6G). 101 m (SMPTE 2082. 12G)	252 m (SMPTE 425M. 3G). 172 m (SMPTE 2081. 6G). 116 m (SMPTE 2082. 12G)
Weight per 1 m:	140 g	120 g	130 g
Packaging:	100 m/500 m/1000 m Rolle	100 m/500 m/1000 m Rolle	100 m/500 m/1000 m Rolle
Matching plug:	BNC1.6/7.3-6G. NBLC75BVZ17	BNC1.6/7.3-6G. NBLC75BVZ17	BNC1.6/7.3-6G. NBLC75BVZ17

#### ELECTRICAL DATA

Surge impedance:	75 Ω ± 1 %	75 Ω ± 1 %	75 Ω ± 1 %
Capac. cond./shield. per 1 m:	52.4 pF	53 pF	52.5 pF
Screening attenuation:	> 90 dB	> 90 dB	115 dB
Shield. resistance per 1 km:	10 Ω	10 Ω	5 Ω
D.C. resistance per km:	Inner conductors 8.7 Ω	Inner conductors 8.7 Ω	Inner conductors 8.3 Ω / outer conductors 5.1 Ω
Max. Delay (skew):	3.95 ns @100 MHz	3.95 ns @100 MHz	3.97 ns @100 MHz
Velocity factor:	0.82	0.8	0.85
Attenuation per 100 m (20°C):	200 MHz: 6.5 dB 470 MHz: 10.3 dB 862 MHz: 14.6 dB 1.000 MHz: 15.9 dB 1.485 MHz: 20.1 dB 1.750 MHz: 22.2 dB 2.150 MHz: 25.3 dB 3.000 MHz: 32.9 dB 6.000 MHz: 55.9 dB 9.000 MHz: 75.9 dB 12.000 MHz: 95.1 dB	200 MHz: 5.3 dB 470 MHz: 8.4 dB 862 MHz: 11.9 dB 1.000 MHz: 13.0 dB 1.485 MHz: 17.0 dB 1.750 MHz: 18.7 dB 2.150 MHz: 19.4 dB 3.000 MHz: 25.6 dB 6.000 MHz: 39.5 dB 9.000 MHz: 51.7 dB 12.000 MHz: 63.1 dB	200 MHz: 5.5 dB 470 MHz: 8.5 dB 862 MHz: 11.8 dB 1.000 MHz: 12.8 dB 1.485 MHz: 15.7 dB 1.750 MHz: 17.3 dB 2.150 MHz: 19.2 dB 3.000 MHz: 23.2 dB 6.000 MHz: 34.3 dB 9.000 MHz: 44.0 dB 12.000 MHz: 53.8 dB

COLOR	ORDER NO.	ORDER NO.	ORDER NO.
■ black. PVC	<b>600-0221</b>	-	<b>600-0281</b> <b>NEW</b>
■ green. PVC	<b>600-0224</b>	<b>600-0234</b>	-
★ green. FRNC/Dcca	-	<b>600-0234FC</b> <b>NEW</b>	-



\*) Data depends on transmitter and receiver. Detailed table at www.sommercable.com → Service → Techn. Info

BULK CABLE - VIDEO



## RG59 + CONTROL

RG59, VIDEO 75 Ω + 2 x 0.75 mm<sup>2</sup>

### SC-CLASSIC CONTROL

INSTALL

ANALOG DIGITAL OFC



Sectional drawing

*For the curious who like to be in control ...*

we have developed this cable. It contains a high-quality RG59 video line and two additional insulated wires in one jacket.

The **Classic Control** is designed for connecting surveillance monitors, where the 2 x 0.75 mm<sup>2</sup>/AWG18 wires are used as a control line. The cable has a robust PVC jacket which is ideal for outdoor installation.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Connection of surveillance monitors
- Studio and fixed installations

#### PRODUCT ADVANTAGES:

- 75 Ω cable and control line in one cable
- Very durable and rugged due to high-quality PVC jacket
- Very easy to work with and reasonably priced

Ø mm  
**10.5**

Shielding  
**90%**

#### TECHNICAL DATA

SC-CLASSIC CONTROL 2075	
Construction:	[LI02YSC12Y0.60 mm+2(LI2Y0.75 mm <sup>2</sup> )]Y
Jacket, diameter:	PVC 10.5 mm
Inner conductors:	1 x 0.6 mm (AWG23/1) (video) 2 x 0.75 mm <sup>2</sup> (control)
Copper strands per cond. (video):	1 x 0.60 mm copper-solid wire
Conductor insulation:	PE 3.7 mm
Shielding (video):	Copper braiding
Shielding factor:	90 %
Temperature range:	-20 °C...+70 °C
Fire load per m:	0.30 kWh
Weight per 1 m:	122 g
Packaging:	per m
Matching plug:	BNC0.6/3.7, BNC59, NBNC75BLP7

#### ELECTRICAL DATA

Surge impedance (video):	75 Ω ± 3 %
Capac. cond./shield. per 1 m:	67 pF
Cond. resistance per 1 km:	150 Ω
Attenuation per 100 m (20 °C):	5 MHz: 2.5 dB
	50 MHz: 5.6 dB
	100 MHz: 7.7 dB
	200 MHz: 11.8 dB
	470 MHz: 22.3 dB
	862 MHz: 36.0 dB
	1000 MHz: 40.4 dB
	1485 MHz: 54.0 dB
	1750 MHz: 60.5 dB
	2150 MHz: 68.6 dB

#### COLOR

■ black

#### ORDER NO.

**600-0481-2075**



■ x00096



## 75 Ω + POWER COMBO CABLE

VIDEO 75 Ω 0.6/2.8 + 3 x 0.75 mm<sup>2</sup>

### SC-OBSERVER 1 HD

STUDIO INSTALL

ANALOG DIGITAL OFC



Sectional drawing

*When cables get married ...*

then it's forever! Here the video and the power lines are inseparably united in one jacket.

The **OBSERVER** consists of a high-quality 75 Ω video line, which is surrounded by a power cable with a wire cross-section of 3 x 0.75 mm<sup>2</sup>/AWG18. This construction allows it to transmit video signals and at the same time supply power to the monitor or the camera. The cable is very flexible, cold-resistant, robust and very easy to work with.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Control of surveillance monitors
- Studio and fixed installations

#### PRODUCT ADVANTAGES:

- 75 Ω cable and power line in one cable
- Very durable and rugged due to high-quality PVC or PUR jacket
- Very good attenuation values of the 75 Ω video line
- Excellent shielding owing to the Combination of copper braiding plus AL/PT foil

Ø mm  
**9.7**

Shielding  
**100%**

#### TECHNICAL DATA

Construction:	LI02YSC12Y0.60mm+3x0.75 mm <sup>2</sup>
Jacket, diameter:	S-PVC 9.7 mm
Inner conductors (video):	1 x 0.6 mm (AWG23/1)
Copper strands per cond. (video):	1 x 0.60 mm copper-solid wire
Conductor insulation (video):	Gas injected PE 2.8 mm
Shielding (video):	Copper braiding tin-plated + AL/PT-foil
Shielding factor:	100 %
Temperature range:	-20 °C...+80 °C
Fire load per m:	0.38 kWh
Weight per 1 m:	110 g
Packaging:	per m
Matching plug:	BNC0.6/2.8-T BNC0.6/2.8HD NBNC75BFG7

#### ELECTRICAL DATA

Surge impedance (video):	75 Ω ± 1 %
Capac. cond./shield. per 1 m:	55 pF
Cond. resistance per 1 km:	62.2 Ω
Attenuation per 100 m (20 °C):	50 MHz: 7.3 dB
	100 MHz: 10.8 dB
	200 MHz: 14.5 dB
	470 MHz: 22.7 dB
	862 MHz: 31.1 dB
	1000 MHz: 33.6 dB
	1485 MHz: 41.2 dB
	1750 MHz: 45.5 dB
	2150 MHz: 49.5 dB

Nominal Voltage: 300 V

#### COLOR

■ black, video HD + 3 x 0.75 mm<sup>2</sup>, PVC

#### ORDER NO.

**600-2101**



■ x00097



## HDMI CABLE [UHD]

5 x (2 x 0.50 mm) + 1 x (2 x 0.14 mm<sup>2</sup>) + 2 x 0.14 mm<sup>2</sup>

### TRANSIT HIGH SPEED HDMI WITH ETHERNET

✗ STUDIO ✗ INSTALL ✗ HIFI  
DIGITAL HDTV OFC

#### One for everything ...

the **TRANSIT HIGH SPEED HDMI WITH ETHERNET** is definitely a high-class HDMI cable for the transmission of digital image and sound data, excellent for both professional media technology and consumer electronics.

When fitted with our HICON HI-HD-M HDMI connector (assuming professional assembly) it transmits the Ultra-High Definition resolution (3840 x 2160 pixels at 30 Hz; 4096 x 2160 pixels at 40 Hz) plus Ethernet and audio return channel signals. It is suitable for "3D videos" and 4K transmissions and is downward compatible with all previous HDMI standards. Depending on the hardware or the quality of the interface respectively, greater transmission distances of up to 25 m/ 80 ft. can also be realized owing to the large cross-section. The cable has a solid triple shielding against external interference.

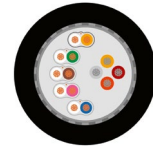
**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Digital transmission of audio and video data using the latest HDMI standard
- Professional media technology and home entertainment
- Laying in cable conduits

#### PRODUCT ADVANTAGES:

- 1080p image resolution (Full HD), 2K, 4K
- Large cross-section for increased transmission distances
- Solid triple shielding against external interference
- Current standard, downward compatible with previous standards



Sectional drawing



Matching connectors:  
**HI-HD-M** and **HI-HD-MSK** x01524

#### TECHNICAL DATA

Construction:	[(5(2LI2YS0.50 mm))+1(2LI2Y0.14 mm <sup>2</sup> )+(LIY2x0.14 mm <sup>2</sup> )](ST)CY		
Jacket, diameter:	PVC 9.6 mm		
Inner conductors:	5 x (2 x 0.50 mm (AWG24/1)) +1 x (2 x 0.14 mm <sup>2</sup> (AWG26/7)) +2 x 0.14 mm <sup>2</sup> (AWG26/7)		
Conductor insulation:	Foam/skin-PE 1.4 mm/PE		
Shielding:	cross braiding tin-plated + AL/PT-foil + drain wire		
Shielding factor:	100 %		
Temperature range:	0 °C...+80 °C		
Weight per 1 m:	107 g		
Packaging:	per m		
Matching plug:	HI-HD-M, HI-HD-MSK		

#### ELECTRICAL DATA

Surge impedance:	100 Ω		
Capac. cond./cond. per 1 m:	90 pF		
Cond. resistance per 1 km:	< 90 Ω		
Insulat. resistance per 1 km:	> 10 MΩ		
Velocity factor:	0.73		
Max. Delay:	5.05 ns @ 100 MHz		
Attenuation per 100 m (20°C):	50 MHz:	2.8 dB	100 MHz: 3.9 dB
	200 MHz:	5.9 dB	470 MHz: 8.1 dB
	862 MHz:	12.3 dB	1000 MHz: 13.7 dB
Band width at 340 MHz:	max. 18 GBit/s		

#### COLOR

■ black

#### ORDER NO.

**612-0251**



x00095

## VIDEO/CAT.7/AUDIO/POWER COMBO CABLE [HD/UHD]

75 Ω LONG-DISTANCE (1.2L/4.8 DZ) + 1 x NETWORK CAT.7 (10 GBIT) (+ 2 x 0.15 mm<sup>2</sup> AUDIO) / (+ 3 x 2.5 mm<sup>2</sup> POWER)

### TRANSIT MC 1001 / 2001 / 1101 / 1031 UHD

MOBILE
STUDIO
INSTALL  
ANALOG
DIGITAL
OFC
HD/UHD



#### A lot of talents ...

is what our **SC-TRANSIT MC** hybrid series can offer. It enables a great variety of different combinations of audio/video/network and power lines.

The basis of the series is the **TRANSIT MC 1001 HD** which consists of an HD-capable video and a 10 Gbit-compliant CAT line. It was especially optimized for use on a cable drum. Different from the common non-circular tube designs, the outer jacket is completely molded with a high-quality, cold-flexible S-PVC compound. The individual elements of the HD-SDI video cable and of the CAT-7 cable also have a notch-resistant PUR jacket to protect the cable interior and the injected high-quality skin/gas foaming against adverse conditions from outside.

The other versions of the series were either supplemented with a second video line (**TRANSIT 2001 MC HD**), an extra AES/EBU-compliant audio line (**TRANSIT 1101 MC HD**) or 3 x 2.5mm<sup>2</sup> for the power supply (**TRANSIT MC 1031 HD**).

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Digital HD-SDI long-distance transmission incl. digital audio network and power supply
- Ideal for OB van use, sport meetings and big events
- Installation (broadcast, studio, conference rooms, building services engineering)

#### PRODUCT ADVANTAGES:

- 10 Gbit compliant network and HD-SDI compliant video transmission in a single cable
- Excellent shielding
- Low attenuation values for long-distance transmissions in HD

#### TECHNICAL DATA

	1 TRANSIT MC 1001 HD	2 TRANSIT MC 2001 HD
Construction:	[(02YSCCHI.2L/4.8)+(S/FTP4x2xAWG23/7)]Y	[2x(02YSCCHI.2L/4.8)+(S/FTP4x2xAWG23/7)]Y
Jacket, diameter:	Total: S-PVC flame-retardant: 19.5 mm Video: PUR 7.1 mm CAT.7: PUR 8.5 mm	Total: S-PVC flame-retardant: 20.4 mm Video: PUR 7.1 mm CAT.7: PUR 8.5 mm
Inner conductors:	Video: 1 x 0.88 mm <sup>2</sup> $\triangleq$ $\varnothing$ 1.06 mm (AWG18) CAT.7: 4 x 2 x 0.26 mm <sup>2</sup> (AWG23/7)	Video: 2 x (1 x 0.88 mm <sup>2</sup> $\triangleq$ $\varnothing$ 1.06 mm) (AWG18) CAT.7: 4 x 2 x 0.26 mm <sup>2</sup> (AWG23/7)
Copper strands per conductor:	Video: 7 x 0.40 mm CAT.7: 7 x 0.22 mm	Video: 7 x 0.40 mm CAT.7: 7 x 0.22 mm
Conductor insulation:	Video: Foam/Skin-PE 4.8 mm	Video: Foam/Skin-PE 4.8 mm
Shielding:	Video: 2 x Copper braiding tinned CAT.7: Copper braiding tinned + AL/PT foil for each wire pair	Video: 2 x Cu mesh, tinned CAT.7: Cu mesh, tinned + AL/PT foil per wir pair
Shielding factor:	100 %	100 %
Temperature range:	-20 °C...+70 °C	-20 °C...+70 °C
Fire load per m:	1.52 kWh	2.16 kWh
Weight per 1 m:	210 g	455 g
Packaging:	per m	per m
Matching plug:	Video: BNC1.2/5.0-HD, NBNC75BWU13 CAT.7: RJ45C6XL, RJ45C6XL-A, NE8MX6	Video: BNC1.2/5.0-HD, NBNC75BWU13 CAT.7: RJ45C6XL, RJ45C6XL-A, NE8MX6

#### ELECTRICAL DATA

Surge impedance:	75 Ω (video)/100 Ω (CAT.7)	75 Ω (video)/100 Ω (CAT.7)
Capac. cond./cond. per 1 m:		
Capac. cond./shield. per 1 m:	53 pF (video)	53 pF (video)
Attenuation per 100 m (20 °C) video:	200 MHz: 9.4 dB 470 MHz: 14.7 dB 862 MHz: 20.4 dB 1000 MHz: 21.9 dB 1485 MHz: 27.2 dB 1750 MHz: 29.9 dB 2150 MHz: 33.5 dB 3000 MHz: 40.8 dB	200 MHz: 9.4 dB 470 MHz: 14.7 dB 862 MHz: 20.4 dB 1000 MHz: 21.9 dB 1485 MHz: 27.2 dB 1750 MHz: 29.9 dB 2150 MHz: 33.5 dB 3000 MHz: 40.8 dB

ORDER NO.

600-1001 **NEW**



x01464

600-2001 **NEW**



x01667





1



2

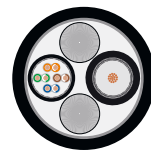


3

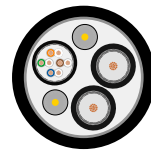


4

Sectional drawing



1



2



3



4

**TECHNICAL DATA**

**3 TRANSIT MC 1101 HD**

**4 TRANSIT MC 1031 HD**

Construction:	[(02YSCCH1.2L/4.8)+(S/FTP4x2xAWG23/7)+(1x(2LI2Y0.15 mm <sup>2</sup> )DY)]Y	[(02YSCCH1.2L/4.8)+(S/FTP4x2xAWG23/1) +3LIY2.5 mm <sup>2</sup> ]Y
Jacket, diameter:	Total: PUR 19.6 mm Video: PUR 7.0 mm CAT.7: PUR 8.5 mm Audio: PVC 3.5 mm	Total: FR-PVC, 19.9 mm Video: PUR, 7.1 mm CAT.7: PVC, 8.0 mm
Inner conductors:	Video: 2 x (1 x 0.88 mm <sup>2</sup> $\triangleq$ $\varnothing$ 1.06 mm) (AWG18) CAT.7: 4 x 2 x 0.26 mm <sup>2</sup> (AWG23/7) Audio: 1 x 2 x 0.15 mm <sup>2</sup> (AWG26)	Video: 1 x 0.88 mm <sup>2</sup> $\triangleq$ $\varnothing$ 1.06 mm (AWG18) CAT.7: 4 x 2 x 0.57 mm (AWG23/1) Power: 3 x 2.5 mm <sup>2</sup>
Copper strands per conductor:	Video: 7 x 0.40 mm CAT.7: 7 x 0.22 mm Audio: 19 x 0.10 mm	Video: 7 x 0.40 mm CAT.7: 1 x 0.57 mm
Conductor insulation:	Video: Foam/Skin-PE 4.8 mm	Video: Foam/Skin-PE 4.8 mm
Shielding:	Video: 2 x Copper braiding tinned CAT.7: Copper br. tinned + AL/PT foil for each wire pair Audio: Copper spiral, tin-plated	Video: 2 x Copper braiding tinned CAT.7: Copper br. tinned + AL/PT foil for each wire pair
Shielding factor:	100 %	100 %
Temperature range:	-20 °C...+70 °C	-20 °C...+75 °C
Fire load per m:	1.52 kWh	1.87 kWh
Weight per 1 m:	353 g	475 g
Packaging:	per m	per m
Matching plug:	Video: BNC1.2/5.0-HD, NBNC75BWU13 CAT.7: RJ45C6XL, RJ45C6XLA, NE8MX6 Audio: HI-X3CM-V, HI-X3CF-V	Video: BNC1.2/5.0-HD, NBNC75BWU13 CAT.7: RJ45C6XL, RJ45C6XLA, NE8MX6

**ELECTRICAL DATA**

Surge impedance:	75 $\Omega$ (video) / 100 $\Omega$ (CAT.7) / 110 $\Omega$ (audio)	75 $\Omega$ (video) / 100 $\Omega$ (CAT.7)
Capac. cond./shield. per 1 m:	44 pF (audio)	
Capac. cond./shield. per 1 m:	53 pF (video)/80 pF (audio)	53 pF (video)
Attenuation per 100 m (20°) Video:	200 MHz: 9.4 dB	200 MHz: 9.4 dB
	470 MHz: 14.7 dB	470 MHz: 14.7 dB
	862 MHz: 20.4 dB	862 MHz: 20.4 dB
	1000 MHz: 21.9 dB	1000 MHz: 21.9 dB
	1485 MHz: 27.2 dB	1485 MHz: 27.2 dB
	1750 MHz: 29.9 dB	1750 MHz: 29.9 dB
	2150 MHz: 33.5 dB	2150 MHz: 33.5 dB
3000 MHz: 40.8 dB	3000 MHz: 40.8 dB	



x01668



x00094

**ORDER NO.**

**600-2811-01** NEW

**600-1031**

## VIDEO/AUDIO/POWER HYBRID CABLE

75 Ω + AUDIO [AES/EBU] (+ POWER)

## TRANSIT MC 120 HD/MC 123 HD/MC 2235 HD

MOBILE    STUDIO    INSTALL    ELA  
 ANALOG    DIGITAL    HD/UHD    OFC

## Triplets ...

one is for the image, one for the sound and one for power. An HD-SDI video signal is transmitted with 75 Ω via the image line, the sound line consists of a shielded microphone cable with a wire cross-section of 2 x 0.14 mm<sup>2</sup> / AWG26 and power is supplied by a 3 x 1.5 mm<sup>2</sup> / AWG15 mains lead.

The **TRANSIT MC 123 HD** is designed for permanent installation (studio, theater, building interior etc.). It is also suitable for mobile and outdoor applications. The **TRANSIT MC 2235 HD** offers another 5 control wires plus 1 audio and 1 video line and is HD capable. The **TRANSIT MC 120 HD** which contains one video and two audio lines is extremely cold-resistant (-40 °C/-40 °F with mobile and -50 °C/-58 °F with fixed installations) and thus perfectly suited for mobile applications, especially for cameras with stereo audio connections.

**NOW WITH AES/EBU AND DMX  
COMPLIANT AUDIO LINES!**

**FREE SAMPLE AVAILABLE!**  
Sectional drawing see website.

**APPLICATIONS:**

- Wiring surveillance monitors, cameras, editing consoles
- Installation (studio, theater, building technology, rack mount)
- Outdoor applications

**PRODUCT ADVANTAGES:**

- HD-SDI Video 75 Ω + audio (+ power)
- Very compact and flexible
- Easy to work with

BULK CABLE - VIDEO

**TECHNICAL DATA**

	<b>1 TRANSIT MC 120 HD</b>	<b>2 TRANSIT MC 123 HD</b>	<b>3 TRANSIT MC 2235 HD</b>
Construction:	[2LI2Y0.6(ST)CY+2(2LIY0.14 mm <sup>2</sup> )(ST)DY]Y	[2Y0.6 mm(ST)CY+ (2LIY0.14 mm <sup>2</sup> )DY+(3LIY1.5 mm <sup>2</sup> )Y]Y	[2Y0.8 mm(ST)CY+ 2(2LI2Y0.14 mm <sup>2</sup> )DY+3LI2Y1.5 mm <sup>2</sup> ]Y
Jacket, diameter/total:	TPE 10.0 mm	PVC 14.2 mm	S-PVC 15.5 mm
Jacket, diameter/video:	TPE 4.2 mm	PVC 4.2 mm	PVC 6.0 mm
Jacket, diameter/audio:	TPE 3.1 mm	PVC 4.2 mm	PVC 2.6 mm
Inner conductors/video:	1 x 0.6 mm (AWG23/1)	1 x 0.6 mm (AWG23/1)	2 x 0.8 mm (AWG20)
Inner conductors/audio:	2 x 2 x 0.14 mm <sup>2</sup> (AWG26)	2 x 2 x 0.14 mm <sup>2</sup> (AWG26)	2 x 2 x 0.14 mm <sup>2</sup> (AWG26)
Inner conductors/power:	-	3 x 1.5 mm <sup>2</sup>	3 x 1.5 mm <sup>2</sup>
Inner conductors/control:	-	-	5 x 0.34 mm <sup>2</sup> (AWG22)
Copper strands per cond./video:	Copper-solid wire	Copper-solid wire	Copper-solid wire
Copper strands per cond./audio:	18 x 0.10 mm	18 x 0.10 mm	18 x 0.10 mm
Conductor insulation/video:	Foam/skin-PE 2.8 mm	Foam/skin-PE 2.8 mm	Foam/skin-PE 3.7 mm
Shielding/Video:	Copper braiding, tin-plated + AL/PT-foil	Copper braiding, tin-plated + AL/PT-foil	Copper braiding, tin-plated + AL/PT-foil
Shielding/Audio:	Copper spiral, tin-plated	Copper spiral, tin-plated	Copper spiral, tin-plated
Shielding factor:	100% (Video)	100%	100%
Temperature range:	-50 °C...+85 °C	-25 °C...+70 °C	-20 °C...+70 °C
Fire load per m:	0.69 kWh	0.84 kWh	1.47 kWh
Weight per 1 m:	110 g	200 g	236 g
Packaging:	per m	per m	per m
Matching plug:	BNC0.6/2.8 HD, BNC0.6/2.8-T NBNC75BJJ9	BNC0.6/2.8 HD, BNC0.6/2.8-T NBNC75BJJ9	BNC0.8/3.7HD, BNC0.8/3.7-6G, NBNC75BLP9, 1-6052-2100-1

**ELECTRICAL DATA**

Surge impedance:	75 Ω (Video) / 110 Ω (Audio) ±1%	75 Ω (Video) / 110 Ω (Audio) ±1%	75 Ω (Video) / 110 Ω (Audio) ±1%
Capac. cond./cond. per 1 m:	50 pF (audio)	50 pF (audio)	78 pF (audio)
Capac. cond./shield. per 1 m:	67 pF (video) 95 pF (audio)	56 pF (video) 100 pF (audio)	59 pF (video) 130 pF (audio)
Attenuation per 100 m (20 °C):	50 MHz: 7.3 dB 200 MHz: 14.5 dB 470 MHz: 22.7 dB 862 MHz: 31.1 dB 1000 MHz: 33.6 dB 1485 MHz: 41.2 dB	50 MHz: 7.3 dB 200 MHz: 14.5 dB 470 MHz: 22.7 dB 862 MHz: 31.1 dB 1000 MHz: 33.6 dB 1485 MHz: 41.2 dB	50 MHz: 6.1 dB 200 MHz: 11.7 dB 470 MHz: 14.8 dB 862 MHz: 25.3 dB 1000 MHz: 30.1 dB 1485 MHz: 35.4 dB

**COLOR**

■ black



x00100

**TRANSIT 120 HD****ORDER NO.**600-0791 **NEW****TRANSIT 123 HD****ORDER NO.**605-0761 **NEW****TRANSIT 2235 HD****ORDER NO.**

600-2231

**VIDEO/POWER COMBO CABLE [HD/UHD]**

2 x 75 Ω LONG-DISTANCE (1.2/4.8 DZ) +  
3 x 1,5 mm<sup>2</sup> POWER

**TRANSIT MC 2030 UHD**

☒ MOBILE ☒ STUDIO ☒ INSTALL  
ANALOG DIGITAL OFC HD/UHD **PMB**  
PUR MASTER BLEND

*The HD broadcast cable ...*

with its double coax to handle HD video and its triple 15-gauge leads to handle power is, by repeated popular demand from our broadcast customers, now part of our standard product range.

The **TRANSIT 2030 HD** combines two of our double-shielded **VECTOR 1.2/4.8 DZ HIGHFLEX** video lines and one 3 x 1.5 mm<sup>2</sup> power line in a reelable, flexible PUR MasterBlend jacket in such a way that trouble-free HD signal transmission is ensured even under adverse conditions like heat, cold and stress, and even over distances of 100 m/330 feet and more.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

**APPLICATIONS:**

- Digital HD-SDI long-distance transmission including power supply
- Ideal for OB van use, sporting events and other large events
- Installation (broadcast, studio, conference rooms, building wiring)

**PRODUCT ADVANTAGES:**

- Power and HD-SDI-compliant video transmission in one cable
- Excellent shielding
- Low attenuation values for long-distance HD transmissions
- Compact in diameter
- Flexible and easy to reel

Ø mm  
**18.8**

Shielding  
**100%**

**TECHNICAL DATA**

Construction:	[2x(02YSCCH1.2L/4.8)+(3LIY1.5 mm <sup>2</sup> )]Y
Jacket, diameter:	Total: PMB, 18.8 mm Video: PVC, 7.1 mm / Power: PVC, 6.7 mm
Inner conductors:	Video: 1 x 0.88 mm <sup>2</sup> $\Delta$ Ø 1.06 mm (AWG18) Power: 3 x 1.5 mm <sup>2</sup>
Copper strands per conductor:	Video: 7 x 0.40 mm / Power: 30 x 0.25 mm
Conductor insulation:	Video: Foam/Skin-PE 4.8 mm
Shielding:	Video: 2 x Copper braiding tinned
Shielding factor:	100%
Temperature range:	-20 °C...+75 °C
Fire load per m:	1.87 kWh
Max. transmission length:*	130 m (SMPTE 425M, 3G), 85 m (SMPTE 2081, 6G), 55 m (SMPTE 2082, 12G)
Weight per 1 m:	490 g
Packaging:	per m
Matching plug:	Video: BNC1.2/5.0-HD, BNC1.2/5.0-6G, NBNC75BWU13

**ELECTRICAL DATA**

Surge impedance:	75 Ω (video)/100 Ω (CAT.7)	
Capac. cond./shield. per 1 m:	53 pF	
Attenuation per 100 m (20 °C) video:	200 MHz:	9.4 dB
	470 MHz:	14.7 dB
	862 MHz:	20.4 dB
	1000 MHz:	21.9 dB
	1485 MHz:	27.2 dB
	2150 MHz:	33.5 dB
	3000 MHz:	40.8 dB

**COLOR**  
■ black

**ORDER NO.**  
**600-2031**

**VIDEO/AUDIO/CONTROL CAMERA CABLE [HD/UHD]**

3 x 75 Ω LONG-DISTANCE (1.2L/5.0) +  
2 x 0.14 mm<sup>2</sup> AUDIO + 2 x 0.75 mm<sup>2</sup> CONTROL

**TRANSIT MC 3202 UHD**

☒ MOBILE ☒ STUDIO ☒ INSTALL  
ANALOG DIGITAL OFC HD/UHD



Sectional drawing

*The magic word Ultra HD ...*

is on almost everybody's lips. The Ultra High Definition formats UHD-1 with 4K (3840 x 2160p) and 8K (7680 x 4320p) are more and more replacing the Full HD standard (1080p). These much higher resolutions are also a challenge for broad-cast production devices such as cameras, monitors, editing consoles and their connection and transmission technology. Which induced us to develop, as an addition to our fiber-optic combo lines, the new compact UHD-SDI hybrid cable with **3 x 1.2/5.0 / AWG18 (UHD video), 2 x 2 x 0.14 mm<sup>2</sup> / AWG26 (AES-EBU/audio) and 2 x 0.75 mm<sup>2</sup> / AWG18 control.**

The **TRANSIT MC 3202 HD** is also available ready-to-fit in your desired length. For more information see the section "Ready-made Cables". For maximum transmission lengths – see our webshop. Fiber-optic camera combo cables can be found under Bulk Cable – Various.

**FREE SAMPLE AVAILABLE!****APPLICATIONS:**

- Hybrid cable for UHD cameras, UHD monitors etc.
- Digital UHD-SDI transmission incl. digital audio and power
- OB van use, sporting events and big live events
- Installation (broadcast, studio, conference rooms)

**PRODUCT ADVANTAGES:**

- Compact hybrid cable for 3 x UHD video (BNC), 2 x digital audio (XLR 3-pin) and camera power supply (e. g., XLR 4-pin)
- Low attenuation values for long distance transmissions
- 3-in-1 cable, flexible and easy to reel in tough conditions

Ø mm  
**20.9**

Shielding  
**100%**

**TECHNICAL DATA**

Construction:	3x1.2L/5.0+2x(2x0.14 mm <sup>2</sup> )+2x0.75 mm <sup>2</sup>
Jacket, diameter:	PVC (total) 20.9 mm PVC (video) 6.95 mm / PVC (audio) 2.6 mm PVC (control) 2.2 mm
Inner conductors:	video: 3 x 0.88 mm <sup>2</sup> $\Delta$ Ø 1.06 mm (AWG18) audio: 2 x 2 x 0.14 mm <sup>2</sup> (AWG26) control: 2 x 0.75 mm <sup>2</sup> (AWG18)
Copper strands per conductor:	video: 7 x 0.40 mm / audio: 18 x 0.10 mm control: 42 x 0.15 mm
Conductor insulation:	video: Foam/Skin-PE 4.8 mm
Shielding:	video: 2 x Copper braiding, tin-plated + AL/PT-foil audio: Copper spiral, tin-plated
Shielding factor:	100%
Temperature range:	-20 °C...+70 °C
Fire load per m:	1.95 kWh
Max. transmission length:*	146 m (SMPTE 425M, 3G), 100 m (SMPTE 2081, 6G), 70 m (SMPTE 2082, 12G)
Weight per 1 m:	450 g
Packaging:	per m
Matching plug:	video: BNC1.2/5.0-HD, BNC1.2/5.0-HD-6G, NBNC75BWU13

**ELECTRICAL DATA**

Surge impedance:	75 Ω ±1% (video)	
Capac. cond./shield. per 1 m:	52 pF (video)	
Velocity factor:	0.80	
Attenuation per 100 m (20 °C): (video)	50 MHz:	4.6 dB
	200 MHz:	9.4 dB
	470 MHz:	14.7 dB
	862 MHz:	20.4 dB
	1000 MHz:	21.9 dB
	1485 MHz:	27.2 dB
	1750 MHz:	29.9 dB
	2150 MHz:	33.5 dB
	3000 MHz:	40.8 dB

**COLOR**  
■ black

**ORDER NO.**  
**600-3202**



\* Data depends on transmitter and receiver. Detailed table at www.sommercable.com → Service → Techn. Info

– Price lookup via QR code or search number at shop.sommercable.com • Subject to change • The General Terms and conditions apply (see www.sommercable.com) –

## VIDEO/AUDIO/NETWORK 10 GBIT HYBRID CABLE [HD/UHD]

3 x 75 Ω LONG-DISTANCE (1.2/5.0) + (3 x 2.5 mm<sup>2</sup> POWER) + 1 x NETWORK (S/FTP) + 2 x 2 x 0.15 mm<sup>2</sup> AUDIO

## TRANSIT MC 3231 UHD / TRANSIT MC 3201 UHD

MOBILE 
  STUDIO 
  INSTALL

ANALOG 
  DIGITAL 
  OFC 
  HD/UHD

10 Gbit

*The all-round long-distance specialist ...*

masters the mixed disciplines of sound, picture and power all at the same time, with uniformly excellent performance even over long distances. Furthermore, via the integrated 10 Gbit network cable you can also transmit digital audio signals (Ethersound, etc.) at a high-performance level. To power your peripherals, we have added a 3 x 2.5 mm<sup>2</sup> / AWG13 power line. With this all-rounder you are in great shape to handle the latest transmission standards. Plus the **TRANSIT MC 3231** has two additional 2 x 0.15 mm<sup>2</sup> / AWG25 audio lines.

FREE SAMPLE AVAILABLE!

## APPLICATIONS:

- Digital HD-SDI long-distance transmission including digital audio network and power supply lines
- Ideal for broadcast van applications, sporting events and big events
- Installations (broadcast, studio, conference rooms, building wiring)

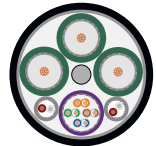
## PRODUCT ADVANTAGES:

- 10 Gbit capable network and HD-SDI compliant video transmission in one cable
- Excellent shielding
- Super low attenuation values over extended distances

Sectional drawing



1



2

BULK CABLE - VIDEO



Ø mm  
24.0

Shielding  
100 %

1

Ø mm  
20.5

Shielding  
100 %

2

## TECHNICAL DATA

Construction:	3 x 1.2/5.0 + (3 x 2.5 mm <sup>2</sup> Netz) + 1 x CAT + 2 x 2 x 0.15 mm <sup>2</sup>
Jacket, diameter:	<ul style="list-style-type: none"> <li>• total: Soft-PVC 24.0 mm (MC 3231) / Soft-PVC 20.5 mm (MC 3201)</li> <li>• video: PVC 6.95 mm</li> <li>• CAT: PVC 6.4 mm</li> <li>• audio: PVC 3.0 mm</li> <li>• power: PVC 10.2 mm (only TRANSIT MC 3231)</li> </ul>
Inner conductors:	<ul style="list-style-type: none"> <li>• video: 3 x 0.88 mm<sup>2</sup> <math>\underline{\Delta}</math> Ø 1.06 mm (AWG18)</li> <li>• CAT: 4 x 2 x 0.14 mm<sup>2</sup> (AWG26/7)</li> <li>• audio: 2 x 2 x 0.15 mm<sup>2</sup> (AWG25)</li> <li>• power: 3 x 2.5 mm<sup>2</sup> (AWG13) (nur TRANSIT MC 3231)</li> </ul>
Conductor insulation:	• video: Foam/Skin-PE 5.0 mm
Shielding:	<ul style="list-style-type: none"> <li>• video: Cu-Geflecht + AL/PT-foil</li> <li>• CAT: Cu-Geflecht + AL/PT foil for each wire pair</li> <li>• audio: Cu-Wendel</li> </ul>
Shielding factor:	100 %
Temperature range:	-20 °C...+75 °C
Fire load per m:	3.57 kWh
Weight per 1 m:	600 g / 580 g
Packaging:	per m
Matching plug:	BNC1.2/5.0HD, BNC1.2/5.0-6G, NBNC75BWU13, BNC1.2/5.0-T, 1-7090-2100-1

## ELECTRICAL DATA VIDEO

Surge impedance:	75 Ω (±3 Ω)
Capac. cond./shield. per 1 m:	52 pF
Shield. resistance per 1 km:	12 Ω
Velocity factor:	0.80
Attenuation per 100 m (20 °C):	50 MHz: 4.6 dB    200 MHz: 9.4 dB 470 MHz: 14.7 dB    862 MHz: 20.4 dB 1000 MHz: 21.9 dB    1485 MHz: 27.2 dB 1750 MHz: 29.9 dB    2150 MHz: 33.5 dB 3000 MHz: 40.8 dB

## ELECTRICAL DATA CAT

Cond. resistance per 1 km:	< 143 Ω
Capac. cond./cond. per 1 m:	43 pF
Insulation resist. per 1 km:	5 GΩ
Surge impedance:	100 Ω (±15 Ω)
Velocity factor:	0.77
Maximum delay:	480 ns @ 100 MHz/100 m
Max. delay (skew):	20 ns @ 100 MHz/100 m
Attenuation per 100 m (20 °C):	50 MHz: 16.9 dB 100 MHz: 21.2 dB 200 MHz: 29.5 dB 470 MHz: 50.5 dB 862 MHz: 77.0 dB 1000 MHz: 85.4 dB 1485 MHz: 109.6 dB 1750 MHz: 120.2 dB 2150 MHz: 131.8 dB 3000 MHz: 140.5 dB

## TYPE

- 1 TRANSIT MC 3231  
2 TRANSIT MC 3201 (w/o Power)

## COLOR

- black  
■ black

## ORDER NO.

- 600-2791  
600-2781 **NEW**



x00101



# BULK CABLE – DATA/AQUA/POWER

Simply good vibes.

322/1) by **SOMMER** CABLE Germany



## FOC/FIBER-OPTIC CABLES

FIBER-OPTIC CABLE MULTIMODE 50/125 µm AND 62.5/125 µm, SINGLE/MONOMODE 9/125 µm

### SC-OCTOPUS-G

MOBILE  STUDIO  INSTALL  
 DIGITAL  FRNC  HALOGEN-FREE  PUR  TERRA  AQUA

PMB  
PUR MASTER BLEND

40  
Gbit

### WARP 1 ...

or to be more precise, you will be able to reach the simple speed of light with our **SC-OCTOPUS-G** LWL cable. With it you can transmit your digital audio and video signals across large distances of up to 2 km/6500 ft. (at 100 Mbit/s). The multimode gradient fibers with a core diameter of 50 µm (insulation/cladding gauge 125 µm) are available in three quality grades for different bandwidths: OM2 ≥ 500 MHz, OM3 ≥ 1500 MHz (10 G max. 300 m), OM4 ≥ 3500 MHz (10 G max. 550 m/1800 ft.). OM3 and OM4 fiber meets the demands of modern LWL interfaces (laser coupling instead of LED) as required by high data rates > 6 Gbit/s and closely tolerated limit values for the differential mode delay (max. 100 ps). With OM3 running lengths of up to 300 m/984 ft. are possible using the 10 Gbit standard (550 m/1800 ft. with OM4).

The superfine single mode/mono mode fiber with 9 or 125 µm is ideal for greater running lengths, especially for permanent installation. Data rates of 50 Gbit/s can be transmitted here without the need for a repeater. The light coupling and fiber connection is more delicate than with the multimode fiber, which is why the multimode standard is more frequently used for mobile applications.

The **SC-OCTOPUS-G** is perfect for underground laying (PE version), the PUR version is reelable, flame-retardant according to IEC332-1 and ideally suited for mobile applications. For permanent indoor and outdoor installations we recommend the UV-resistant FRNC/LSZH version. The Breakout and Mini Breakout LWL lines can be used for indoor floor applications and rack cabling.

**The bending radius should always be at least 10 times the fiber diameter.**

The 4-fiber PUR version is also available with a **robust twin jack including special protective banding with water pressure compensation (50 m/160 ft. maximum water depth) and aramid fibers for optimum strain relief**. The jacket is dirt-repellant and cleans exceedingly well. Ideal for demanding off-road applications.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- High-quality, fast connection for the transmission of digital signals
- Powerful data network installation in complex buildings (e.g., from office buildings to airport facilities)
- Indoor and outdoor transmissions over long distances

#### PRODUCT ADVANTAGES:

- Digital signal transmission over long distances
- Compact, lightweight, robust and metal free
- Dielectric glass fiber reinforcement (rodent protection)
- Longitudinally watertight in compliance with IED 60794-1-F5 (PE and FRNC/LSZH version)
- 10 Gbit applications (OM3 and OM4)
- Reelable, hence suitable for indoor and outdoor use over long transmission distances (PUR-version)
- Very robust double outer jacket (PUR, 4-fiber)



x01415

		OM2	OM3	OM4	OS1	OS2
<b>Attenuation</b> [dB/km]	850 nm	≤ 2,5	≤ 2,5	≤ 2,5	–	–
	1300 nm	≤ 0,7	≤ 0,7	≤ 0,7	≤ 0,36	≤ 0,36
	1550 nm	–	–	–	≤ 0,25	≤ 0,25
<b>Bandwidth</b> [MHz/km]	850 nm	≥ 500	≥ 1500	≥ 3500	–	–
	1300 nm	≥ 500	≥ 500	≥ 500	–	–
<b>Transmission path</b> [m]	100Base-FX	2000	2000	2000	–	–
	1000Base-SX	550	900	1100	–	–
	1000Base-LX	550	550	550	2000	5000
	10GBase-SR	82	300	550	–	–
	10GBase-LR	–	–	–	2000	10000



**WARNING:** Avoid direct eye contact by all means – retinal hazard!

Glass fiber multimode 50/125 µm			Attenuation: 2.5 db/km @ 850 nm...0.75 dB/km @ 1310 nm				
Illustr.	Color, Jacket	Application / Standards	Ø	Grade	Fibers	Weight	ORDER NO.
1	<b>SC-OCTOPUS MARINEX</b> ★ black, PUR dual jacket incl. special protective banding with water pressure compensation (up to 50 m water depth) (A/I-V(ZN)11YQ11Y)	<b>Mobile / In-&amp;Outdoor</b> <span style="border: 1px solid blue; padding: 2px;">AQUA</span> • Temp.: -55 °C...+85 °C • Max. tensile force: 1.6 kN	8.5 mm	OM3	4	65 g/m	<b>590-0111-04-OM3</b>
2	★ black, PUR FRNC (A-V(ZN)11Y)	<b>Mobile / In-&amp;Outdoor</b> • Temp.: -40 °C...+85 °C • Max. tensile force: 1.6 kN	5.8 mm	OM3	4	27 g/m	<b>590-0311-04-OM3</b>
			5.8 mm	OM4	4	27 g/m	<b>590-0311-04-OM4</b> <span style="color: red; font-weight: bold;">NEW</span>
			7.0 mm	OM3	12	45 g/m	<b>590-0311-12-OM3</b>
			8.2 mm	OM4	12	39 g/m	<b>590-0311-12-OM4</b> <span style="color: red; font-weight: bold;">NEW</span>
3	■ black, PE (A-DQ(ZN)B2YMM)	<b>Underground laying / Outdoor</b> • With fiber bundle • Backbone • Longitudinal watertight according to IEC 60794-1-2 • UV-resistant • Max. tensile force: 1.6 kN • Temp.: -15 °C...+70 °C	7.0 mm	OM3	4	32 g/m	<b>590-0411-04-OM3</b>
			7.0 mm	OM4	4	51 g/m	<b>590-0411-04-OM4</b>
			7.2 mm	OM2	8	51 g/m	<b>590-0411-08</b>
			7.2 mm	OM3	8	51 g/m	<b>590-0411-08-OM3</b>
			7.2 mm	OM2	12	51 g/m	<b>590-0411-12</b>
			7.2 mm	OM3	12	51 g/m	<b>590-0411-12-OM3</b>
			7.6 mm	OM2	24	60 g/m	<b>590-0411-24</b>
			7.6 mm	OM3	24	60 g/m	<b>590-0411-24-OM3</b>
3	■ black, HDPE, with anti-rodent protection made of corrugated steel armor (A-DQ(ZN)2Y(SR)2Y)	<b>Ground installation/anti-rodent protection</b> • Temp. -40 °C...+70 °C	9,6 mm	OM3	4	95 g/m	<b>590-0401-04-OM3</b> <span style="color: red; font-weight: bold;">NEW</span>
3	■ black, FRNC/LSZH (U-DQ(ZN)BH2Y)	<b>Installation / In-&amp;Outdoor</b> • Backbone, Secondary/ Tertiary sector • Longitudinal watertight according to IEC 60794-1-2 • UV-resistant • FRNC IEC 60332-3, IEC 60754-2 • Max. tensile force: 1.6 kN • With 96 fibers: 3.0 kN • Temp.: -10 °C...+50 °C  *CPR classification Dca	7.0 mm	OM2	4	51 g/m	<b>590-0511-04</b>
			7.0 mm	OM3	4	51 g/m	<b>590-0511-04-OM3C*</b> <span style="color: red; font-weight: bold;">NEW</span>
			7.0 mm	OM4	4	51 g/m	<b>590-0511-04-OM4</b>
			7.0 mm	OM2	8	51 g/m	<b>590-0511-08</b>
			7.0 mm	OM3	8	51 g/m	<b>590-0511-08-OM3</b>
			7.0 mm	OM4	8	51 g/m	<b>590-0511-08-OM4</b>
			7.0 mm	OM2	12	51 g/m	<b>590-0511-12</b>
			7.0 mm	OM3	12	51 g/m	<b>590-0511-12-OM3</b>
			7.0 mm	OM4	12	51 g/m	<b>590-0511-12-OM4</b>
			7.6 mm	OM2	24	60 g/m	<b>590-0511-24</b>
			7.6 mm	OM3	24	60 g/m	<b>590-0511-24-OM3</b>
			7.6 mm	OM4	24	60 g/m	<b>590-0511-24-OM4</b>
			12.8 mm	OM2	96	130 g/m	<b>590-0511-96</b>
			12.8 mm	OM3	96	130 g/m	<b>590-0511-96-OM3</b>
4	OM3: ■ aqua, LSZH (I-V(ZN)HH)	<b>Breakout / Indoor / Patch</b> • Tertiary sector • FRNC IEC 60332-3, IEC 60754-2 • Max. tensile force: 0.4 kN • Temp.: -20 °C...+60 °C	5.8 mm	OM3	2	17 g/m	<b>590-0712-02-OM3</b>
			6.8 mm	OM3	4	38 g/m	<b>590-0712-04-OM3</b>
			9.1 mm	OM3	8	80 g/m	<b>590-0712-08-OM3</b>
			11.6 mm	OM3	12	134 g/m	<b>590-0712-12-OM3</b>
5	OM3: ■ aqua, LSZH (I-V(ZN)H)	<b>Mini-Breakout / Indoor</b> • FRNC IEC 60332-3, • Temp.: -20 °C...+60 °C	4.3 mm	OM3	4	18 g/m	<b>590-0812-04-OM3</b>
<b>Glass fiber singlemode (monomode) 9/125 µm</b>			Attenuation: 0.4 db/km @ 1310 nm				
Illustr.	Color, Jacket	Application / Standards	Ø	Grade	Fibers	Weight	ORDER NO.
2	★ black, PUR FRNC (A-V(ZN)11Y)	<b>Mobile / In-&amp;Outdoor</b> • Max. tensile force: 1.6 kN • Temp.: -50 °C...+85 °C	5.5 mm	OS2	4	26 g/m	<b>590-0321-04</b>
			7.4 mm	OS2	12	45 g/m	<b>590-0321-12</b>
3	■ black, PE (A/I-DY(ZN)BH2Y)	<b>Underground laying / Outdoor</b> • UV-resistant • Max. tensile force: 1.6 kN • Temp.: -15 °C...+70 °C	7.0 mm	OS2	4	51 g/m	<b>590-0421-04</b>
			7.0 mm	OS2	8	51 g/m	<b>590-0421-08</b>
			7.0 mm	OS2	12	51 g/m	<b>590-0421-12</b>
3	■ black, HDPE, with anti-rodent protection made of corrugated steel armor (A-DQ(ZN)2Y(SR)2Y)	<b>Ground installation/anti-rodent protection</b> • Temp. -40 °C...+70 °C	9,6 mm	OS2	4	95 g/m	<b>590-0441-04</b> <span style="color: red; font-weight: bold;">NEW</span>
3	■ black, FRNC/LSZH (U-DQ(ZN)BH2Y)	<b>Installation / In-&amp;Outdoor</b> • FRNC IEC 60332-3, • Max. tensile force: 1.6 kN • With 96 fibers: 3.0 kN • Temp.: -10 °C...+50 °C	7.0 mm	OS2	4	51 g/m	<b>590-0521-04</b>
			7.0 mm	OS2	12	51 g/m	<b>590-0521-12</b>
			7.6 mm	OS2	24	60 g/m	<b>590-0521-24</b>
			11.0 mm	OS2	48	85 g/m	<b>590-0521-48</b>
	■ yellow, LSZH (I-V(ZN)HH)	<b>Breakout / Indoor</b> • Max. tensile force: 0.4 kN • Temp.: -20 °C...+60 °C	3.9 x 6.8 mm	OS2	2	28 g/m	<b>590-0727-02</b>
			8.5 mm	OS2	4	62 g/m	<b>590-0727-04</b>
			12.1 mm	OS2	8	133 g/m	<b>590-0727-08</b>
			15.8 mm	OS2	12	240 g/m	<b>590-0727-12</b>

## FIBER-OPTIC HYBRID CABLE SMPTE

FIBER-OPTIC HYBRID CABLE 9/125 µm SINGLEMODE FOR BROADCAST & STUDIO CAMERAS

### SC-OCTOPUS-HYBRID 224 PUR/TPU BROADCAST CAMERA CABLE

MOBILE STUDIO INSTALL

DIGITAL FRNC HALOGEN-FREE PUR

#### Fiber goes to Hollywood ...

and thus paves the way for vast transmission lengths in digital broadcasting & studio camera technology. In addition to the two singlemode 9/125 µm fibers for image and sound, 2 control and 4 power wires are provided for camera control and power. A stainless steel rope has been integrated as strain relief. The reelable TPU cable is particularly suitable for mobile applications such as for use in OB vans. The bandwidth at 1km is 600 MHz at 1300 nm.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### For HD camera cables SMPTE 311 M

see the "Ready-made Cables" and "Multicore & Distribution Systems" sections.



#### APPLICATIONS:

- Connection of digital cameras in the broadcasting, studio and film industry
- Indoor and outdoor use with long transmission lengths
- Also suitable for permanent installation

#### PRODUCT ADVANTAGES:

- Transmission of image, sound, power and control via a single cable
- Built-in strain relief, highly rugged
- Suitable for 10 Gbit service – high-quality, fast and robust connection for the transmission of digital signals
- Reelable, hence suited for indoor and outdoor transmissions over long distances

Ø mm  
9.2

## FIBER-OPTIC HYBRID CABLE

HYBRID FIBER-OPTIC CABLE 4 x 50/125 µm MULTIMODE FOR BROADCAST & PROFESSIONAL EVENT TECHNOLOGY

### SC-OCTOPUS-HYBRID 443 PUR BROADCAST-CABLE

MOBILE STUDIO INSTALL

DIGITAL FRNC HALOGEN-FREE PUR

#### Universal Fiber Power ...

is at your command here with **4 x OM3** multimode, **3 x 2.5 mm<sup>2</sup>/AWG13** (16 A/240 VDC) and **2 x 2 x AWG24** for 4 x control or 2 x AES/EBU, and the entire bundle is securely protected all around, wrapped up in a dense aramid mesh and a cold-flexible PUR jacket. The core element has extra aramid fibers to provide strain relief. With its outer diameter of just 13.4 mm/0.528" the **OCTOPUS 443** is extremely compact and lightweight, so that we can offer 100 m/330 ft. lengths on the compact HT481 reel series. This hybrid cable is also available ready-made with HAN-ECO multi-pin connectors at both ends, or at one end with the other end fanning out to HI-FIBER4 + PowerCON + XLR connectors. You will find the overview of the different variants in the section on "Multicore & Power Distribution Systems". With the **OCTOPUS 443** you can organize your **cable technology** in a **future-oriented** and **ultra-compact lightweight design**.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- Connecting digital video, digital audio, and power in the broadcasting and professional event arenas
- Indoor and outdoor signal transmission (ENG/SNG) over long distances
- Also suitable for permanent installation

#### PRODUCT ADVANTAGES:

- Picture, sound, power and control signal transmission in one cable
- Integrated strain relief
- Suitable for 10 Gbit service – high-quality, fast, robust connection for digital signal transmission
- Reelable, therefore suitable for indoor and outdoor use over long transmission distances

Ø mm  
13.4

#### TECHNICAL DATA

Jacket, diameter:	PUR / TPU 9.2 mm (total)
	LSZH 1.9 mm (fiber)
	TPE 1.1 mm (control)
	TPE 1.5 mm (power)
	TPE 2.5 mm (stainless steel rope)
Inner conductors:	2 x 9/125 µm (fiber) yellow, blue
	4 x 0.5 mm <sup>2</sup> (power) (AWG20) black, white
	2 x 0.22 mm <sup>2</sup> (control) (AWG24) grey, red
Shielding:	Copper braiding tin-plated, 90% shielding, Aramid mesh
Max. strain relief:	700 N
Temperature range:	-40 °C...+70 °C
Weight per 1 m:	140 g
Packaging:	per m
Matching plug:	HI-FIBER4-MC, SMPTE 304 M (FUW/PUW)

#### ELECTRICAL DATA

Attenuation loss per 1 km:	per 1310 nm: < 0.4 dB
	per 1550 nm: < 0.3 dB (λ = 1.3 µm)

#### TECHNICAL DATA

Jacket, diameter:	PUR, 13.4 mm (total)
	LSZH 2.0 mm (fiber)
	PUR 4.2 mm (audio/control)
	XLPE 3.6 mm (power)
Inner conductors:	4 x 50/125 µm (OM3-Fiber) blue, orange, green, brown
	2 x 2 x 0.22 mm <sup>2</sup> SFTP (audio/control) (AWG24) red, black
	3 x 2.5 mm <sup>2</sup> (power) (AWG13) blue, brown, yellow-green
Max. strain relief:	Max. tensile strength: 600 N
Temperature range:	-40 °C...+75 °C
Weight per 1 m:	190 g
Packaging:	per m
Matching plug:	HI-FIBER4MC, PowerCON, HAN-ECO

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	70 pF (audio/control)
Attenuation loss per 1 km:	per 1300 nm: ≤ 1.0 dB
Band width per 1 km:	per 1300 nm: ≥ 500 MHz
Operation/Nominal voltage (power):	300 / 600 V

#### COLOR

- black, PUR
- black, TPU

#### ORDER NO.

591-2241 **NEW**  
591-2241TPU **NEW**



#### COLOR

- black, PUR

#### ORDER NO.

591-4431







## CAT.5 PUR CABLE

PATCH, OUTDOOR, SF/UTP

### SC-MERCATOR CAT.5 PUR

⊗ MOBILE ⊗ STUDIO ⊗ INSTALL

DIGITAL FRNC HALOGEN-FREE PUR OFC



### Road-worthy Ethernet for the rugged outdoors ...

The **SC-MERCATOR CAT.5 PUR** is the perfect cable for mobile and movable outdoor applications. On the cable reel, in the OB van, on cable slides and even in cable carriers it will stand out with its high bending cycles and great durability.

The halogen-free and flame-retardant PUR jacket (according to IEC60332.1) makes it ruggedly abrasion-proof and cold-resistant. A silicone-like sheath around the stranded wire pairs guarantees lasting transmission quality and optimal crush-resistance.

Of course, the cable is RJ45-compatible. Its smallest bending radius is 40 mm/1.6" and according to the editorial staff at "Ethersound", the maximum transmission length is 67 m/220 ft.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Connection of computers and media equipment
- For mobile OB van use and outdoor applications

#### PRODUCT ADVANTAGES:

- Safe data transfer due to the short twist pitch and high-quality insulation
- Great durability due to a special, extremely sturdy jacket compound
- Resistant to outdoor temperatures
- Easy to reel

Ø mm  
**6.2**

Shielding  
**100%**

#### TECHNICAL DATA

Construction:	SFTP4x2x0.15 mm <sup>2</sup>
Jacket, diameter:	PUR-FRNC 6.2 mm
AWG:	AWG26
Copper strands per conductor:	19 x 0.10 mm
Conductor insulation:	Foam/skin-PE
Shielding:	AL/PT-foil + copper braiding 90% tin-plated
Shielding factor:	100%
Temperature range:	-15°C...+70°C
Fire load per m:	0.11 kWh
Weight per 1 m:	53 g
Packaging:	100/500 m spool
Matching plug:	RJ45C5E

#### ELECTRICAL DATA

Capac. cond./cond.:	48 pF
Max. section length:	65 m
Insulat. resistance per 1 km:	> 5 GΩ
Surge impedance:	100 Ω (±15 Ω)
Velocity factor:	0.73
Maximum delay per 100 m:	480 ns @ 100 MHz
Loop resistance per km:	max. 142.0 Ω
Attenuation per 100 m (20°C):	10 MHz: 9.5 dB 16 MHz: 12.1 dB 100 MHz: 32.0 dB

**COLOR**

★ black, PUR, CAT.5

**ORDER NO.**

**581-0051**



x00112



## CAT.5e CABLE

TWISTED PAIR F/UTP

### SC-MERCATOR CAT.5e

⊗ MOBILE ⊗ STUDIO ⊗ INSTALL

DIGITAL OFC



Sectional drawing 1

### It's better to be on the safe side ...

since other manufacturers are under tremendous pressure to produce their computer cables in the greatest quantities at the lowest cost, their quality often falls by the wayside. This false economy takes its toll in the form of poor signal transmission and expensive, time-robbing fault tracing. We, on the other hand, supply a high-quality version with a short twist pitch and an excellent insulation, the perfect installation line for the transmission of high Class D bitrates in compliance with the ISO/IEC 11801, EN 50173 specification (FAST ETHERNET, ATM155 Protocols). Also available as flexible AWG26 patch cable with PVC jacket. The installation version of this cable (AWG24) is intended for direct connection to punch-down blocks on patch-panel and wall-port jacks, and is not suitable for terminating with standard RJ45 plugs.

**FREE SAMPLE AVAILABLE!**

#### APPLICATIONS:

- Connection of computers and media equipment

#### PRODUCT ADVANTAGES:

- Short twist pitch and high-quality insulation
- High life expectancy due to special jacket compound

Shielding  
**100%**

#### TECHNICAL DATA

	PATCH	1 INSTALL
Construction:	LI2Y(ST) 4x2x0.14 mm <sup>2</sup> / 300 MHz	J02Y(ST)CY 4x2x0.51 mm / 300 MHz
Jacket, diameter:	PVC 5.7 mm	PVC 6.1 mm
AWG:	AWG26/7	AWG24/1
Copper strands per conductor:	7 x 0.16 mm	1 x 0.51 mm
Conductor insulation:	Foam/skin-PE 0.93 mm	Foam/skin-PE 1.02 mm
Shielding:	AL/PT-foil + filler strand	AL/PT-foil + filler strand
Shielding factor:	100 %	100 %
Temperature range:	-20 °C...+75 °C	-20°C...+75 °C
Fire load per m:	0.15 kWh	0.19 kWh
Weight per 1 m:	34 g	40 g
Packaging:	100/500 m spool	100/500 m spool
Matching plug:	RJ45C5E-SW	RJ45C6XL, RJ45C6XL-A, NE8MX6

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	49 pF	49 pF
Insulat. resistance:	> 2 GΩ	> 5 GΩ
Surge impedance:	100 Ω (±15 Ω)	100 Ω (±15 Ω)
Loop resistance per 1 km:	170 Ω	260 Ω
Maximum delay per 100 m:	500 ns @ 100 MHz	500 ns @ 100 MHz
Max. delay (skew):	20 ns @ 100 MHz	20 ns @ 100 MHz
Max. section length:	50 m	100 m
Attenuation per 100 m (20°C):	100 MHz: 29.9 dB 155 MHz: 37.4 dB 300 MHz: 44.6 dB	100 MHz: 18.8 dB 155 MHz: 25.0 dB 300 MHz: 32.0 dB

**COLOR**

■ grey

■ grey

**JACKET/TYPE**

PVC, CAT.5e INSTALL

PVC, CAT.5e PATCH

**ORDER NO.**

-

**580-0106**

**ORDER NO.**

**580-0056**

-



x00113



Ø mm

7.9

Ø mm

8.7

Shielding  
100 %Shielding  
100 %mm<sup>2</sup>  
4x2x0.22mm<sup>2</sup>  
4x2x0.22

## CAT.6a PATCH CABLE

TWISTED PAIR, S/FTP, SIMPLE/DOUBLE JACKET

### SC-MERCATOR CAT.6a PROFLEX

MOBILE 
  STUDIO 
  INSTALL  
 DIGITAL 
  OFC



Sectional drawing

### In the versatile onion look ...

appears the double jacket variant of our **SC-MERCATOR CAT.6a** patch cable, also available with only a single jacket. The double jacket version has a very pleasant and cold-flexible soft-PVC outer jacket which is extruded in two operational steps. The first jacket is applied like a tube to keep the wire pairs in position even when they're moved, whereas the inner jacket serves as a resilient force to preserve the flexibility or also as an additional protection against abrasion, pressure or kinks. It should be noted that this construction is a compromise between restive standard cables and heavy-duty cables which have a rather robust and rigid PUR jacket. With high pressure and strong tensile forces a PUR version is recommended. Users who find traditional CAT cables too stiff can fall back on this PROFLEX series and its high-quality mat finish. The special construction combines high flexibility with very good reeling properties and only little memory effect without annoying loops and trip hazards. The series meets the requirements of the latest digital audio formats like e.g. CobraNet™, EtherSound™, RockNet™, DMX over Ethernet or Dante™.

#### FREE SAMPLE AVAILABLE!

#### APPLICATIONS:

- CAT.6a cable for maximum bandwidth
- Analog/digital quadruple audio cable

#### PRODUCT ADVANTAGES:

- Reliable shielding
- Flexible and easy to reel
- Robust double jacket construction (580-1331)

#### TECHNICAL DATA

Construction:	S/FTP 4x2x0.22 mm <sup>2</sup>
Jacket, diameter:	Single jacket: PVC 7.9 mm Double jacket: inner jacket PVC 7.2 mm, outer jacket PVC 8.7 mm
AWG:	AWG24/7
Copper strands per conductor:	7 x 0.20 mm
Conductor insulation:	Foam/Skin-PE 1.4 mm
Shielding:	AL/PT foil per wire pair + tinned overall screen
Shielding factor:	100 %
Temperature range:	-30 °C... +60 °C
Fire load per m:	Single jacket: 0.17 kWh Double jacket: 0.25 kWh
Weight per 1 m:	Single jacket 69 g, Double jacket 83 g
Packaging:	100/500 m spool
Matching plug:	RJ45C6XL, NE8MX6

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	56 pF
Insulat. resistance:	5 GΩ
Surge impedance:	100 Ω ±5 %
Loop resistance per 1 km:	110 Ω
Maximum delay per 100 m:	534 ns @ 100 MHz
Max. delay (skew):	25 ns @ 100 MHz
Max. section length:	80 m
Attenuation per 100 m (20°C):	1 MHz: 2.5 dB 16 MHz: 9.0 dB 100 MHz: 23.0 dB 155 MHz: 27.9 dB 300 MHz: 41.1 dB

#### COLOR

- black
- black

#### JACKET/TYPE

- PVC Single jacket CAT.6a S/FTP
- PVC Double jacket CAT.6a S/FTP

#### ORDER NO.

- 580-1301 **NEW**
- 580-1331 **NEW**



x01707

**CAT.6a PATCH CABLE**

TWISTED PAIR, S/FTP, HIGHLY FLEXIBLE

**SC-MERCATOR  
CAT.6a HIGHFLEX**

MOBILE STUDIO INSTALL  
DIGITAL OFC

10  
Gbit

Sectional drawing

*Even the curviest banana will be amazed ...*

when our **SC-MERCATOR CAT.6a HIGHFLEX** patch cable with an outer diameter of only 6 mm and an extremely small bending radius of <20 mm can wind its way through narrow patch panels, data cabinets and touring racks. And this in spite of a sturdy, robust PVC jacket and an S/FTP construction with a mesh screen plus AL/PT foil screen around the 4x2xAWG26/7 wire pairs. The overall design is guaranteed to meet the CAT.6a performance up to 500 MHz.

**FREE SAMPLE AVAILABLE!****APPLICATIONS:**

- 10 Gbit patch cable

**PRODUCT ADVANTAGES:**

- Small bending radius
- Highly flexible

Ø mm  
**6.2**Shielding  
**100 %**mm<sup>2</sup>  
**4x2x0.14****TECHNICAL DATA**

Construction:	112Y4x2x0.14 mm <sup>2</sup>
Jacket, diameter:	PVC 6.2 mm
AWG:	AWG26/7
Copper strands per conductor:	7 x 0.16 mm
Conductor insulation:	Foam/Skin-PE 0.96 mm
Shielding:	AL/PT foil per wire pair + overall mesh screen
Shielding factor:	100 %
Temperature range:	-15 °C...+60 °C
Weight per 1 m:	33 g
Packaging:	100 m
Matching plug:	RJ45C6A

**ELECTRICAL DATA**

Capac. cond./cond. per 1 m:	116 pF
Insulation resist. per 1 km:	500 MΩ
Surge impedance:	100 Ω (±15 Ω)
Velocity factor:	0.77
Maximum delay per 100 m:	545 ns @ 100 MHz
Max. delay (skew):	45 ns @100 MHz (per 100 m)
Attenuation per 100 m (20°C):	1 MHz: 2.5 dB 16 MHz: 7.1 dB 100 MHz: 14.5 dB 250 MHz: 22.4 dB 500 MHz: 33.2 dB

**COLOR**  
■ black

**ORDER NO.**  
**580-0401 NEW**



x00114

**CAT.6a CABLE**

TWISTED PAIR, F/UTP

**SC-MERCATOR CAT.6a**

STUDIO INSTALL  
DIGITAL FRNC HALOGEN-FREE OFC CPR

10  
Gbit

Sectional drawing

*Better safe than sorry ...*

We supply a high-quality 4-twisted-pair CAT cable version with a short twist pitch and a durable FRNC jacket. The CAT.6a distinguishes itself from the CAT.5e cable by a higher transmission frequency of 500 MHz (EN 50173-1, EN 50288-5-1, IEC 61156-5, ISO/IEC 11801-2ed, TIA/EIA 568-B.2-10 Draft 5.0) which is achieved by specially insulating the opposing wire pairs.

The **SC-MERCATOR CAT.6a** has been designed for 10 Gbit (10GBASE-T) and is downward compatible with all existing network protocols (10/100/1000 Mbit). Thus the **SC-MERCATOR CAT.6a** can also be used for CAT.5 (100 MHz), CAT.5e (250 MHz) and CAT.6 (350 MHz) transmissions.

For mobile CAT.6 and CAT.6a applications we recommend our **SC-MERCATOR CAT.7 PUR**, described in the next few pages.

**FREE SAMPLE AVAILABLE!****APPLICATIONS:**

- Connection of computers and media equipment in the 10/100/1000 Mbit and 10 Gbit network standard

**PRODUCT ADVANTAGES:**

- Short twist pitch and high-quality insulation
- Great durability due to special LSZH jacket

Ø mm  
**7.1**Shielding  
**100 %**Wire  
**4x2x0.57****TECHNICAL DATA**

Construction:	FTP LSZH 4x2x0.57 mm
Jacket, diameter:	FRNC 7.1 mm
AWG:	AWG23/1
Copper strands per conductor:	1 x 0.57 mm
Conductor insulation:	Foam/skin-PE
Shielding:	AL/PT-foil + filler strand
Shielding factor:	100 %
Temperature range:	-20 °C...+75 °C
Fire load per m:	0.15 kWh
Weight per 1 m:	59 g
Packaging:	100/500 m spool
Matching plug:	RJ45C6XL, RJ45C6XL-A, NE8MX6

**ELECTRICAL DATA**

Capac. cond./cond. per 1 m:	47 pF
Max. section length:	100 m
Surge impedance:	100 Ω (±15 Ω)
Loop resistance per km:	max. 150 Ω
Velocity factor:	0.75
Maximum delay per ft.:	470 ns @100 MHz/100 m
Max. delay (skew):	25 ns @100 MHz/100 m
Attenuation per 100 m (20°C):	1 MHz: 1.7 dB 16 MHz: 6.9 dB 100 MHz: 18.2 dB 155 MHz: 22.9 dB 250 MHz: 32.3 dB 500 MHz: 39.8 dB

**COLOR**

★orange, FRNC-Eca,  
CAT.6 (AWG23) Install

**ORDER NO.**

**580-0465FC NEW**



x00115

BULK CABLE - VARIOUS



Ø mm	6.5	8.5	8.0
Shielding	100%	100%	80%
mm <sup>2</sup>	4x2x0.14	4x2x0.26	Ø Wire 4x2x0.57

## CAT.6 & CAT.7 PUR CABLE

TWISTED PAIR, S/FTP

### SC-MERCATOR CAT.7 PUR, SC-MERCATOR CAT.7 PUR XL, SC-MERCATOR CAT.6 PUR SUPERFLEX

- MOBILE
- STUDIO
- INSTALL
- DIGITAL
- FRNC
- HALOGEN-FREE
- PUR
- OFC



Sectional drawing

### CAT agility and mobility ...

The **MERCATOR CAT.7 PUR** is the perfect choice for mobile outdoor transmissions of digital audio or network signals, e.g. on the OB van. Its halogen-free, flame-retardant PUR jacket (pursuant to IEC60332.1) is extremely notch-resistant and crush-proof, cold-flexible and easy to reel. The wires are foam-skin PE-insulated and shielded pairwise by AL-PT foils (PimF). The overall screen is made of a Cu mesh with fleece. This guarantees optimum transmission properties.

The very robust **MERCATOR CAT.7 PUR XL** with its large wire cross-section (AWG23) is suitable for long-distance EtherSound signal transmissions of up to 125 m (410 ft.).

The high-performance **MERCATOR CAT.6 SUPERFLEX** variant has a clever double jacket construction made of a notch-resistant, crush-proof and cold-flexible PUR outer jacket in combination with a highly flexible S-PVC inner jacket and a tinned Cu mesh in between. This construction makes the cable extremely flexible and very easy to reel. Ideal for the daily use "on the road".

For AoIP transmission distances >75 m (246 ft.) we recommend our multimode and singlemode fiber systems with the HI-FIBER4, FIBERLENS and OpticalCON connectors.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- PUR version for mobile OB van use and outdoor applications
- Can handle a variety of signal transmissions from CAT.5e to CAT.6, CAT.6a and CAT.7
- For digital audio and video protocols

#### PRODUCT ADVANTAGES:

- Safe data transfer due to high-quality shielding and insulation
- Special jacket compound provides extreme ruggedness for excellent durability
- Handles outdoor temperature fluctuations well

#### TECHNICAL DATA

	1 CAT.7 PUR 600 MHZ	2 CAT.7 PUR XL 800 MHZ	3 CAT.6 SUPERFLEX
Construction:	SFTP 4x2x0.14 mm <sup>2</sup>	SFTP 4x2x0.26 mm <sup>2</sup>	S/UTP 4x2x0.57 mm
Jacket, diameter:	PUR 6.5 mm	PUR 8.5 mm	Outer jacket: PUR, 8.0 mm Inner jacket: PVC, 6.2 mm
AWG:	AWG26/7	AWG23/7	AWG23/1
Copper strands per conductor:	7 x 0.16 mm	7 x 0.22 mm	1 x 0.57 mm
Conductor insulation:	Foam/skin-PE	Foam/skin-PE	Foam/Skin-PE
Shielding:	Copper braiding tin-plated (total)	Copper braiding tin-plated (total)	Copper braiding tin-plated (total)
Shielding factor:	100 %	100 %	80 %
Temperature range:	-20 °C...+60 °C	-20 °C...+60 °C	-40 °C...+80 °C
Fire load per m:	0.19 kWh	0.23 kWh	0.24 kWh
Weight per 1 m:	40 g	80 g	78 g
Packaging:	100/500 m spool	100/500 m spool	100/500 m spool
Matching plug:	RJ45, all standards	RJ45C6XL, RJ45C6XL-A, NE8MX	RJ45C6XL, RJ45C6XL-A, NE8MX (-B) -T

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF	44 pF	76 pF
Insulat. resistance per 1 km:	> 2 GΩ	5 GΩ	>2 GΩ
Max. section length:	TCP/IP: 90 m	TCP/IP: 150 m	TCP/IP: 130 m
	Ethersound: 80 m	Ethersound: 125 m	Ethersound: 110 m
	MADI: 70 m	MADI: 125 m	MADI: 100 m
Surge impedance:	100 Ω (±5 Ω)	100 Ω (±5 Ω)	100 Ω (±5 Ω)
Loop resistance per km:	max. 290 Ω	max. 290 Ω	max. 290 Ω
Velocity factor:	0.75	0.75	0.75
Maximum delay per 100 m:	450 ns @ 100 MHz	470 ns @ 100 MHz	460 ns @100 MHz
Max. delay (skew):	10 ns @ 100 MHz/100 m	15 ns @ 100 MHz/100 m	14 ns @100 MHz/100 m
Attenuation per 100 m (20°C):	16 MHz: 10.5 dB	16 MHz: 7.2 dB	16 MHz: 6.9 dB
	100 MHz: 25.9 dB	100 MHz: 19.0 dB	100 MHz: 18.4 dB
	200 MHz: 37.5 dB	200 MHz: 27.5 dB	200 MHz: 27.1 dB
	350 MHz: 51.0 dB	350 MHz: 36.5 dB	350 MHz: 38.0 dB
	600 MHz: 66.5 dB	600 MHz: 49.3 dB	600 MHz: -
	1000 MHz: 88.5 dB	1000 MHz: 69.2 dB	1000 MHz: -

#### COLOR

★ black	ORDER NO. 581-0071
★ grey	581-0076
★ violet	581-0078

#### ORDER NO.

581-0251
-
-

#### ORDER NO.

580-0201
-
-



x00117





## CAT.7/CAT.7a CABLE

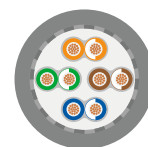
TWISTED PAIR, S/FTP

### SC-MERCATOR CAT.7/CAT.7a

✗ STUDIO ✗ INSTALL

DIGITAL FRNC HALOGEN-FREE OFC CPR

10 Gbit



Sectional drawing

### Better to be safe than sorry ...

since other manufacturers are under tremendous pressure to produce their computer cables in the greatest quantities at the lowest cost, their quality often falls by the wayside. This false economy results in poor signal transmission and expensive, time-robbing fault tracing. We at **SOMMER Cable** go a different route by supplying a high-quality version with a short twist pitch and a durable FRNC jacket, the perfect installation line for the transmission of high Class F bitrates in compliance with the given specification (FAST ETHERNET, ATM155 Protocols, EN 50173 1ed, EN 50173 2ed, EN 50288-1, EN 50288-5-1, IEC 61156-5, ISO/IEC 11801 2ed). It is downward compatible with all existing network protocols CAT.5, CAT.6 und CAT.6a

The installation cable is also available as a duplex line with an additional braided screen.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

#### APPLICATIONS:

- Connection of computers and media equipment

#### PRODUCT ADVANTAGES:

- Short twist pitch and high-quality insulation
- Great durability due to special jacket compound
- Length printed on cable

#### TECHNICAL DATA

	PATCH 600 MHZ	INSTALL 1000 MHZ	INSTALL CAT.7A 1500 MHZ
Construction:	J02YSCH 4x2x0.14 mm <sup>2</sup>	J02YSCH 4x2x0.57 mm	J02YSCH 4x2x0.64 mm
Jacket, diameter:	FRNC, 6.5 mm	FRNC, 7.6 mm	FRNC 8.4 mm
Jacket, diameter (Duplex):	–	FRNC, 2 x 8.5 mm	–
AWG:	AWG26/7	AWG23/1	AWG22/1
Copper strands per conductor:	7 x 0.16 mm	1 x 0.57 mm	1 x 0.64 mm
Conductor insulation:	Foam/Skin-PE	Skin/Foam/Skin-PE	Skin/Foam/Skin-PE
Shielding:	AL/PT-foil + Copper braiding	AL/PT-foil + Copper braiding	AL/PT-foil + Copper braiding
Shielding factor:	100 %	100 %	100 %
Temperature range:	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+60 °C
Fire load per m:	0.15 kWh	0.17 kWh	0.19 kWh
Fire load per m (Duplex):	–	0.21 kWh	–
Weight per 1 m:	34 g	64 g/140 g (Duplex)	73 g
Packaging:	100/500 m spool	100/500 m spool	100/500 m spool
Matching plug:	RJ45, all standards	RJ45C6XL	RJ45C6XL

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	43 pF	43 pF	45 pF
Max. section length:	70 m	150 m	190 m
Surge impedance:	100 Ω (±15 Ω)	100 Ω (±15 Ω)	100 Ω (±15 Ω)
Loop resistance per km:	max. 290 Ω	max. 145 Ω	max. 115 Ω
Maximum delay per 100 m:	480 ns @ 100 MHz	450 ns @ 100 MHz	450 ns @ 100 MHz
Max. delay (skew):	20 ns @ 100 MHz	15 ns @ 100 MHz	15 ns @ 100 MHz
Attenuation per 100 m (20°C):	16 MHz: 10.1 dB 100 MHz: 26.2 dB 155 MHz: 33.2 dB 300 MHz: 47.7 dB 600 MHz: 70.8 dB – –	16 MHz: 6.5 dB 100 MHz: 16.9 dB 155 MHz: 21.2 dB 300 MHz: 29.9 dB 600 MHz: 43.3 dB 1000 MHz: 57.9 dB –	16 MHz: 6.3 dB 100 MHz: 16.2 dB 155 MHz: 21.2 dB 300 MHz: 28.5 dB 600 MHz: 40.7 dB 1000 MHz: 55.0 dB 1500 MHz: 64.5 dB

#### COLOR/JACKET/TYPE

★ grey FRNC, CAT.7 (AWG26) S/FTP

★ orange FRNC/**Dca**, CAT.7 (AWG23) S/FTP

★ orange FRNC/**Dca**, 2xCAT.7 (AWG23) S/FTP

★ yellow FRNC/**Dca**, CAT.7a (AWG22) S/FTP

#### ORDER NO.

580-0306F

–

–

–

#### ORDER NO.

–

580-0255FC **NEW**

580-0295FC **NEW**

–

#### ORDER NO.

–

–

–

580-0417FC **NEW**



x00116



## CAT.8.1 INSTALLATION CABLE

TWISTED PAIR, S/FTP, B2ca

### SC-MERCATOR CAT.8.1 B2ca

✕ INSTALL

DIGITAL HALOGEN-FREE OFC CPR

40 Gbit



Sectional drawing

### At full speed through the networks ...

is how the data are transferred via our CAT.8.1. Compared to the previous CAT.7 models, it supports twice the maximum transmission frequency of 2000 MHz plus a maximum data rate of 40 Gbit/s and is thus suitable for creating high-speed Ethernet networks in building cabling, especially for the connection between routers and switches. It has a halogen-free LSZH jacket with an overall diameter of 8.2 mm, an AWG22/1 cross-section (0.62 mm) and impresses with great performance reserves and an outstanding quality, not least to comply with the IEC 60332-1-2, IEC 60754-1/2 and IEC 61034-1/2 standards as well as the high B2ca fire protection class. A high-quality double screen of individually shielded wire pairs (PimF) with an overall mesh of tinned copper ensures an optimum loss-free signal transfer. Power over Ethernet (PoE/PoE+/POE++) applications are just as possible as the transmission of digital and analog signals, video, data, speech, and VoIP (Voice over IP). The cable meets all requirements pursuant to application class 1 which allows for a maximum transmission distance of 30 m and is downward compatible to the CAT.7a, CAT.7, CAT.6a, CAT.6, CAT.5e and CAT.5 categories.

#### APPLICATIONS:

- 40 Gbit installation cable

#### PRODUCT ADVANTAGES:

- Fire protection class B2ca
- Transmission frequency of 2000 MHz
- Power over Ethernet
- Downward compatible with the CAT.7a, CAT.7, CAT.6a, CAT.6, CAT.5e, and CAT.5 categories

Ø mm  
**8,2**

Shielding  
**100 %**

mm<sup>2</sup>  
**4x2x0,62**

#### TECHNICAL DATA

Construction:	S/FTP 4x2x0.62 mm
Jacket, diameter:	LSZH, 8.2 mm
AWG:	AWG22/1
Copper strands per conductor:	1 x 0.62 mm
Conductor insulation:	1.52 mm
Shielding:	AL/PT foil per wire pair + total copper braid, tin-plated
Shielding factor:	100 %
Temperature range:	-20 °C ... +60 °C
Fire load per m:	0.2 kWh
Weight per 1 m:	67 g
Packaging:	100 spool

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	41 pF
Insulat. resistance per 1 km:	2 GΩ
Surge impedance:	100 Ω (+/-5Ω)
Velocity factor:	0.79
Maximum delay:	450 ns @100 MHz/100 m
Max. delay (Skew):	5 ns @100 MHz/100 m
Attenuation per 100 m (20 °C):	100 MHz: 17.5 dB
	250 MHz: 28.5 dB
	500 MHz: 41.8 dB
	862 MHz: 56.9 dB
	1000 MHz: 62.0 dB
	1500 MHz: 67.5 dB

**COLOR/TYPE**  
■ blue, Install, **B2ca**

**ORDER NO.**  
**580-0802FC** **NEW**



☎ x01715



## CAT.7 MULTICORE NETWORK CABLE

TWISTED PAIR, S/FTP

### SC-MERCATOR 2/4 X CAT.7

✕ STAGE ✕ STUDIO ✕ INSTALL

DIGITAL OFC

10 Gbit



Sectional drawing

### Cable monoculture ...

is what we did with the **SC-MERCATOR 2/4 x CAT.7**. Here we have packed two or even four CAT.7 lines into one highly flexible, robust Strong-PVC jacket. Each of the network lines is shielded against external interference by its own braided copper mesh, and each wire pair (PimF) is wrapped in its own foil screen.

With the **SC-MERCATOR 2/4 x CAT.7**, which is 10 Gbit-capable, up to 4 high-speed Ethernet (or compatible) signals can be transmitted simultaneously.

#### FREE SAMPLE AVAILABLE!

2 x CAT.7  
Order No.: 580-0311-02



#### APPLICATIONS:

- Linking of sound and light controllers via separate networks
- For quick and efficient cabling, e.g. of LED video wall systems
- Can be used in all CAT.5e, CAT.6, CAT.6a and CAT.7 systems

#### PRODUCT ADVANTAGES:

- Two or four high-speed lines in one robust jacket
- Full CAT.6a functionality / 10 Gbit
- Redundant transmission capability

#### TECHNICAL DATA

Construction:	2/4 x S/FTP 4x2x0.51 mm
Jacket, diameter:	PVC, 2 x CAT.7: 17.8 mm
	PVC, 4 x CAT.7: 20.8 mm
AWG:	AWG24/1
Conductor insulation:	Foam/Skin-PE 1.32 mm
Shielding:	AL/PT-foil + Copper braiding tin-plated
Shielding factor:	100 %
Temperature range:	-20 °C...+60 °C
Fire load per m:	0.15 kWh
Weight per 1 m:	380 g
Packaging:	100/500 m spool
Matching plug:	RJ45C6XL, RJ45C6XL-A, NE8MX6

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF
Max. section length:	CAT.5e: 140 m
Insulat. resistance per 1 km:	5 GΩ
Surge impedance:	100 Ω (±5 Ω)
Loop resistance:	max. 190 Ω/m
Velocity factor:	0.77
Maximum delay:	450 ns @ 100 MHz/100 m
Max. delay (Skew):	5 ns @100 MHz/100 m
Attenuation (ACR) per 100 m (20 °C):	100 MHz: 23.5 dB
	200 MHz: 32.0 dB
	300 MHz: 41.5 dB
	400 MHz: 48.0 dB
	500 MHz: 53.5 dB

**COLOR/TYPE**  
■ black, 2 x CAT.7  
■ black, 4 x CAT.7

**ORDER NO.**  
**580-0311-02** **NEW**  
**580-0311-04**



☎ x00119



Bulk Cables ▶ **SC-AQUA MARINEX CABLE SERIES**

Underwater Cables, Marine Cables, Cables for Shipbuilding, Cables for Outdoor Applications

*When things get a little too wet ...*

we've got you (and your cables) uniquely covered. The **SC-AQUA MARINEX** cable series is the ideal solution should you want to install audio/video/control lines, network or fiber-optic cables permanently underwater or in a wet environment.

**APPLICATIONS:**

- Permanent laying in water depths of 20 – 200 m/65 – 650 ft., depending on version
- >> Water parks
- >> Fountains and garden facilities
- >> Sports grounds
- >> Shipbuilding
- >> Underwater photo and film technology
- >> Underwater and boat video surveillance
- >> Adventure and amusement parks
- >> Lake events
- >> Fish farms and hatchery ponds
- >> Saunas
- >> Pump controls
- >> Environmental protection (sediment technology)
- >> Arbors, gazebos
- >> Swimming pools and thermal spas (Outdoor)
- >> Tunnel construction
- >> Outdoor/winter sports facilities
- >> Horse and dog racetracks and many more



20 ... 200 m deep

**PRODUCT BENEFITS:**

- Saltwater and freshwater-resistant outer jacket
- Halogen-free and flame-retardant
- UV-resistant, microbe-resistant
- Sand-repellent, easy to clean (e.g., events near the beach)
- Special inner protective banding, pressure compensating water
- More cost-effective than conventional marine cables
- Notch-resistant



Fiber-optic cable OM3 multimode 50/125 μm

**AQUA**

All cables labeled **AQUA** are **longitudinally watertight up to 20 bars of water pressure** or **transversely watertight (AQUA MARINEX series)**. The special PUR jacket keeps water and other fluids from penetrating and prevents longitudinal dispersion in case of cable damage. The watertight jacket is also robust enough to handle the installation of high-pressure insulated terminals inevitably needed to prevent

moisture from penetrating. Due to the combination of a special saltwater-resistant PUR jacket and protective band, the **AQUA MARINEX** cable series can be permanently laid underwater (not chlorine water resistant). The jacket's unique multi-layer construction prevents water penetration. Water perforating a weaker jacket would speed up the oxidation process and (due to capillary action) alter the attenuation and other relevant electrical

values. Video and other coaxial cable types (like those for surveillance cameras or monitors) are particularly susceptible to water damage.

Beginning with an order quantity of 3 km/9842 ft. practically all of our cables can be made with a longitudinally or transversely watertight jacket.

BULK CABLE - VARIOUS





## MICROPHONE CABLE AES/EBU 110 Ω, TRANSVERSELY WATERTIGHT

SALTWATER-RESISTANT, HALOGEN-FREE, 110 Ω AES/EBU

### SC-AQUA MARINEX MIKRO

⊗ STAGE ⊗ MOBILE ⊗ INSTALL ⊗ ELA

ANALOG DIGITAL AQUA HALOGEN-FREE PUR OFC

*Shower singers will be happy ...*

about the new **AQUA MARINEX microphone cable** for permanent underwater use. The **AQUA MARINEX** microphone and AES/EBU cable is the standard installation cable in wet areas such as aquaparks and on boats. It ensures excellent audio signal transmission, and enables the triggering of visual effects. Particularly for long-term events such as lake night festivals, Christmas markets, sporting events, in the theater sector or OB vans, the **AQUA MARINEX** provides an ideal connection. To handle great water pressure and minimize mechanical stress and electrical interference, we have stabilized the wires internally and fitted the cable with two tight copper braidings which are insulated against each other. For safety purposes, one screen can be tied to the shell of the XLR connector. The cable is a bit stiffer than conventional PVC cables, on the one hand, but almost indestructible on the other.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

Ø mm  
**4.6**

Ø mm  
**7.2**

Shielding  
**95%**

Shielding  
**95%**

mm<sup>2</sup>  
**2x0.14**

mm<sup>2</sup>  
**2x0.25**

#### APPLICATIONS:

- Maximum water depth of 50 m/160 ft. (MIKRO 25)
- Demanding outdoor installations
- Digital control of visual effects
- Installation and usage near the coast and in shipbuilding
- Indoor and outdoor installation in leisure parks and water oases

#### PRODUCT ADVANTAGES:

- Saltwater and freshwater-resistant black and white outer jacket
- 110 Ω wave impedance, AES/EBU, DMX512
- Transversely watertight due to water-absorbing, pressure-compensating protective banding
- Cold-flexible and reelable
- UV- and microbe-resistant
- Shielded by two tight copper braidings, insulated against each other (MIKRO 25)

#### TECHNICAL DATA

	MIKRO 14	MIKRO 25
Jacket, diameter:	PUR-SR 4.6 mm	PUR-SR 7.2 mm
Inner conductors:	2 x 0.14 mm (AWG26)	2 x 0.25 mm <sup>2</sup> (AWG23)
Copper strands per conductor:	18 x 0.10 mm	32 x 0.10 mm
Conductor insulation:	PE 1.1 mm	PUR 1.6 mm
Shielding:	copper spiral + special protective banding	
Shielding factor:	95%	95%
Temperature range:	-40°C...+80°C	
Max. water pressure:	2 bars	5 bars
Max. water depth:	20 m	50 m
Fire load per m:	0.18 kWh	0.27 kWh
Weight per 1 m:	30 g	65 g
Packaging:	per m	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	65 pF	50 pF
Capac. cond./shield. per 1 m:	190 pF	190 pF
Cond. resistance per 1 km:	141 Ω	78 Ω
Shield. resistance per 1 km:	29.1 Ω	29.1 Ω
		23.8 Ω
Insulation resist. per 1 km:	1 GΩ	1 GΩ
Surge impedance:	110 Ω ± 3%	110 Ω ± 3%

#### COLOR

- white, PUR-SR 14
- black, PUR-SR 14
- black, PUR-SR 25

#### ORDER NO.

- 200-0140AQ**
- 200-0141AQ**
- 200-0241AQ**



## MICROPHONE CABLE ARAMID AES/EBU 110 Ω, TRANSVERSELY WATERTIGHT

SALTWATER-RESISTANT, HALOGEN-FREE, WITH ARAMID STRAIN RELIEF

### SC-AQUA MARINEX ARAMID MIKRO14

⊗ STAGE ⊗ MOBILE ⊗ INSTALL ⊗ ELA

ANALOG DIGITAL AQUA HALOGEN-FREE PUR OFC ARAMID

*Perfectly adapted ...*

to our watertight HICON IP XLR **HI-MARLIN** connector series is this compact and ultra robust 110-ohm microphone cable. The cable diameter of the **SC-AQUA MARINEX ARAMID MIKRO14** was determined so that the cable lines up precisely with the new strain relief of the HICON HI-MARLIN connectors and guarantees a waterproofness pursuant to IP67. Of course, the cable can also be fitted with standard XLR connectors.

The custom-tailored outer diameter makes this connection easy to handle and assemble with no "fiddling". Owing to its many positive technical properties, the cable is extremely versatile in use. It's a robust, abrasion-proof and cold-flexible microphone cable for outdoor use, for a permanent installation under water and also a reliable cable for 110-ohm applications (AES/EBU and 3-pole DMX transmission).

The internal aramid fibers provide an extra anti-rodent protection and also a heavy-duty strain relief, e.g. when microphones shall be installed free-hanging.

#### FREE SAMPLE AVAILABLE!

Sectional drawing see website.

Ø mm  
**6.2**

Shielding  
**95%**

mm<sup>2</sup>  
**2x0.14**

#### APPLICATIONS:

- Permanent installation at a max. water depth of 20 m (66 ft.)
- Controlling of visual effects
- Abrasion-proof microphone cable for outdoor areas or the OB van
- Outdoor and indoor installation in amusement parks, sports arenas, wildlife parks etc.
- Utilization near the coast and in boat building

#### PRODUCT ADVANTAGES:

- Diameter adapted to the watertight HICON MARLIN XLR connectors
- Salt- and freshwater, UV and microbe-resistant outer jacket
- Additional aramid fibers inside as strain relief and anti-rodent protection
- Suitable for 110-ohm AES/EBU and DMX (3-pole) applications
- Cold-flexible and reelable

#### TECHNICAL DATA

Construction:	(2LI2Y0.14 mm <sup>2</sup> )(ST)CY
Jacket, diameter:	PUR-SR 6.2 mm, with aramid reinforcement
Inner conductors:	2 x 0.14 mm <sup>2</sup> (AWG26)
Copper strands per conductor:	18 x 0.10 mm
Conductor insulation:	PE 1.2 mm
Shielding:	copper spiral + special protective banding
Shielding factor:	95 %
Temperature range:	-40°C ... +80°C
Max. water pressure:	2 bars
Max. water depth:	20 m
Fire load per m:	0.22 kWh
Weight per 1 m:	55 g
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF
Capac. cond./shield per 1 m:	90 pF
Cond. resistance per 1 km:	140 Ω
Shield. Resistance per 1 km:	< 10 Ω
Insulation resist. Per 1 km:	1 GΩ
Surge impedance:	110 Ω

#### COLOR/TYPE

- black

#### ORDER NO.

- 200-0131AQ** **NEW**







## MICROPHONE CABLE DMX, AES/EBU 110 Ω, TRANSVERSELY WATERTIGHT

SALT WATER RESISTANT, HALOGEN-FREE, 4-WIRE, BALANCED

### SC-AQUA MARINEX BINARY 422

⊗ STAGE ⊗ MOBILE ⊗ INSTALL ⊗ ELA

ANALOG DIGITAL AQUA HALOGEN-FREE PUR OFC ARAMID

#### Who can deal with pressure ...

has a clear edge under water. The 4-wire **SC-AQUA MARINEX BINARY 422** audio and DMX cable is the transversely watertight version of our legendary BINARY 434, optimized for the permanent installation under water and in outdoor areas. To make it withstand the high water pressure, the four wires are embedded in a hard PVC tube and the stranded wire pairs were fitted on top with an additional water-blocking tape to seal the cable interior in case of intruding water. The special **SC-AQUA MARINEX PUR** outer jacket is extremely robust, UV- and cold-resistant and also very easy to reel.

Due to the surge impedance of 110 ohms, the **SC-AQUA MARINEX BINARY 422** is also an excellent choice as a high-quality data EIA-485/ RS-485 bus line.

**FREE SAMPLE AVAILABLE!**

Ø mm  
**7.0**

Shielding  
**100%**

mm<sup>2</sup>  
**4x0.22**



Sectional drawing

#### APPLICATIONS:

- Permanent laying in water depths of up to 50 m
- Installation in outdoor zones (e.g. in riding arenas or at longtime events)
- Utilization and installation near the coast or in boat building
- Outdoor and indoor installations in amusement or water funparks
- RS-485 BUS cable in the industrial sector
- Digital control of visual effects

#### PRODUCT ADVANTAGES:

- Fresh and salt water resistant outer jacket
- 4-wire, shielded for the DMX and BUS transmission
- 110 ohms surge impedance
- Transversely watertight with protective banding and pressure compensating tube
- Cold-flexible and reelable
- UV- and microbe-resistant

#### TECHNICAL DATA

Construction:	[2(2LI2YS0.22 mm <sup>2</sup> )(ST)]CY
Jacket, diameter:	PVC inner jacket 4.7 mm PUR-SR outer jacket 7.0 mm
Inner conductors:	4 x 0.22 mm <sup>2</sup> (AWG24)
Copper strands per conductor:	28 x 0.10 mm
Conductor insulation:	PE 1.6 mm
Shielding:	Copper braiding, tin-plated + AL/PT-foil + special protective banding
Shielding factor:	100 %
Temperature range:	-40°C ... +80°C
Max. water pressure:	5 bars
Max. water depth:	50 m
Fire load per m:	0.23 kWh
Weight per 1 m:	75 g
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	40 pF
Capac. cond./shield per 1 m:	108 pF
Cond. resistance per 1 km:	90 Ω
Shield. Resistance per 1 km:	4.50 Ω
Insulation resist. Per 1 km:	1 GΩ
Surge impedance:	110 Ω

#### COLOR/TYPE

■ black

#### ORDER NO.

**550-0241AQ** **NEW**



x01716



## SPEAKER CABLES, TRANSVERSELY WATERTIGHT

SALT-WATER-RESISTANT, HALOGEN-FREE

### SC-AQUA MARINEX SPEAKER

⊗ STAGE ⊗ MOBILE ⊗ INSTALL ⊗ ELA

AQUA HALOGEN-FREE PUR OFC

#### Tough under pressure ...

are our new **AQUA MARINEX speaker cables** for permanent underwater use. Initially this robust cable was developed for use in theme or amusement parks. However, it also enjoys a great popularity in the installation of extended outdoor events such as Christmas fairs, lake festivals or sporting events under extremely adverse conditions (e.g., equestrian events).

We have reinforced the wire leads internally, encasing them in tight copper braiding, so that the **AQUA MARINEX** can withstand high water pressure as well as mechanical strains and electrical interference. The cables can also be used in the live PA business, of course, but they are somewhat stiffer than standard PVC cables, yet extremely rugged.

**4- and 8-wire** aramid-reinforced **SC-AQUA MARINEX EL** versions can be found on the following pages.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

Ø mm  
**8.2**

Shielding  
**85%**

mm<sup>2</sup>  
**2x2.5**

Ø mm  
**11.2**

Shielding  
**85%**

mm<sup>2</sup>  
**2x4.0**

#### APPLICATIONS:

- Permanent install in a maximum water depth of 50 m/160 ft.
- Demanding outdoor installations, such as extended outdoor events
- Installation and usage near the coast and in shipbuilding
- Indoor and outdoor installation in leisure parks and water oases
- Underwater sound reinforcement in theme parks or aqua parks

#### PRODUCT ADVANTAGES:

- Saltwater and freshwater-resistant outer jacket
- Transversely watertight due to water-absorbing, pressure-compensating protective banding
- Halogen-free
- Cold-flexible and reelable
- UV- and microbe-resistant
- Shielded by a tight copper braiding

#### TECHNICAL DATA

	SPEAKER 225	SPEAKER 240
Jacket, diameter:	PUR-SR 8.2 mm	PUR-SR 11.2 mm
Inner conductors:	2 x 2.5 mm <sup>2</sup> (AWG13)	2 x 4.0 mm <sup>2</sup> (AWG11)
Copper strands per conductor:	142 x 0.15 mm	224 x 0.15 mm
Conductor insulation:	PO 2.6 mm	PO 3.8 mm
Shielding:	copper braiding + special protective banding	
Shielding factor:	85%	85%
Temperature range:	-40°C...+80°C	-40°C...+80°C
Max. water pressure:	5 bars	5 bars
Max. water depth:	50 m	50 m
Fire load per m:	0.28 kWh	0.55 kWh
Weight per 1 m:	117 g	178 g
Packaging:	per m	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	90 pF	80 pF
Cond. resistance per 1 km:	< 8.21 Ω	< 5.09 Ω
Shield. resistance per 1 km:	16.2 Ω	8.1 Ω
Insulation resist. per 1 km:	>1 GΩ	>1 GΩ

#### COLOR/Ø

■ black, PUR-SR, 2 x 2.5 mm<sup>2</sup>

■ black, PUR-SR, 2 x 4.0 mm<sup>2</sup>

#### ORDER NO.

**425-0241AQ**

**440-0241AQ**



x00124

## LOUDSPEAKER CABLE ARAMID, TRANSVERSELY WATERTIGHT

SEAWATER RESISTANT, WITH ARAMID STRAIN RELIEF

### SC-AQUA MARINEX EL

⊗ STAGE ⊗ MOBILE ⊗ INSTALL ⊗ ELA

ANALOG AQUA HALOGEN-FREE PUR OFC ARAMID

*The universal all-around solution ...*

is now available in the form of the "Multi-Purpose" **SC-AQUA MARINEX EL** speaker cable which is transversely watertight as well as seawater-resistant and rodent-proof.

The transversely watertight outer jacket with integrated water-blocking tape prevents water from intruding, no matter if in continuous underwater use or in moist surroundings like e.g. in tunnel building or sediment technology. Owing to the additional aramid braid, this construction offers an excellent strain relief opportunity plus increased protection against all kinds of rodents. In the special jacket compound we do without the usual chemical additives which are perceived by rodents as "very yummy" and often even as attracting.

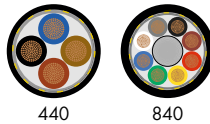
**FREE SAMPLE AVAILABLE!**

BULK CABLE - VARIOUS



Ø mm  
**13.0**

mm<sup>2</sup>  
**4x4.0**



#### APPLICATIONS:

- High-quality speaker cable for permanent underwater installation
- Flexible and easy to reel
- Durable, water-resistant construction for boat- and shipbuilding
- Resilient cable for installations under harsh conditions

#### PRODUCT ADVANTAGES:

- Transversely watertight due to the special PUR jacket with water-blocking tape
- Rodent protection due to aramid braid
- Highly flexible due to torsion-free construction (X-torsion) and fine litz wire design
- UV-resistant and cold-flexible (-30 °C mobile applications/-40 °C fixed installations)
- Chlorine water resistant

#### TECHNICAL DATA

	440	840
Construction:	[(4LIY4.0 mm <sup>2</sup> )(ST)]ZNI1Y	[(8LIY4.0 mm <sup>2</sup> )(ST)]ZNI1Y
Jacket, diameter:	PUR-SR 13.0 mm, with ARAMID reinforcement and special protective banding	PUR 18.0 mm, with ARAMID reinforcement and special protective banding
Inner conductors:	4 x 4.0 mm <sup>2</sup> (AWG11)	8 x 4.0 mm <sup>2</sup> (AWG11)
Copper strands per cond.:	126 x 0.20 mm	126 x 0.20 mm
Conductor insulation:	PE 3.8 mm	PE 3.8 mm
Max. tensile strength:	3600 N / 360 kg	3600 N / 360 kg
Temperature range :	-40 °C ... +80 °C	-40 °C ... +80 °C
Fire load per m:	0.95 kWh	2.30 kWh
Weight per 1 m:	285 g	540 g
Packaging:	Sold by meter	Sold by meter

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	90 pF	90 pF
Cond. resistance per 1 km:	4.95 Ω	4.95 Ω
Insulation resist. per 1 km:	500 MΩ	150 MΩ
Rated voltage:	500 V	500 V
Test voltage:	2000 V	2000 V

#### COLOR

- black
- black

#### ORDER NO.

**490-0231-440AQ** **NEW**  
**490-0231-840AQ** **NEW**



2 x00067

## SAT CABLE HD-SDI/HDTV, TRANSVERSELY WATERTIGHT

ANTI AGING (LLX)

### SC-AQUA MARINEX ASTRAL LLX

⊗ STUDIO ⊗ INSTALL

ANALOG DIGITAL HDTV OFC AQUA ARAMID

*Old as Methuselah ...*

while being and looking fit like a young lad. The **SC-AQUA MARINEX ASTRAL-LLX** has a patented construction of carbon screens around its solid wire and insulation plus a protective aluminum-polyester foil beneath the PUR outer jacket. This prevents material fatigue and guarantees constant super low attenuation values as well as 120 dBs of shielding efficiency for decades. Moreover, the two carbon screens stabilize both the solid conductor and the skin-PE insulation. Thus the cable maintains its round shape and electrical values, even after installation. The cable meets the HD-SDI standard and is suitable for long installation distances in large SAT receiving systems.

Of course, like all of our **AQUA MARINEX** cables it is also equipped with the typical water-blocking tape to seal the cable interior in case of intruding water. The special **SC-AQUA MARINEX PUR** outer jacket is extremely robust, UV- and cold-resistant and also very easy to reel.

On top the cable features an integrated ARAMID mesh as anti-rodent protection and for strain relief.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.



Ø mm  
**8.5**

Shielding  
**100 %**

Ø Wire  
**1.13**

#### APPLICATIONS:

- High-end cable for BC and digital SAT systems for a permanent installation under water
- For professional HDTV use
- Demanding installations in outdoor areas

#### PRODUCT ADVANTAGES:

- Transversely watertight due to the special PUR jacket with water-blocking tape
- Anti-rodent protection by aramid mesh
- Constant post-installation values even for decades due to patented anti-aging construction (LLX)
- Suitable for analog and digital, HDTV transmission quality

#### TECHNICAL DATA

Construction:	(1.13/5.0) 120 dB
Jacket, Ø: PVC, white	PUR 8.5mm, with ARAMID reinforcement
Inner conductors:	1x1.13 mm (AWG17)
Copper strands per cond.:	Solid copper
Conductor insulation, Ø:	Foam/Skin-PE 5.0 mm
Shielding:	Cu braid tinned + AL compound foil, with special protective banding
Shielding factor:	100 %
Temperature range:	-30 °C...+80 °C
Fire load per m:	0.41 kWh
Weight per 1 m:	88 g
Packaging:	100 m spool
Matching plug:	FM-5.8, FMC-5.7

#### ELECTRICAL DATA

Surge impedance:	75 Ω ±2 %
Screening attenuation:	> 120 dB
D.C. resistance per km:	inner cond. 17 Ω outer cond. 9 Ω
Attenuation per 100 m (20°C):	100 MHz: 5.6 dB      1485 MHz: 23.0 dB 200 MHz: 7.9 dB      1750 MHz: 25.2 dB 470 MHz: 12.4 dB      2150 MHz: 28.4 dB 862 MHz: 17.0 dB      3000 MHz: 34.8 dB 1000 MHz: 18.6 dB

#### COLOR

- PUR

#### ORDER NO.

**600-0961AQ-LLX** **NEW**



2 x01717

## VIDEO, INSTRUMENT CABLE 0.6L/3.7 TRANSVERSELY WATERTIGHT RG59 [HD/UHD]

75 Ω, SALTWATER-RESISTANT, HALOGEN-FREE

### SC-AQUA MARINEX VIDEO AWG23/0.024"

STAGE
  MOBILE
  INSTALL
  ELA

ANALOG
  DIGITAL
  AQUA
  HALOGEN-FREE
  PUR
  HD/UHD

### Expensive hobbies do not necessarily require ...

an expensive cable. This cable was initially developed for installation in shipbuilding. The **AQUA MARINEX video cable** is frequently used for installations on speedboats or ships to connect audio components or video surveillance monitors.

The 0.6L/3.7 / AWG23 (0.024") cable is small in diameter and has an insulation of solid PE, which makes it suitable for permanent underwater use and tolerant of high water pressure.

Owing to its asymmetrical construction the **AQUA MARINEX** can also be used as an instrument lead or audio-frequency phono cable, as can be seen more and more often, e.g. on luxury motorboats, speedboats or yachts. These virtually indestructible cables have a black UV-resistant outer jacket, which can be painted over using standard paint without negatively affecting the cable's functionality or finish.

**FREE SAMPLE AVAILABLE!**

Ø mm  
**6.4**

Shielding  
**90%**

Ø Conductor  
**0.60**



Sectional drawing

#### APPLICATIONS:

- Video cable for permanent installation in shipbuilding, tunnel construction or in sport arenas
- Flexible video cable for the camera supply line on dive sessions
- High-quality phono/audio line for audio signal transmission

#### PRODUCT ADVANTAGES:

- Solid outer jacket and robust inner structure (PE insulation)
- Reelable
- Cost-efficient underwater variant
- Useable in water depths of 50 m/160 ft.
- Cold-flexible
- Halogen-free

#### TECHNICAL DATA

Jacket, diameter:	PUR-SR 6.4 mm
Inner conductors:	0.22 mm <sup>2</sup> ± Ø 0.6 mm (AWG23)
Copper strands per conductor:	7 x 0.20 mm
Conductor insulation:	PO 3.3 mm
Shielding:	Copper braiding + special protective banding
Shielding factor:	90 %
Temperature range:	-40 °C...+80 °C
Max. water pressure/depth:	5 bars/50 m
Fire load per m:	0.30 kWh
Max. Transmission length:*	83 m (SMPTE 425M, 3G), 62 m (SMPTE 2081, 6G), 42 m (SMPTE 2082, 12G)
Weight per 1 m:	51 g
Packaging:	per m
Matching plug:	BNC59, BNC0.6/3.7, NBNC75BLP7

#### ELECTRICAL DATA

Surge impedance:	75 Ω ± 3%										
Capac. cond./shield. per 1 m:	70 pF										
Cond. resistance per 1 km:	89 Ω										
Shield. resistance per 1 km:	12.5 Ω										
Velocity factor:	0.66										
Attenuation per 100 m (20°C):	<table border="1"> <tr> <td>100 MHz:</td> <td>11.2 dB</td> </tr> <tr> <td>200 MHz:</td> <td>16.1 dB</td> </tr> <tr> <td>500 MHz:</td> <td>24.9 dB</td> </tr> <tr> <td>800 MHz:</td> <td>34.8 dB</td> </tr> <tr> <td>1000 MHz:</td> <td>39.4 dB</td> </tr> </table>	100 MHz:	11.2 dB	200 MHz:	16.1 dB	500 MHz:	24.9 dB	800 MHz:	34.8 dB	1000 MHz:	39.4 dB
100 MHz:	11.2 dB										
200 MHz:	16.1 dB										
500 MHz:	24.9 dB										
800 MHz:	34.8 dB										
1000 MHz:	39.4 dB										

#### COLOR

■ black, PUR-SR, RG59

#### ORDER NO.

**600-0241AQ**



■ x00125

## VIDEO, INSTRUMENT CABLE 1.2L/4.8 TRANSVERSELY WATERTIGHT [HD/UHD]

75 Ω, SALTWATER-RESISTANT, HALOGEN-FREE

### SC-AQUA MARINEX VIDEO AWG18/0.042"

STAGE
  MOBILE
  INSTALL
  ELA

ANALOG
  DIGITAL
  AQUA
  HALOGEN-FREE
  PUR
  HD/UHD

### Deep sea signal security ...

Loss-free video signal transmission underwater is not only a challenge for the deep-sea diver, but for the cable as well. The 1.2L/4.8 / AWG18 (0.042") version is the HD-SDI variant of the **AQUA MARINEX** 0.6L/3.7 / AWG23 (0.024"), but with a gas-injected insulation and double shielding, for high-resolution Full HD picture formats and greater transmission distances. It is designed for permanent use in a maximum water depth of 50 m/160 ft., where it easily handles all kinds of attacks from small aquatic life and excessive water pressure.

Due to its asymmetrical construction the **AQUA MARINEX** may also be used as an instrument or audio-frequency phono cable. It has a black UV-resistant outer jacket, which can be readily overpainted with standard paint without affecting functionality nor finish.

**FREE SAMPLE AVAILABLE!**

Sectional drawing see website.

Ø mm  
**7.4**

Shielding  
**90%**

Ø Conductor  
**1.06**

#### APPLICATIONS:

- HD-SDI video cable for permanent installation in shipbuilding, tunnel construction or in sport arenas
- Flexible HD-SDI video cable as camera supply line with dive sessions
- High-quality phono/audio line for the audio signal transmissions
- High-resolution picture transmission, e.g. for use in sediment technology

#### PRODUCT ADVANTAGES:

- Solid outer jacket and double copper braided shielding
- Reelable and high number of bending cycles
- Useable in water depths of 50 m/160 ft.
- Cold-flexible due to special HD-PUR jacket
- Uncompromising quality mechanically and electrically
- Useable with common 1.2L/4.8 / AWG18 (0.042") BNC connectors
- Halogen-free

#### TECHNICAL DATA

Jacket, diameter:	PUR-SR 7.4 mm
Inner conductors:	0.88 mm <sup>2</sup> ± Ø 1.06 mm (AWG18)
Copper strands per conductor:	7 x 0.40 mm
Conductor insulation:	PO 4.8 mm
Shielding:	2 x Copper braiding + special protective banding
Shielding factor:	90 %
Temperature range:	-40 °C...+80 °C
Max. water pressure/depth:	5 bars/50 m
Fire load per m:	0.38 kWh
Max. Transmission length:*	141 m (SMPTE 425M, 3G), 96 m (SMPTE 2081, 6G), 62 m (SMPTE 2082, 12G)
Weight per 1 m:	81 g
Packaging:	per m
Matching plug:	I-4575-2100-1, BNC1.2/5.0HD

#### ELECTRICAL DATA

Surge impedance:	75 Ω ± 3%																
Capac. cond./shield. per 1 m:	52 pF																
Cond. resistance per 1 km:	23 Ω																
Shield. resistance per 1 km:	4.95 Ω																
Velocity factor:	0.78																
Attenuation per 100 m (20°C):	<table border="1"> <tr> <td>200 MHz:</td> <td>9.3 dB</td> <td>1482 MHz:</td> <td>28.1 dB</td> </tr> <tr> <td>470 MHz:</td> <td>14.2 dB</td> <td>1750 MHz:</td> <td>30.3 dB</td> </tr> <tr> <td>862 MHz:</td> <td>21.0 dB</td> <td>2150 MHz:</td> <td>34.0 dB</td> </tr> <tr> <td>1000 MHz:</td> <td>23.0 dB</td> <td>3000 MHz:</td> <td>41.6 dB</td> </tr> </table>	200 MHz:	9.3 dB	1482 MHz:	28.1 dB	470 MHz:	14.2 dB	1750 MHz:	30.3 dB	862 MHz:	21.0 dB	2150 MHz:	34.0 dB	1000 MHz:	23.0 dB	3000 MHz:	41.6 dB
200 MHz:	9.3 dB	1482 MHz:	28.1 dB														
470 MHz:	14.2 dB	1750 MHz:	30.3 dB														
862 MHz:	21.0 dB	2150 MHz:	34.0 dB														
1000 MHz:	23.0 dB	3000 MHz:	41.6 dB														

#### COLOR

■ black, PUR-SR, HD-SDI

#### ORDER NO.

**605-0241AQ**



■ x00126

\* Data depends on transmitter and receiver. Detailed table at [www.sommercable.com](http://www.sommercable.com) → Service → Techn. Info

– Price lookup via QR code or search number at [shop.sommercable.com](http://shop.sommercable.com) • Subject to change • The General Terms and conditions apply (see [www.sommercable.com](http://www.sommercable.com)) –

**CAT.6A, ARAMID, TRANSVERSELY WATERTIGHT**

SALTWATER-RESISTANT, HALOGEN-FREE, WITH ARAMID STRAIN RELIEF, BASED ON CAT.6A SF/UTP

**SC-AQUA MARINEX CAT.6A PUR-SR**

STAGE 
  MOBILE 
  INSTALL 
  ELA

ANALOG 
  DIGITAL 
  AQUA 
  HALOGEN-FREE 
  PUR 
  OFC 
  ARAMID

*The dream of all IT pros is coming true, ...*

even your swimming pool can be integrated into your network environment. The **AQUA MARINEX network cable** has the mechanical construction of a CAT.6 cable to meet the CAT.5e standard (Class D, 100 MHz at 100 m cable length) both in mobile and underwater use with respect to data. It may be used for controlling light signals or other visual effects, for realtime data transmission on dive sessions, as a computer link in sediment engineering, as a transmission cable in fish farming or in tunnel construction. It's the ideal network line for a high-class installation in shipbuilding. The **AQUA MARINEX network cable** remains flexible at  $-40\text{ }^{\circ}\text{C}/-40\text{ }^{\circ}\text{F}$ , which makes it a prime choice for winter events.

**FREE SAMPLES AVAILABLE!**

Sectional drawing see website.

Ø mm  
**9.7**

Shielding  
**100 %**

Ø mm  
**4x2x0.22**

BULK CABLE - VARIOUS

**APPLICATIONS:**

- Permanent install in a maximum water depth of 20 m/65 ft.
- Installation on boats, ships and yachts
- Demanding outdoor installation (e.g., at extended events), in the snow etc.
- Outdoor and indoor installations in amusement parks and water oases
- Reelable, for broadcasting van technology

**PRODUCT ADVANTAGES:**

- Saltwater and freshwater-resistant outer jacket
- Transversely watertight due to water-absorbing, pressure-compensating protective banding
- Halogen-free, UV- and microbe-resistant
- Cold-flexible and reelable
- With aramid reinforcement for extra strain relief

**TECHNICAL DATA**

	<b>CAT.6A</b>
Jacket, diameter:	PUR-SR 9.7 mm
Inner conductors:	4 x 2 x 0.22 mm
AWG:	AWG24/7
Copper strands per conductor:	7 x 0.20 mm
Conductor insulation:	PE
Shielding:	Copper braiding, tin-plated + AL/PT-foil + special protective banding
Shielding factor:	100 %
Temperature range:	$-40\text{ }^{\circ}\text{C} \dots +70\text{ }^{\circ}\text{C}$
Max. water pressure:	3 bars
Max. water depth:	20 m
Fire load per m:	0.62 kWh
Weight per 1 m:	127 g
Packaging:	per m
Matching plug:	RJ45C6XL, RJ45C6XL-A, NE8XM6, M12-8MC-C6A

**ELECTRICAL DATA**

Surge impedance:	100 $\Omega \pm 15\text{ } \Omega$												
Maximum length 10 Gbit:	76 m												
Capac. cond./cond. per 1 m:	52 pF												
Insulation resist. per 1 km:	> 5 G $\Omega$												
Velocity factor:	0.67												
Max. section length:	90 m at CAT.5e												
Max. delay:	535 ns @ 100 MHz/100 m												
Max. delay offset (skew):	45 ns @ 100 MHz/100 m												
Attenuation per 100 m (20°C):	<table border="1"> <tbody> <tr> <td>1 MHz:</td> <td>2.1 dB</td> <td>150 MHz:</td> <td>32.7 dB</td> </tr> <tr> <td>20 MHz:</td> <td>10.4 dB</td> <td>200 MHz:</td> <td>37.6 dB</td> </tr> <tr> <td>100 MHz:</td> <td>25.5 dB</td> <td>250 MHz:</td> <td>42.6 dB</td> </tr> </tbody> </table>	1 MHz:	2.1 dB	150 MHz:	32.7 dB	20 MHz:	10.4 dB	200 MHz:	37.6 dB	100 MHz:	25.5 dB	250 MHz:	42.6 dB
1 MHz:	2.1 dB	150 MHz:	32.7 dB										
20 MHz:	10.4 dB	200 MHz:	37.6 dB										
100 MHz:	25.5 dB	250 MHz:	42.6 dB										

**COLOR**

■ black, PUR-SR

**ORDER NO.****580-0241AQ**

x00127

**AES/EBU, DMX & POWER HYBRID CABLE, TRANSVERSELY WATERTIGHT**SALTWATER-RESISTANT, HALOGEN-FREE, POWER+110  $\Omega$  AES/EBU**SC-AQUA MARINEX POWER+DMX**

STAGE 
  MOBILE 
  INSTALL 
  ELA

ANALOG 
  DIGITAL 
  AQUA 
  HALOGEN-FREE 
  PUR 
  OFC

*A water garden light show...*

delights the eyes with light signals programmed in sync to sound in connection with remote-controlled water fountains. The **AQUA MARINEX POWER + DMX** is perfectly suited for this application with its 3 x 1.5 mm<sup>2</sup>/AWG15 power lines plus a shielded DMX 512 cable, which may also be used for digital AES/EBU or analog sound signal transmission (microphones, active speaker systems, etc.). Especially for the lighting control at long-term events in or near the water or snow – such as night-time lake festivals, winter games, Christmas fairs, sporting events, in the theater sector or with challenging OB van assignments – the robust **AQUA MARINEX** offers the perfect connection.

Its special saltwater-resistant PUR jacket, its compact construction and its inner layer of waterproof protective banding make it possible to lay this cable underwater permanently down to a depth of 20 m/65 ft.

**FREE SAMPLES AVAILABLE!**

Sectional drawing see website.

Ø mm  
**9.4**

Shielding  
**95 %**

mm<sup>2</sup>  
**2x0.14**

Ø mm  
**9.4**

Shielding  
**95 %**

mm<sup>2</sup>  
**2x0.14**

**APPLICATIONS:**

- Permanent use in a maximum water depth of 20 m/65 ft.
- Demanding outdoor installation (e.g., with long-term events)
- Installation and usage near the coast and in shipbuilding
- Indoor and outdoor installation in leisure parks and water oases
- Control of DMX lighting consoles incl. power supply lines

**PRODUCT ADVANTAGES:**

- Saltwater and freshwater-resistant outer jacket in black and white (not chlorine resistant)
- Power line and AES/EBU, DMX in one robust cable
- Transversely watertight due to water-absorbing, pressure-compensating protective banding
- Halogen-free, UV- and microbe-resistant
- Cold-flexible and reelable

Also available in an ARAMID-reinforced version!  
(Order No. 500-0251AQ)

**TECHNICAL DATA**

Jacket, diameter:	PUR-SR 9.4 mm / with ARAMID 10,0 mm
Inner conductors (audio/DMX):	2 x 0.14 mm <sup>2</sup> (AWG26)
Inner conductors (power):	3 x 1,5 mm <sup>2</sup> single wires (AWG15)
Copper strands per conductor:	36 x 0.07 mm
Diameter:	DMX: 3.2 mm
Shielding:	tinned copper spiral (audio/DMX) + special protective banding
Shielding factor:	95 %
Temperature range:	$-40\text{ }^{\circ}\text{C} \dots +80\text{ }^{\circ}\text{C}$
Max. water pressure:	2 bars
Max. water depth:	20 m
Fire load per m:	0.58 kWh
Weight per 1 m:	117 g /with ARAMID 135 g
Packaging:	per m
Matching plug:	HI-MARLIN

**ELECTRICAL DATA**

Capac. cond./cond. per 1 m:	54 pF
Capac. cond./shield. per 1 m:	120 pF
Cond. resistance per 1 km:	141 $\Omega$
Insulation resist. per 1 km:	1 G $\Omega$
Surge impedance:	110 $\Omega \pm 3\%$

**COLOR**

□ white, PUR-SR

■ black, PUR-SR

■ black, PUR-SR, **ARAMID****ORDER NO.****500-0240AQ****500-0241AQ****500-0251AQ** **NEW**

x00184



## POWER/LOAD CABLE, TRANSVERSELY WATERTIGHT

SALTWATER-RESISTANT, HALOGEN-FREE

### SC-AQUA MARINEX POWER 325

STAGE
  MOBILE
  INSTALL
  ELA

ANALOG
  AQUA
  HALOGEN-FREE
  PUR
  OFC

#### Undercurrents are one thing ...

but having a real "current" underwater is quite another, and requires the highest safety standards. This cable is equipped with a robust, high-quality jacket made of thermoplastic PUR (TMPU conforming to EN 50267-2-1 – IEC 60754-1) and has the typical protective band which prevents moisture from penetrating and offers excellent protection from damage.

Of course, the **AQUA MARINEX** series can also be used for live PA work. It should be noted that the cables are slightly stiffer than standard neoprene-coated cables, but their composition makes them virtually indestructible under normal conditions. The **SC-AQUA** power cable remains flexible at  $-40\text{ }^{\circ}\text{C}/-40\text{ }^{\circ}\text{F}$ , which makes it your prime choice for winter events.

Hydrolysis resistant according to EN 50396, testing procedure compliant to EN 60811. Maximum water pressure 20 bars.

**FREE SAMPLES AVAILABLE!**



Sectional drawing

Ø mm  
**9.4**

mm<sup>2</sup>  
**3x2.5**

#### APPLICATIONS:

- Permanent use in a maximum water depth of 200 m/660 ft.
- Installation on boats, ships and yachts
- Demanding outdoor installations (e.g., at long-term events)
- Installation and use near the coast
- Outdoor and indoor installations in amusement parks and water oases
- Outdoor use in the snow
- Power supply line in sediment and pump engineering

#### PRODUCT ADVANTAGES:

- Saltwater and freshwater-resistant outer jacket
- Transversely watertight by water-absorbing, pressure-compensating guard band
- Halogen-free
- Cold-flexible and reelable
- UV- and microbe-resistant
- Fine strand construction for a high number of bending cycles

#### TECHNICAL DATA

Jacket, diameter:	PUR-SR 9.4 mm
Inner conductors:	3 x 2.5 mm <sup>2</sup>
Copper strands per conductor:	140 x 0.15 mm
Conductor insulation:	PUR
Temperature range:	$-40\text{ }^{\circ}\text{C}...+80\text{ }^{\circ}\text{C}$
Max. water pressure:	20 bars
Max. water depth:	50 m
Fire load per m:	0.48 kWh
Weight per 1 m:	147 g
Packaging:	per m

#### ELECTRICAL DATA

Insulation resist. per 1 km:	1 GΩ
Operating/nominal voltage:	1,000 V
Test voltage:	3,000 V

#### COLOR

- black, PUR-SR
- orange, PUR-SR

#### ORDER NO.

**700-0241-0325AQ**

**700-0245-0325AQ** **NEW**



■ x00128

## LED RGBW & CONTROL CABLE TRANSVERSELY WATERTIGHT

UV-RESISTANT, HALOGEN-FREE

### SC-AQUA MARINEX LED CONTROL

STAGE
  MOBILE
  INSTALL
  ELA

ANALOG
  AQUA
  HALOGEN-FREE
  PUR
  OFC

#### As countless as grains of sand on the seashore ...

are LED cables these days, but only very few are also suitable for sand on the shore. RGBW LED cables are often exposed to such adverse conditions as heat, sand, water or direct sunlight. Most control cables are unsuitable for permanent outdoor installations, because they are not UV-resistant or transversely watertight and will gradually disintegrate if subjected to such extreme conditions. We offer our RGBW LED cable with a halogen-free, UV-resistant outer jacket both for outdoor and indoor installation including an extra "water blocking tape" for the permanent use in, under and by the water. Moreover the AQUA cable is extremely resistant to abrasion, flexible at low temperatures ( $-40\text{ }^{\circ}\text{C}/-40\text{ }^{\circ}\text{F}$ ), temperature-resistant ( $+80\text{ }^{\circ}\text{C}/+176\text{ }^{\circ}\text{F}$ ), sand-repellent, saltwater-resistant and also suitable for mobile applications (tightly braided 0.10 mm/AWG38 class N6 OFCu wires). Of course, it may also be used as a control cable in medical or electrotechnical areas.

**FREE SAMPLES AVAILABLE!**

Sectional drawing see website.

Ø mm  
**5.1**

mm<sup>2</sup>  
**5x0.34**

#### APPLICATIONS:

- Special RGBW LED cable in a 5-wire version (4 wires for color channels + black return)
- Extension of RGB strips/bars or as RGB signal feed line
- For the permanent installation near and under water, maximum water depth 10 m/33 ft.

#### PRODUCT ADVANTAGES:

- UV-resistant and halogen-free
- Transversely watertight due to "water blocking tape"
- Saltwater-resistant, sand and dirt-repellent
- Ideal for mobile applications
- Temperature-resistant and cold-flexible from  $-40\text{ }^{\circ}\text{C}$  to  $+80\text{ }^{\circ}\text{C}$  /  $-40\text{ }^{\circ}\text{F}$  to  $+176\text{ }^{\circ}\text{F}$

#### TECHNICAL DATA

Jacket, diameter:	PUR-SR 5.1 mm
Inner conductors:	5 x 0.34 mm <sup>2</sup> (AWG22)
Copper strands per conductor:	45 x 0.10 mm
Conductor insulation:	PE 1.2 mm
Temperature range:	$-40\text{ }^{\circ}\text{C}...+80\text{ }^{\circ}\text{C}$
Max. water pressure:	1 – 2 bars
Max. water depth:	10 m
Fire load per m:	0.24 kWh
Weight per 1 m:	45 g
Packaging:	per m

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	79 pF
Velocity factor:	0.67
Shield. resistance per 1 km:	27 Ω
Insulation resist. per 1 km:	1 GΩ
Test voltage:	1,500 V

#### COLOR

- black, PUR-SR

#### ORDER NO.

**380-0241-05034AQ**



■ x01443



## POWER RUBBER JACKET CABLE

(HAR) FOR HIGH VOLTAGE CURRENT

### SC-RUBBERFLEX TITANEX®

⊗ STAGE ⊗ MOBILE ⊗ INSTALL



Sectional drawing

### Tried and true ...

for the H07RN-F rubber jacket lead is one of the best-selling cables on the world market. It can be used as a power line for audio components, spotlights and heavy machinery (mechanical engineering) and outdoors as well. This cable is very robust, highly flexible and has an extremely wear-resistant and durable polychloroprene (Neoprene) jacket.

**Approved according to VDE 0282, Part 4/HD 22.453, in conformity with the EC Low-Voltage Directive 73/23/EWG (50 – 1000 V AC / 75 – 1500 V DC).**

#### FREE SAMPLE AVAILABLE!

More sectional drawings see website.

#### APPLICATIONS:

- Power cable for all types of electrical appliances
- Audio technology (light dimmers, spotlights, amplifiers, racks ...)
- Mechanical engineering and agricultural machinery

#### PRODUCT ADVANTAGES:

- Extremely dependable due to flame-retardant polychloroprene jacket (polychloroprene rubber)
- Very flexible owing to fine wire stranding in compliance with VDE 0293
- Suitable for outdoor use



With the "Powercut PC85" you can make fast, clean and precise cuts (up to 36.00 mm<sup>2</sup>/AWG2)!

∅ mm  
**10.0**

∅ mm  
**12.5**

∅ mm  
**15.5**

∅ mm  
**15.0**

∅ mm  
**14.0**

∅ mm  
**19.5**

∅ mm  
**30.5**

mm<sup>2</sup>  
**3x1.5**

mm<sup>2</sup>  
**3x2.5**

mm<sup>2</sup>  
**4x2.5**

mm<sup>2</sup>  
**5x2.5**

mm<sup>2</sup>  
**3x4.0**

mm<sup>2</sup>  
**5x6.0**

mm<sup>2</sup>  
**5x16.0**

#### TECHNICAL DATA

Construction:	H07RN-F 3x1.5 mm <sup>2</sup>	H07RN-F 3x2.5 mm <sup>2</sup>	H07RN-F 4x2,5 mm <sup>2</sup>	H07RN-F 5x2.5 mm <sup>2</sup>
Jacket, diameter:	10.0 mm	12.5 mm	15,5 mm	15.0 mm
Copper strands per conductor:	accord. to DIN 0293	accord. to DIN 0293	accord. to DIN 0293	accord. to DIN 0293
Conductor insulation:	rubber	rubber	rubber	rubber
Temperature range:	-30 °C...+60 °C	-30 °C...+60 °C	-30 °C...+60 °C	-30 °C...+60 °C
Weight per 1 m:	136 g	235 g	96 g	306 g
Jacket color:	■ black	■ black	■ black	■ black
Packaging:	per m	per m	per m	per m
Insulat. resistance per 1 km:	1 MΩ	1 MΩ	1 MΩ	1 MΩ
Test voltage:	2 kV	2 kV	2 kV	2 kV
<b>ORDER NO. TITANEX®</b>	<b>700-0101-0315TI</b>	<b>700-0101-0325TI</b>	<b>700-0101-0425TI</b> <b>NEW</b>	<b>700-0101-0525TI</b>

#### TECHNICAL DATA

Construction:	H07RN-F 3x4.0 mm <sup>2</sup>	H07RN-F 5x6.0 mm <sup>2</sup>	H07RN-F 5x16.0 mm <sup>2</sup>
Jacket, diameter:	14.0 mm	19.5 mm	30.5 mm
Copper strands per conductor:	accord. to DIN 0293	accord. to DIN 0293	accord. to DIN 0293
Conductor insulation:	rubber	rubber	rubber
Temperature range:	-30 °C ... + 60 °C	-30 °C...+60 °C	-30 °C...+60 °C
Weight per 1 m:	320 g	590 g	1540 g
Jacket color:	■ black	■ black	■ black
Packaging:	per m	per m	per m
Insulat. resistance per 1 km:	1 MΩ	1 MΩ	1 MΩ
Test voltage:	2 kV	2 kV	2 kV
<b>ORDER NO. TITANEX®</b>	<b>700-0101-0340TI</b> <b>NEW</b>	<b>700-0101-0560TI</b>	<b>700-0101-05160TI</b>



☒ x00130



## POWER MULTI-CONDUCTOR CABLE

LOAD CABLE

### SC-ATRIUM FLEX

⊗ STAGE ⊗ MOBILE ⊗ INSTALL 

*Your hair will stand on end ...*

if the power cable is badly insulated. Where electricity flows, the quality of the jacket material and the wire insulation are vitally important, because a short circuit can really mess up your hairdo!

The strand wire construction of the **SC-ATRIUM FLEX** was designed in compliance with VDE 0295. The wire insulation is clearly numbered, the protective conductor in the outer layer is marked in green/yellow. The cable is extremely abrasion-proof, firm and resistant to aggressive environmental influences.

The black version with strong PVC jacket is extremely flexible and rugged.

The 18 x 2.5 mm<sup>2</sup>/AWG13 with 12 x black + 6 x green/yellow is suitable for use according to the DIN15765 standard.

**FREE SAMPLE AVAILABLE !**

Sectional drawing see website.

**APPLICATIONS:**

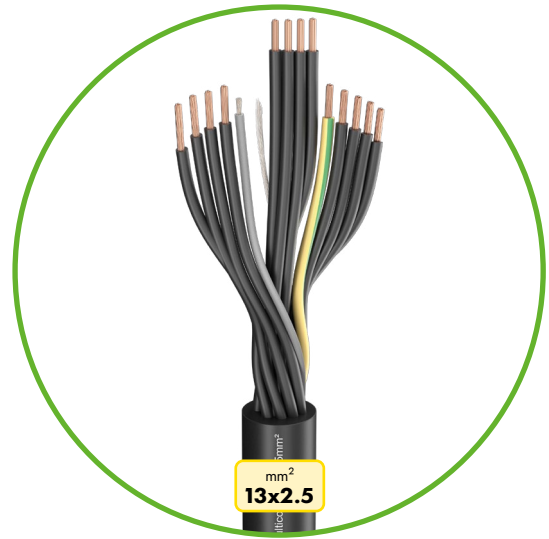
- Lighting technology and other load circuits
- For all types of machines
- Automation technology

**PRODUCT ADVANTAGES:**

- Space-saving diameter due to special insulating materials
- Extremely abrasion-proof and firm due to special PVC jacket
- Wires are clearly identified by number (VDE 0250)




∅ mm <b>9.1</b>	∅ mm <b>13.8</b>	∅ mm <b>16.1</b>	∅ mm <b>14.7</b>	∅ mm <b>18.1</b>
mm <sup>2</sup> <b>4x2.5</b>	mm <sup>2</sup> <b>13x1.5</b>	mm <sup>2</sup> <b>13x2.5</b>	mm <sup>2</sup> <b>18x1.5</b>	mm <sup>2</sup> <b>18x2.5</b>

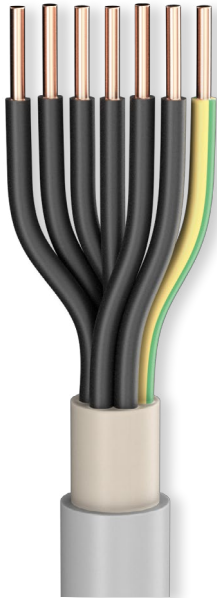


**TECHNICAL DATA**

Construction:	FLEX JZ 4x2.5 mm <sup>2</sup>	FLEX JZ 13x1.5 mm <sup>2</sup>	FLEX JZ13x2.5 mm <sup>2</sup>
Jacket, diameter:	PVC 9.1 mm	PVC 13.8 mm	PVC 16.1 mm
Copper strands per cond.:	accord. to VDE 0295	accord. to VDE 0295	accord. to VDE 0295
Conductor insulation:	Special PVC	Special PVC	Special PVC
Temperature range:	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C
Fire load per m:	0.45 kWh	0.74 kWh	0.86 kWh
Weight per 1 m:	154 g	350 g	506 g
Jacket color:	■ grey	■ black	■ black
Packaging:	100 m, per m	100 m spool, per m	100 m spool, per m
Test voltage:	4 kV	4 kV	4 kV
<b>ORDER NO.</b>	<b>700-0056-0425</b>	<b>700-0051-1315</b>	<b>700-0051-1325</b>

**TECHNICAL DATA**

Construction:	FLEX JZ 18x1.5mm <sup>2</sup>	FLEX JZ 18x2.5mm <sup>2</sup>	
Jacket, diameter:	PVC 14.7 mm	Strong-PVC 18.1 mm	
Copper strands per cond.:	accord. to VDE 0295	accord. to VDE 0295/DIN15765	
Conductor insulation:	Special PVC	Special PVC	
Temperature range:	-20 °C...+70 °C	-20 °C...+70 °C	
Fire load per m:	0.88 kWh	0.96 kWh	
Weight per 1 m:	429 g	630 g	
Jacket color:	■ black	■ black	
Packaging:	100 m, per m	per m	
Test voltage:	4 kV	4 kV	
<b>ORDER NO.</b>	<b>700-0051-1815</b>	<b>700-0051-1825</b>	 <b>x00131</b>

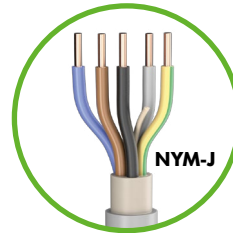


## POWER CABLE, PVC JACKET LINE, FIXED INSTALLATION NYM-O & NYM-J

PURSUANT TO DIN VDE 0250, PART 204

### NYM-O & NYM-J

INSTALL  ELA  
 ANALOG  OFC



x00132

#### TECHNICAL DATA

Construction:	NYM-O/NYM-J
Jacket material:	PVC, flame-retardant and self-extinguishing pursuant to VDE 0482-332-1-2 / IEC 60332-1
Inner conductor:	≤ 10.0 mm <sup>2</sup> solid Cu wire, ≥ 16.0 mm <sup>2</sup> multi-wire
Conductor insulation:	PVC, TII pursuant to DIN VDE 0281, wire color pursuant to DIN VDE 0293
Temperature range:	-40 °C ... +70 °C (immobile) +5 °C ... +70 °C (moving)
Jacket color:	■ gray (RAL 7035)
Packaging, P.U.:	Cable bulkware

#### ELECTRICAL DATA

Insulation resistance/km:	> 20 MΩ
Operating/rated voltage:	350/500 V
Test voltage:	2000 V

NYM-J inner conductor from 1.5 mm<sup>2</sup> - 35.0 mm<sup>2</sup>

**ORDER No.: 720-0016-.....**

NYM-O Inner conductor from 1.5 mm<sup>2</sup> - 16.0 mm<sup>2</sup>

**ORDER No.: 720-0036-.....**

Available cables see price list or under  
www.shop.sommercable.com



### (N)YM-(ST)-J

INSTALL  ELA  
 ANALOG  OFC  TERRA



x00133

#### TECHNICAL DATA

Construction:	(N)YM-(ST)-J
Jacket material:	PVC, flame-retardant and self-extinguishing pursuant to VDE 0482-332-1-2 / IEC 60332-1
Inner conductor:	Solid Cu wire
Conductor insulation:	PVC, TII pursuant to DIN VDE 0281, wire color pursuant to DIN VDE 0293
Shielding:	AL/PT foil + tinned drain wire
Temperature range:	-40 °C ... +70 °C (immobile) +5 °C...+70 °C (moving)
Jacket color:	■ gray (RAL 7035)
Packaging, P.U.:	Cable bulkware

#### ELECTRICAL DATA

Insulation resistance/km:	>20 MΩ
Operating/rated voltage:	350/500 V
Test voltage:	2000 V

(N)YM-(ST)-J Inner conductor from 1.5 mm<sup>2</sup> - 10.0 mm<sup>2</sup>

**ORDER No.: 720-0056-.....**

Available cables see price list or under  
www.shop.sommercable.com



## CONTROL CABLE (LIY-CY)

PURSUANT TO DIN VDE 0245, 0812; FLEXIBLE, EMC – OVERALL CU MESH, SELF-EXTINGUISHING AND FLAME-RETARDANT PURSUANT TO DIN EN 60332-1-2

### SC-CONTROL FLEX

MOBILE  STUDIO  INSTALL  ELA  
 ANALOG  OFC

#### TECHNICAL DATA

Construction:	LIY-CY
Jacket:	PVC, self-extinguishing and flame-retardant
Cu-Litze per Ader:	pursuant to DIN VDE 0295, class 5
Conductor insulation:	PVC, self-extinguishing and flame-retardant
Shielding:	Tinned Cu mesh
Optical coverage:	90 %
Temperature range:	-40 °C...+80 °C (immobile bewegt) -10 °C...+70 °C (moving)
Jacket color:	■ gray (RAL 7032)
Packaging, P.U.:	100/500 m (328/1.640 ft.) reel



x00134

#### ELECTRICAL DATA

Wire/wire capacitance / m:	120 pF
Wire/screen capacitance / m:	240 pF
Conductor resistance / km:	<138 Ω
Insulation resistance / km:	>200 MΩ
Operating voltage:	350 V / 500 V (>0.25 mm <sup>2</sup> )
Test voltage at 50 Hz:	1500 V (wire/wire) 1000 V (wire/screen)

LIY-CY inner conductor from 0.14 mm<sup>2</sup> - 0,75 mm<sup>2</sup>

**ORDER No.: 380-0056-.....**

Available cables see price list or under  
www.shop.sommercable.com



# CONNECTORS



Simply good vibes.



[www.sommercable.com](http://www.sommercable.com)



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DAMAR® HAGEN

FCT

HICON  
CONNECTORS

IME

MENNEKES®  
Plugs for the world

NEUTRIK

REAN®

[others]

Telegärtner

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# NEUTRIK

There's probably not much more to say about **NEUTRIK**, these connecting systems are known the world over for their superb quality. A true legend is the reliable XLR connecting system of the NC-Series. **SOMMER CABLE** supplies the entire **NEUTRIK** range. On the following pages you will find a compendium of the most common connectors.

The products labelled with **SYSBOXX** logo match our modular **SYSBOXX**, **SYSFLOOR**, **SYSWALL**, **SYSDESK**, and **SYSTRUNK** systems – please go to the "Modular Systems" section.



**Order code:**

<b>N</b>	Neutrik
<b>C</b>	Connector XLR, adapter, plug, jack, loudspeaker, BNC
<b>3</b>	Number of pins
<b>F</b>	Gender (Male/Female)
<b>A</b>	Series (P, A, B, D, DL, X, EZ, RC, AZ, XX)
<b>H</b>	Connecting style (horizontal, vertical)
<b>B</b>	Black housing, gold-plated contacts
<b>BAG</b>	Black housing, silver-plated contacts (AG)

- More mating cycles due to hard gold-plating
- Machined FX contacts
- 270°C / 518°F High Temp insulation
- Velvet Chrome high-end finish
- Even lower contact resistance
- Digital capable due to lesser vibration contact
- EMC: optimum protection against HF interference

Neutrik ▶ Audio ▶ **XLR CONNECTORS**

OTHER SUPPLIERS:  
SEE SUMMARY AT BEGINNING OF CHAPTER

CONNECTORS



**DESCRIPTION**

Silver-plated pins, 3-pol, white

**ORDER NO. male**

**1 NC3MXX-WT**

**ORDER NO. female**

**2 NC3FXX-WT**



Silver-plated pins, 3-pol, nickel

**3 NC3MXX**

**4 NC3FXX**

Silver-plated pins, 3-pol, black

**NC3MXX-BAG**

**NC3FXX-BAG**

Silver-plated pins, 4-pol, nickel

**NC4MXX**

**NC4FXX**

Silver-plated pins, 4-pol, black

**NC4MXX-BAG**

**NC4FXX-BAG**

Silver-plated pins, 5-pol, nickel

**NC5MXX**

**NC5FXX**

Silver-plated pins, 5-pol, black

**NC5MXX-BAG**

**NC5FXX-BAG**

Silver-plated pins, 7-pol, nickel

**NC7MXX**

**NC7FXX**

Silver-plated pins, 7-pol, black

**NC7MXX-BAG**

**NC7FXX-BAG**



Gold-plated pins, 3-pol, black

**5 NC3MXX-B**

**6 NC3FXX-B**

Gold-plated pins, 5-pol, black

**NC5MXX-B**

**NC5FXX-B**

Gold-plated pins, 7-pol, black

**NC7MXX-B**

**NC7FXX-B**



Silver-plated pins, angled, 3-pol, nickel

**7 NC3MRX**

**8 NC3FRX**

Silver-plated pins, angled, 3-pol, black

**NC3MRX-BAG**

**NC3FRX-BAG**

Silver-plated pins, angled, 3-pol, black

**NC3MRX-B**

**NC3FRX-B**

Silver-plated pins, angled, 5-pol, nickel

**NC5MRX**

**NC5FRX**

Silver-plated pins, angled, 7-pol, nickel

**NC7MRX**

**NC7FRX**

Exklusive with **SOMMER**  **CABLE**  
**SERIE NC3-...SOM** — now also EMC!



**DESCRIPTION**

Hard gold-plated machined contacts, Velvet Chrome housing, High Temp insulation, 3-pol, nickel

**ORDER NO. male**

**9 NC3MX-SOM**

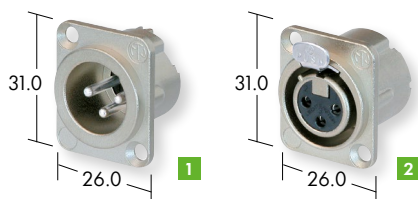
**ORDER NO. female**

**10 NC3FX-SOM**

Hard gold-plated machined contacts, Velvet Chrome housing, High Temp insulation, full HF shielding, 3-pol, nickel

**11 NC3MXX-EMC-SOM**

**12 NC3FXX-EMC-SOM**

Neutrik ▶ Audio ▶ **XLR INSTALLATION CONNECTORS**OTHER SUPPLIERS:  
SEE SUMMARY AT BEGINNING OF CHAPTER**SYS BOXX** **D**

x00149

**DESCRIPTION**

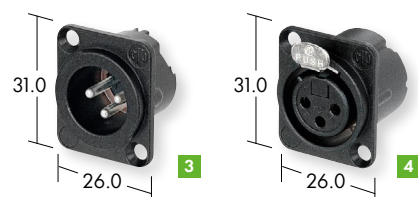
Silver-plated pins, (male with duplex ground contact), 3-pol, Nickel

Silver-plated pins, (male with duplex ground contact), 5-pol, Nickel

Silver-plated pins, M3 version, 3-pol, Nickel

Silver-plated pins, M3 version, 5-pol, Nickel

Silver-plated pins, HE version, 3-pol, Velvet chrome

**ORDER NO. male****ORDER NO. female**1 **NC3MDLX**2 **NC3FDLX****NC5MDLX****NC5FDLX****NC3MDLX-M3****NC3FDLX-M3****NC5MDLX-M3****NC5FDLX-M3****NC3MDLX-HE****NC3FDLX-HE****SYS BOXX** **D**

x00150

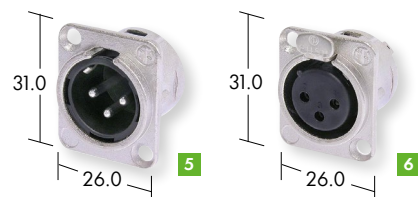
**DESCRIPTION**

Silver-plated pins, (male with duplex ground contact), 3-pol, Black

Silver-plated pins, (male with duplex ground contact), 5-pol, Black

Gold-plated pins, 3-pol, Black

Gold-plated pins, 5-pol, Black

**ORDER NO. male****ORDER NO. female**3 **NC3MDLX-BAG**4 **NC3FDLX-BAG****NC5MDLX-BAG****NC5FDLX-BAG****NC3MDLX-B****NC3FDLX-B****NC5MDLX-B****NC5FDLX-B****SYS BOXX** **D**

x00151

**DESCRIPTION**

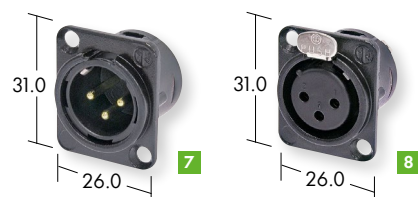
Silver-plated pins, 3-pol, Nickel

Silver-plated pins, 3-pol, Black

Silver-plated pins, 4-pol, Nickel

Silver-plated pins, 5-pol, Nickel

Silver-plated pins, 7-pol, Nickel

**ORDER NO. male****ORDER NO. female**5 **NC3MDL1**6 **NC3FDL1****NC3MDL1-BAG****NC3FDL1-BAG****NC4MDL1****NC4FDL1****NC5MDL1****NC5FDL1****NC7MDL1****NC7FDL1****SYS BOXX** **D**

x00152

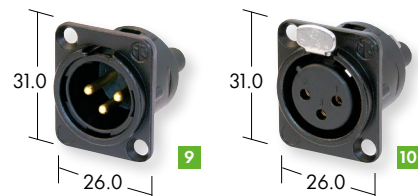
**DESCRIPTION**

Gold-plated pins, 3-pol, Black

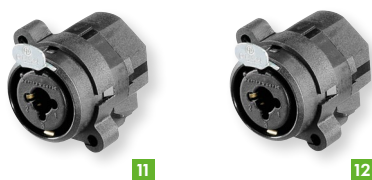
Gold-plated pins, 4-pol, Black

Gold-plated pins, 5-pol, Black

Gold-plated pins, 7-pol, Black

**ORDER NO. male****ORDER NO. female**7 **NC3MDL1-B**8 **NC3FDL1-B****NC4MDL1-B****NC4FDL1-B****NC5MDL1-B****NC5FDL1-B****NC7MDL1-B****NC7FDL1-B****SYS BOXX** **D**

x00154

**DESCRIPTION**With screw terminal for cable cross-sections of 0.14 mm<sup>2</sup> – 0.5 mm<sup>2</sup>  
Gold-plated pins, 3-pol, Black**ORDER NO. male****ORDER NO. female**9 **NC3MDS1-B**10 **NC3FDS1-B****SYS BOXX**

x00155

**XLR/phono jack combo panel-mount jack**

Plastic housing, black

**DESCRIPTION**

3-pole female, nickel-plated, Solder

3-pole female, nickel-plated, Print H

3-pole female, nickel-plated, Print V

**ORDER NO. mono****ORDER NO. stereo**11 **NCJ5FIS**12 **NCJ6FIS****NCJ5FIH****NCJ6FIH****NCJ5FIV****NCJ6FIV**



Neutrik ▶ Audio ▶ **TOP SERIES XLR CONNECTORS**

**NEUTRIK**



Simply good vibes.

CONNECTORS

*Off into the pampas ...*

people often take their technical gear. Increasingly growing demands on connection systems also challenge connectors, among other things, which are resistant to environmental impacts and suitable for applications where **tough wear** or **harsh environment** occur. Neutrik has accepted the challenge and developed the new **TOP series** for demanding outdoor applications. Here TOP stands for »**TRUE OUTDOOR PROTECTION**«. The new product line contains the widespread powerCON TRUE1, EtherCON, and XLR series. The extremely rugged connectors do not only offer **IP65 protection**, but also have a UV resistance pursuant to **UL50E**.



**TRUE OUTDOOR PROTECTION** NEW

**HICON** also offers budget XLR cable plugs and sockets with **IP67** protection class – compatible to the NEUTRIK panel variants.

More out- and indoor connectors can be found on the following pages and on our website under [www.sommercable.com](http://www.sommercable.com)

**XLR, TOP series, IP65 & UL50E, gold-plated contacts**

The weather-proof XLR TOP family of connectors comprises 3- and 5-pole D-format installation connectors with solder tags as well as cable plugs and sockets. All XLR variants of the TOP series are **IP65** sealed and protected.

To protect the connectors from dust and dirt when unplugging, optional dust caps are available.

Polyamide housing black, 3-pole or 5-pole, standard strain relief for cable Ø 5 to 8 mm, Suitable cable: SC-AQUA MARINEX MIKRO



**SYS BOXX** D

DESCRIPTION	ORDER NO. male	ORDER NO. female
Cable connectors, metal housing, gold-plated contacts, 3-pole	<b>1 NC3MX-TOP</b>	<b>2 NC3FX-TOP</b>
Cable connectors, metal housing, gold-plated contacts, 5-pole	<b>NC5MX-TOP</b>	<b>NC5FX-TOP</b>
Panel-mount connectors, polyamide housing black, gold-plated contacts, 3-pole	<b>3 NC3MDX-TOP</b>	<b>4 NC3FDX-TOP</b>
Panel-mount connectors, polyamide housing black, gold-plated contacts, 5-pole	<b>NC5MDX-TOP</b>	<b>NC5FDX-TOP</b>
Dust cap for panel-mount connectors	<b>5 SCMDX-TOP</b>	<b>SCFDX-TOP</b>





Neutrik ▶ Data ▶ **RJ45 TOP series**

CONNECTORS

**NEUTRIK**EtherCON® panel-mount socket,  
Fig. closed**TRUE  
OUTDOOR  
PROTECTION** NEW**EtherCON® TOP series**

Robust, lockable RJ45 connector system pursuant to **IP65 & UL50E**, optimized for pro audio, video, and lighting network applications. Available are a connector housing, which turns conventional RJ45 plugs into an extremely robust, outdoor protected solution, as well as diverse installation connectors. These are shaped in such a way that they fit into standardized panels of the entertainment industry. The D series has the most robust design of the EtherCON® series and is perfectly suitable for the installation in connection panels and for applications in the installation sector.



\*RJ45 connector not included



x01636

**DESCRIPTION**

- |   | DESCRIPTION  | ORDER NO.                                  |
|---|--|--|
| 1 | EtherCON® connector housing <b>IP65 &amp; UL50E</b> matches common RJ45 plugs*<br>Collet strain relief for cable diameters 5 to 8 mm, <b>male</b>            | <b>NE8MX-TOP</b>                           |
| 2 | EtherCON® panel-mount socket, D-flange format, circuit board assembly, max. board thickness 4 mm, <b>IP65 &amp; UL50E</b> in connection with closed dust cap | <b>NE8FDV-TOP</b><br><b>NE8FDH-C5E-TOP</b> |
| 3 | Patch version  | <b>NE8FDP-TOP</b>                          |

print V

print H

Neutrik ▶ Data ▶ **RJ45**

**NEUTRIK**

The EtherCON by NEUTRIK offers optimal protection due to its robust XLR design housing. Perfect for the mobile use of network and media technologies. **Immediately available for DIY assembly including RJ45 connector.** The panel socket has a special locking A or D shape housing. The housing of the NE8MC is simply fastened around a ready-made RJ45 patch cable. The NE8MC1 has been designed for direct mounting to the LAN cable while at the same time finishing the RJ45 connector. The panel-mount sockets are available in a patch version, print version, with standard

clamping/cutting technology or in CAT.6 standard (IP65) for data rates of up to 10 GBit. The connector is supplied with a black cap and black color grommet. Color-coded caps and covers are available in 9 different colors and must be ordered separately – see color coding NEUTRIK audio connectors some pages further ahead. **Suitable fastening screws for NE8FA can be found under "Modular Systems > SYSBOXX screwkits". Flush-mount installation is possible in a recessed depth of 2.5 mm (0.098") (Order No. S-3X8S-I-ASCREW).**



\* RJ45 connector not included

	DESCRIPTION	ORDER NO.
1	RJ45 protective sleeve – <b>for subsequent assembly*</b> (Matching color grommets see following pages) <b>male, black</b>	<b>NEW</b> NE8MX-B
	RJ45 protective sleeve – <b>for subsequent assembly*</b> <b>male, nickel</b>	<b>NEW</b> NE8MX
2	RJ45 protective sleeve – <b>assembly while finishing*</b> (Matching color grommets see following pages) <b>male, black</b>	<b>NEW</b> NE8MX1-B
	RJ45 protective sleeve – <b>assembly while finishing*</b> <b>male, nickel</b>	<b>NEW</b> NE8MX1

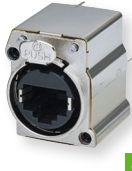
**SYS BOXX** | **D**

**SYS BOXX** | |



**SYS BOXX** | |

**SYS BOXX** | |



	DESCRIPTION	ORDER NO.
	RJ45-Panel socket, contacts gold-plated, patch version, D shape <b>female, black</b>	NE8FDP-B
3	<b>female, nickel</b>	NE8FDP
	RJ45-Panel socket, contacts gold-plated, <b>PCB horizontal, A shape</b>	
4	<b>female, black</b>	NE8FAH
	<b>female, CAT.5e, black</b>	NE8FAH-C5
	RJ45-Panel socket, contacts gold-plated, <b>PCB vertical, A shape</b>	
	<b>female, black</b>	NE8FAV
	<b>female, CAT.5e, black</b>	NE8FAV-C5
	RJ45-Panel socket, contacts gold-plated, <b>PCB horizontal, B shape</b>	
	<b>female, nickel</b>	NE8FBH
5	<b>female, CAT.5e, nickel</b>	NE8FBH-C5
	<b>female, CAT.5e, shielded, nickel</b>	NE8FBH-C5-S
	<b>female, CAT.5e, LED, nickel</b>	NE8FBH-C5-LED
	RJ45-Panel socket, contacts gold-plated, <b>PCB vertical, B shape</b>	
	<b>female, nickel</b>	NE8FBV
	<b>female, CAT.5e, nickel</b>	NE8FBV-C5
	<b>female, CAT.5e, LED, nickel</b>	NE8FBV-C5-LED
6	<b>female, CAT.5e, LED, shielded, nickel</b>	NE8FBV-C5-LED-S

Neutrik ▶ Data ▶ **RJ45 CAT.6A**

In compliance with ISO/IEC 11801, TIA/EIA 568-C.2 downward compatible with EtherCON CAT.5



	DESCRIPTION	ORDER NO. nickel	ORDER NO. black
7	Cable plug, EtherCON CAT.6A for cable diameters 7 – 9,5 mm (Matching color grommets see following pages) <b>AWG24–AWG22, male</b>	<b>NEW</b> NE8MX6	NE8MX6-B
	<b>AWG27/7–AWG24/1, male</b>	NE8MX6-T	NE8MX6-B-T

**SYS BOXX** | **D**



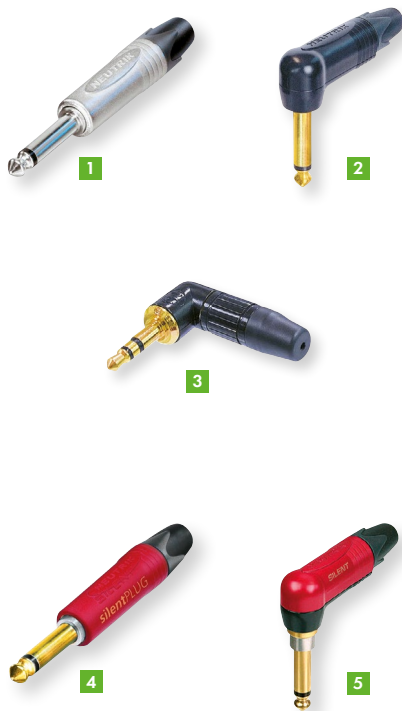
	DESCRIPTION	ORDER NO. nickel	ORDER NO. black
8	Panel socket, EtherCON CAT.6A, patch version, D shape, <b>female</b>	NE8FDX-P6	NE8FDX-P6-B
	Panel socket, EtherCON CAT.6A, clamping/cutting, D shape <b>female</b>	NE8FDX-Y6	<b>NEW</b> NE8FDX-Y6-B
10	Panel socket, EtherCON CAT.6A, with rubber gasket IP65 (plugged state), D shape, <b>female, patch</b>	-	NE8FDX-P6-W
	D-Flansch, <b>female</b> , clamping/cutting	-	NE8FDX-Y6-W

CONNECTORS



Neutrik ▶ Audio ▶ **PHONE PLUGS AND JACKS**

x00176

**Cable plugs****DESCRIPTION**

		<b>ORDER NO. nickel</b>	<b>ORDER NO. black</b>
6.3 mm, contacts nickel-plated	2-pole male	<b>1 NP2X</b>	<b>NP2X-BAG</b>
	3-pole male	<b>NP3X</b>	<b>NP3X-BAG</b>
6.3 mm, contacts gold-plated	2-pole male	-	<b>NP2X-B</b>
	3-pole male	-	<b>NP3X-B</b>
6.3 mm, contacts nickel-plated, jumbo PLUG Cable-Ø 10 mm	2-pole male	<b>NP2XL</b>	-
6.3 mm, contacts nickel-plated, angled	2-pole male	<b>NP2RX</b>	<b>2 NP2RX-BAG</b>
	3-pole male	<b>NP3RX</b>	<b>NP3RX-BAG</b>
6.3 mm, contacts gold-plated, angled	2-pole male	-	<b>NP2RX-B</b>
	3-pole male	-	<b>NP3RX-B</b>
3.5 mm, contacts nickel-plated, angled	3-pole male	<b>NTP3RC</b>	-
3.5 mm, contacts gold-plated, angled	3-pole male	-	<b>3 NTP3RC-B</b>

**DESCRIPTION**

		<b>ORDER NO. red</b>	<b>ORDER NO. Grommet</b>
6.3 mm, contacts gold-plated, with magnetic switch; for cable-Ø 4 – 7 mm	2-pole male	<b>4 NP2X-AU-SILENT</b>	-
Grommet for cable-Ø 6 – 8.2 mm		-	<b>BPX-L</b>
6.3 mm, contacts gold-plated, angled with magnetic switch; for cable-Ø 4 – 7 mm	2-pole male	<b>5 NP2RX-AU-SILENT</b>	-
Grommet for cable-Ø 6 – 8.2 mm		-	<b>BPX-L</b>

**Socket**

x01332

**DESCRIPTION**

		<b>ORDER NO. nickel</b>	<b>ORDER NO. black</b>
6.3 mm, Cable socket, contacts silver-plated	3-pole female	<b>6 NJ3FC6</b>	<b>NJ3FC6-BAG</b>
6.3 mm, Panel-mount socket, contacts silver-plated	3-pole female	<b>7 NJ3FP6C</b>	<b>NJ3FP6C-BAG</b>
6.3 mm, Panel-mount socket, contacts gold-plated	3-pole female	-	<b>NJ3FP6C-B</b>
6.3 mm, Panel-mount socket, contacts silver-plated (plastic housing)	3-pole female	-	<b>8 NJ3FP6P-BAG</b>



Neutrik ▶ Audio ▶ **speakON**

Tried and true and very robust 2 to 8-pole loudspeaker connectors with bayonet lock. Plug and socket are shock-proof insulated according to IEC65/348. The cable is connected via screw terminals.

**NEUTRIK**



**Exclusive with SOMMER CABLE**



We recommend using NLFASSTON cable socket receptacles (see shop or price list).

DESCRIPTION	CONTACTS	ORDER NO.
In-line jack <b>with transparent ring</b>	2-pole female	<b>1 NL2FX-SOM-D*</b>
Bulk material w/o wire protection; PU 50 pcs.; > 1000 W/ Rated current 40 A	4-pole female	<b>2 NL4FX-SOM-D*</b>
	* while stocks last	

DESCRIPTION	COLOR	ORDER NO.
<b>3</b> Color code rings, suitable for NL2FX-SOM-D, NL4FX-SOM-D	Blue	<b>HI-SP-BL</b>
	Yellow	<b>HI-SP-GE</b>
	Green	<b>HI-SP-GN</b>
	Orange	<b>HI-SP-OR</b>
	Red	<b>HI-SP-RT</b>
	Violet	<b>HI-SP-VI</b>



DESCRIPTION	CONTACTS	ORDER NO.
<b>4</b> In-line jack with, > 1000 W/ Rated current 40 A	2-pole female	<b>NL2FX</b>
<b>5</b> In-line jack with, Rated current 30 A	4-pole female	<b>NL4FC</b>
In-line jack with, > 1000 W/ Rated current 40 A	4-pole female	<b>NL4FX</b>
<b>6</b> In-line jack with, > 1000 W, angled	4-pole female	<b>NL4FRX</b>
<b>7</b> In-line jack with	8-pole female	<b>NL8FC</b>

**SYS BOXX D**



**SYS BOXX D**

DESCRIPTION	CONTACTS	ORDER NO.
<b>8</b> Male panel-mount connectors	2-pole male	<b>NL2MPXX</b>
<b>9</b> Male panel-mount connectors	4-pole male	<b>NL4MPXX</b>
• Print H, grey	4-pole male	<b>NL4MDXXH-3</b>
• Print V, black	4-pole male	<b>NL4MDXXV</b>
• High current	4-pole male	<b>NL4MPXX-UC</b>
• with screw contacts	4-pole male	<b>NL4MP-ST</b>
<b>10</b> Male panel-mount connectors	4-pole male	<b>NL4MPRXX</b>
<b>11</b> Male panel-mount connectors	8-pole male, nickel	<b>NL8MPRXX</b>
	8-pole male	<b>NL8MPRXX-BAG</b>



**SYS BOXX**



**SYS BOXX**

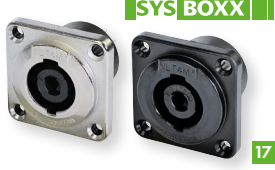


DESCRIPTION	CONTACTS	ORDER NO.
<b>12</b> In-line jacks, Metal housing, dust- and splashproof, IP54	4-pole female, nickel	<b>NLT4FXX</b>
	4-pole female, black	<b>NLT4FXX-BAG</b>
<b>13</b> In-line jacks, Metal housing, protected against dust and dripping water, IP52	8-pole female, nickel	<b>NLT8FXX</b>
	8-pole female, black	<b>NLT8FXX-BAG</b>
<b>14</b> In-line male connectors, Metal housing, dust- and splashproof, IP54	4-pole male, nickel	<b>NLT4MXX</b>
	4-pole male, black	<b>NLT4MXX-BAG</b>
<b>15</b> In-line male connectors, Metal housing, protected against dust and dripping water, IP52	8-pole male, nickel	-
	8-pole male, black	<b>NLT8MXX-BAG</b>

**SYS BOXX**



**SYS BOXX**



DESCRIPTION	CONTACTS	ORDER NO.
<b>16</b> Installation socket, Metal housing, dust- and splashproof, IP54	4-pole female, nickel	<b>NLT4FPXX</b>
	4-pole female, black	<b>NLT4FPXX-BAG</b>
<b>17</b> Male panel-mount connectors, Metal housing, dust- and splashproof, IP54	4-pole male, nickel	<b>NLT4MPXX</b>
	4-pole male, black	<b>NLT4MPXX-BAG</b>
	matching gasket	<b>SCNLT</b>
<b>18</b> Installation socket, Metal housing, protected against dust and dripping water, IP52	8-pole female, black	<b>NLT8FPXX-BAG</b>
<b>19</b> Male panel-mount connectors, Metal housing, protected against dust and dripping water, IP52	8-pole female, nickel	<b>NLT8MPXX</b>
	8-pole male, black	<b>NLT8MPXX-BAG</b>



CONNECTORS

REAN – a brand of the Neutrik group.

The REAN product range is the alternative solution for cost-sensitive applications in the field of professional audio/lighting and digital signage technology. It stands out by an excellent price/performance ratio, a robust design and dependable functionality, made possible due to the parent company's long years of know-how and the production on state-of-the-art equipment. An efficient logistics system and a global distribution network enable high availability and short delivery times.



REAN®

THE SMART WAY TO CONNECT

CONNECTORS

REAN ▶ Audio ▶ XLR CONNECTORS IP65

NEW



IP65



x01723

DESCRIPTION

Cable connectors, gold-plated pins, 3-pole, black

ORDER NO.  
male

1 R-RCX3M-Z-002

ORDER NO.  
female

2 R-RCX3F-Z-002



IP65



x01724

DESCRIPTION

Panel-mount connectors, gold-plated pins, 3-pole, black

ORDER NO.  
male

3 R-RRX3M-Z-002

ORDER NO.  
female

4 R-RRX3F-Z-002

REAN ▶ Audio ▶ MINI XLR CONNECTORS

NEW



MINI-XLR, gold-plated contacts

Black metal housing  
Cable diameter: 2.0 - 4.5 mm



x01725

DESCRIPTION

Gold-plated pins, 3-pole  
Gold-plated pins, 4-pole  
Gold-plated pins, 5-pole

ORDER NO.  
male

5 R-RT3MC-B

7 R-RT4MC-B

9 R-RT5MC-B

ORDER NO.  
female

6 R-RT3FC-B

8 R-RT4FC-B

10 R-RT5FC-B

REAN ▶ Audio ▶ JACK CONNECTORS



DESCRIPTION

6.3 mm jack, housing / nickel-plated contacts  
 6.3 mm jack, housing / nickel-plated contacts  
 6.3 mm jack, black housing / gold-plated contacts

ORDER NO. mono	ORDER NO. stereo
1 NYS201	2 NYS202
3 R-RP2C <b>NEW</b>	-
4 R-RP2C-B <b>NEW</b>	5 R-RP3C-B <b>NEW</b>

REAN ▶ Audio ▶ MINI JACK CONNECTORS



DESCRIPTION

3.5 mm jack, housing / nickel-plated contacts  
 3.5 mm jack, black housing / gold-plated contacts

ORDER NO. mono	ORDER NO. stereo
-	6 NYS231
7 NYS226BG <b>NEW</b>	8 NYS231BG



DESCRIPTION

3.5 mm cable socket, housing / nickel-plated contacts, max. cable diameter 4.0 mm  
 3.5 mm cable socket, housing / nickel-plated contacts, max. cable diameter 6.0 mm  
 3.5 mm cable socket, black housing / gold-plated contacts, max. cable diameter 4.0 mm

ORDER NO. stereo
9 NYS240
NYS240L <b>NEW</b>
10 NYS240BG

REAN ▶ Audio ▶ RCA CONNECTORS



DESCRIPTION

Cable plugs, contacts nickel-plated, 2-pole male  
 Cable plugs, gold-plated contacts, 2-pole male

ORDER NO. nickel	ORDER NO. black
11 NYS352	-
-	12 NYS352BG



DESCRIPTION

Cable plugs, gold-plated contacts, 2-pole male  
 ■ color-coded blue  
 ■ color-coded green  
 ■ color-coded red  
 ■ color-coded black

ORDER NO. black
NYS373-6
NYS373-5
13 NYS373-2
14 NYS373-0

REAN ▶ Audio ▶ **SPEAKER CONNECTORS**

NEW

**DESCRIPTION**

- 1 Cable socket, 4-pole, locking, collet strain relief  
2 Panel-mount plug, 4-pole, D-flange

**ORDER NO.**

R-RLS4FC  
R-RLS4MPZ

REAN ▶ Audio ▶ **MIDI****DESCRIPTION**

MIDI cable plug, contacts silver-plated, 5-pole male

**ORDER NO.**

NYS322

**DESCRIPTION**

MIDI Mounting socket, contacts silver-plated, 5-pole female  
D-flange version see chapter "HICON Connectors"

**ORDER NO.**

NYS325

REAN ▶ Power ▶ **LOAD CONNECTORS**

NEW

**DESCRIPTION**

- 3 Cable socket, 3-pole, live / power outlet, IP65  
4 Cable plug, 3-pole, voltage receiving / power inlet, IP65

**ORDER NO.**

R-RCAC3F-X-000  
R-RCAC3M-X-000

**DESCRIPTION**

- 5 Panel-mount socket, 3-pole, live / power outlet, IP65  
6 Panel-mount plug, 3-pole, voltage receiving / power inlet, IP65

**ORDER NO.**

R-RRAC3F-X-000  
R-RRAC3M-X-000

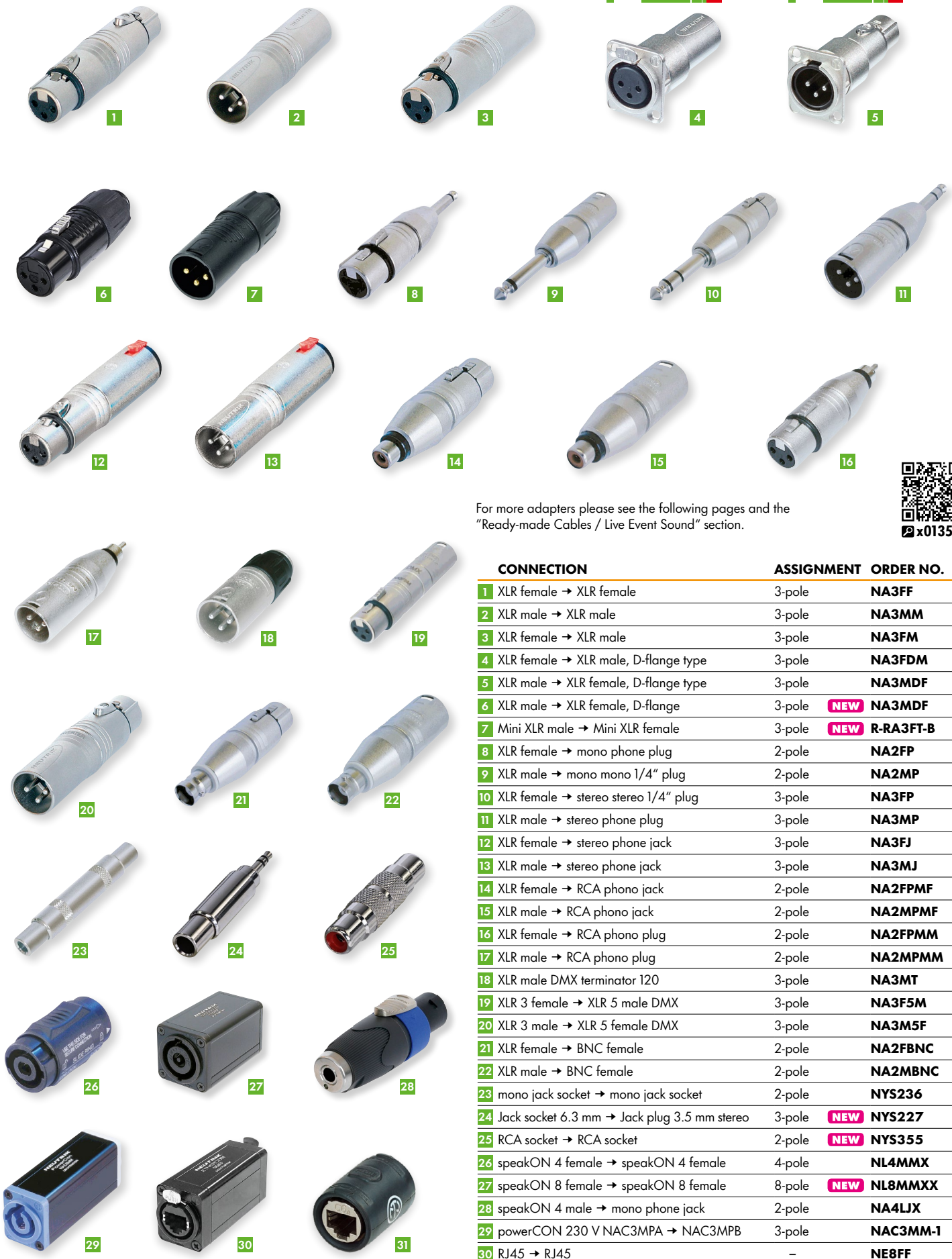


Neutrik ▶ Audio + Video ▶ **ADAPTERS**

**NEUTRIK**

SYS BOXX D

SYS BOXX D



For more adapters please see the following pages and the "Ready-made Cables / Live Event Sound" section.



CONNECTION	ASSIGNMENT	ORDER NO.
1 XLR female → XLR female	3-pole	NA3FF
2 XLR male → XLR male	3-pole	NA3MM
3 XLR female → XLR male	3-pole	NA3FM
4 XLR female → XLR male, D-flange type	3-pole	NA3FDM
5 XLR male → XLR female, D-flange type	3-pole	NA3MDF
6 XLR male → XLR female, D-flange	3-pole	<b>NEW</b> NA3MDF
7 Mini XLR male → Mini XLR female	3-pole	<b>NEW</b> R-RA3FT-B
8 XLR female → mono phone plug	2-pole	NA2FP
9 XLR male → mono mono 1/4" plug	2-pole	NA2MP
10 XLR female → stereo stereo 1/4" plug	3-pole	NA3FP
11 XLR male → stereo phone plug	3-pole	NA3MP
12 XLR female → stereo phone jack	3-pole	NA3FJ
13 XLR male → stereo phone jack	3-pole	NA3MJ
14 XLR female → RCA phono jack	2-pole	NA2FPMF
15 XLR male → RCA phono jack	2-pole	NA2MPMF
16 XLR female → RCA phono plug	2-pole	NA2FPMF
17 XLR male → RCA phono plug	2-pole	NA2MPMF
18 XLR male DMX terminator 120	3-pole	NA3MT
19 XLR 3 female → XLR 5 male DMX	3-pole	NA3F5M
20 XLR 3 male → XLR 5 female DMX	3-pole	NA3M5F
21 XLR female → BNC female	2-pole	NA2FBNC
22 XLR male → BNC female	2-pole	NA2MBNC
23 mono jack socket → mono jack socket	2-pole	NYS236
24 Jack socket 6.3 mm → Jack plug 3.5 mm stereo	3-pole	<b>NEW</b> NYS227
25 RCA socket → RCA socket	2-pole	<b>NEW</b> NYS355
26 speakON 4 female → speakON 4 female	4-pole	NL4MMX
27 speakON 8 female → speakON 8 female	8-pole	<b>NEW</b> NL8MMXX
28 speakON 4 male → mono phone jack	2-pole	NA4LJX
29 powerCON 230 V NAC3MPA → NAC3MPB	3-pole	NAC3MM-1
30 RJ45 → RJ45	-	NE8FF
31 RJ45 → RJ45 10Gbit		<b>NEW</b> NE8FFX6-W

CONNECTORS

Neutrik ▶ **COLOR-CODED**

x01357



1

**1** Code ring for XLR MX, XLR FX

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>XCR1</b>	GN Green	<b>XCR5</b>	GR Grey	<b>XCR8</b>
RT Red	<b>XCR2</b>	BL Blue	<b>XCR6</b>	WS White	<b>XCR9</b>
OR Orange	<b>XCR3</b>	VI Violet	<b>XCR7</b>	SW Black	<b>XCR0</b>
GE Yellow	<b>XCR4</b>				



2

3

**2** Cover cap for XLR MXX, XLR FXX

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>BXX1</b>	GN Green	<b>BXX5</b>	WS White	<b>BXX9</b>
RT Red	<b>BXX2</b>	BL Blue	<b>BXX6</b>	SW Black	<b>BXX0</b>
OR Orange	<b>BXX3</b>	VI Violet	<b>BXX7</b>	SW Black *	<b>BXX-14</b> <b>3</b>
GE Yellow	<b>BXX4</b>	GR Grey	<b>BXX8</b>		

\*for cable diameters ≤ 9,6 mm with collet



4

**4** Code ring for XLR XX-Series/NE8X-Series

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>XXR1</b>	GN Green	<b>XXR5</b>	WS White	<b>XXR9</b>
RT Red	<b>XXR2</b>	BL Blue	<b>XXR6</b>	SW Black	<b>XXR0</b>
OR Orange	<b>XXR3</b>	VI Violet	<b>XXR7</b>	TR Transparent	<b>XXRC</b>
GE Yellow	<b>XXR4</b>	GR Grey	<b>XXR8</b>		



5

**5** Cover cap for phone plug NP2X-/NP3X-Series

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>BPX1</b>	GN Green	<b>BPX5</b>	WS White	<b>BPX9</b>
RT Red	<b>BPX2</b>	BL Blue	<b>BPX6</b>	SW Black	<b>BPX0</b>
OR Orange	<b>BPX3</b>	VI Violet	<b>BPX7</b>	SW Black, for cable diameters ≤ 8 mm	<b>BPX-L</b>
GE Yellow	<b>BPX4</b>	GR Grey	<b>BPX8</b>		



6

**6** Code ring for Klinkenstecker NP-X

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>PXR1</b>	GE Yellow	<b>PXR4</b>	VI Violet	<b>PXR7</b>
RT Red	<b>PXR2</b>	GN Green	<b>PXR5</b>	GR Grey	<b>PXR8</b>
OR Orange	<b>PXR3</b>	BL Blue	<b>PXR6</b>	WS White	<b>PXR9</b>



7

**7** Color grommets for EtherCON MC version

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>BSE1</b>	GN Green	<b>BSE5</b>	GR Grey	<b>BSE8</b>
RT Red	<b>BSE2</b>	BL Blue	<b>BSE6</b>	WS White	<b>BSE9</b>
OR Orange	<b>BSE3</b>	VI Violet	<b>BSE7</b>	SW Black	<b>BSE10</b>
GE Yellow	<b>BSE4</b>				



8

**8** Color grommets for speakON NL4FC

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>BSL1</b>	GN Green	<b>BSL5</b>	GR Grey	<b>BSL8</b>
RT Red	<b>BSL2</b>	BL Blue	<b>BSL6</b>	WS White	<b>BSL9</b>
OR Orange	<b>BSL3</b>	VI Violet	<b>BSL7</b>	SW Black	<b>BSL0</b>
GE Yellow	<b>BSL4</b>				

Neutrik ▶ **COLOR-CODED**



Sample application

**9** Indicator plate for XLR speakON, PowerCon, jack, EtherCon panel-mount sockets

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>DSS1</b>	GN Green	<b>DSS5</b>	GR Grey	<b>DSS8</b>
RT Red	<b>DSS2</b>	BL Blue	<b>DSS6</b>	WS White	<b>DSS9</b>
OR Orange	<b>DSS3</b>	VI Violet	<b>DSS7</b>	SW Black	<b>DSS0</b>
GE Yellow	<b>DSS4</b>				

**10** Color grommets for BNC Rear Twist

COLOR	ORDER NO.	COLOR	ORDER NO.	COLOR	ORDER NO.
BR Brown	<b>BST-BNC1</b>	GN Green	<b>BST-BNC5</b>	WS White	<b>BST-BNC9</b>
RT Red	<b>BST-BNC2</b>	BL Blue	<b>BST-BNC6</b>	SW Black	<b>BST-BNC0</b>
OR Orange	<b>BST-BNC3</b>	VI Violet	<b>BST-BNC7</b>	CY Turquoise	<b>BST-BNCY</b>
GE Yellow	<b>BST-BNC4</b>	GR Grey	<b>BST-BNC8</b>		



x01357

Neutrik ▶ Video ▶ **BNC UHD/HD**

The BNC 75 Ω cable plug with space-saving rotary bayonet lock or as push-pull version is compatible with all common 75 Ω connectors and suitable for HD use (UHD version is marked with “x” at the end). Black sleeve is standard; optional sleeves in 9 different colors must be ordered separately. The 75 Ω BNC female chassis-mount

connectors from Neutrik are suitable for universal panels. They are fitted with gold-plated sockets and PTFE insulation. The solder-free version is simply attached to a BNC patch cable. More Neutrik BNC connectors available on request. For suitable tools see chapter Accessories”.

**Cable plug, rearTWIST, HD/UHD, gold-plated contacts**



x01367

DESCRIPTION	(suitable crimping die)	ORDER NO. nickel
<b>1</b> HD, (Hex 4.06 mm), for cables: Transit Mini Flex, RG179, SC-Monomax, Transit Mini Kombi, Transit Mini Control	(DIE-R-BNC-PDC)	<b>NBTC75BLI4</b>
HD, (Hex 6.47 mm), for cables: SC-Focusline, SC-Altera Split, RG59/U, SC-Classic Control 2075	(DIE-R-BNC-PDC)	<b>NBNC75BLP7</b>
HD, (Hex 7.36 mm), for cables: SC-Vector Plus 1.2/5.0, SC-Vector Plus 1.2/4.8 DZ, Transit MC 3031, Transit MC 3231	(DIE-R-BNC-PU)	<b>NBNC75BWU13</b>
HD, (Hex 10.0 mm), for cables: SC-Vector Plus 1.6L/7.3	(DIE-R-BNC-ZPLUS)	<b>NBLC75BVZ17</b>
<b>2</b> UHD (4K/8K), (Hex 5.0 mm), for cables: SC-Slimline (RCB), Transit Kombi HD, Observer 1 HD, Transit MC 523 HD, Transit MC 8232	(DIE-R-BNCX-PDG)	<b>NBNC75BFG7X</b>
UHD (4K/8K), (Hex 6.47 mm), for cables: SC-Vector 0.8/3.7, Transit 5231 HD	(DIE-R-BNCX-PDG)	<b>NBNC75BLP9X</b>
UHD (4K/8K), (Hex: 7.36 mm) for cables: SC-RG-Classic Broadcast 1.0/4.8	(DIE-BNCX-PU)	<b>NBNC75BTU11X</b>

**Female chassis connectors**

SYS BOXX | D



3

SYS BOXX | D



4



5



x01369



Sample application

DESCRIPTION	ORDER NO. nickel	ORDER NO. black
HD, installation socket, D-format, insulated bushing	<b>3</b> <b>NBB75DFI</b>	<b>NBB75DFIB</b>
UHD 4K/8K, installation socket, D-format, Antraloy coated housing, grounded bushing	-	<b>NBB75DFGX</b>
<b>4</b> UHD 4K/8K, installation socket, D-format, Antraloy coated housing, grounded bushing	-	<b>NEW</b> <b>NBB75DFIX</b>
<b>5</b> BNC solder socket, insulated	<b>NBB75SI</b>	-

CONNECTORS



Neutrik ▶ Power ▶ **powerCON**

**NEUTRIK**

The powerCON connector by Neutrik is a reliable and easy-locking connector with a power handling capacity of **250 V** and **16 A**; **20 A** or **32 A**, respectively, VDE Reg. No. 6360. As touch guard for the panel-mount sockets, we recommend

the SCDR protective cap. In the **TOP** version the series meets the UL50E requirements and is dust-proof and jet water protected from any angle according to IP65.

**SYS BOXX D**

TRUE OUTDOOR PROTECTION

x01638

**NEW TRUE1 TOP / 16 A, UL50E, IP65**

DESCRIPTION	ORDER NO.
1 Line connector/ power outlet: for cable diameters 6 - 12 mm	3-pole cable socket, IP65 <b>NAC3FX-W-TOP</b>
live / power outlet, for large cable diameters 10 - 16 mm:	3-pole cable socket, IP65 <b>NAC3FX-W-TOP-L</b>
2 Chassis connector/ power inlet: for cable diameters 6 - 12 mm:	3-pole cable plug, IP65 <b>NAC3MX-W-TOP</b>
live / power inlet, for large cable diameters 10 - 16 mm:	3-pole cable plug, IP65 <b>NAC3MX-W-TOP-L</b>
3 Chassis connector/ power inlet:	3-pole panel-mount plug, IP65 <b>NAC3MPX-TOP</b>
6 Suitable sealing cap, IP65	<b>SCNAC-MPX-SB</b>
4 Combined power outlet/ power inlet:	3-pole panel-mount socket & plug, IP65 <b>NAC3PX-TOP</b>
	Suitable sealing cap <b>SCNAC-PX</b>
5 Line connector/ power outlet:	3-pole panel-mount socket, IP65 <b>NAC3FPX-TOP</b>
	3-pole panel-mount socket with screw terminal, IP65 <b>NAC3FPX-ST-TOP</b>
	Suitable sealing cap, IP65 <b>SCNAC-FPX-SB</b>

CONNECTORS

**SYS BOXX D**

**System 1 - Power in (blue) / 16 Ampere (according to DIN 60320-1)**

x01378

**NEW System 1 - Power in (blue) / 16 Ampere (according to DIN 60320-1)**

DESCRIPTION	ORDER NO.
7 Line connector/ power outlet, for cable diameter 6-12 mm:	3-pole cable socket <b>NAC3FXXA-W-S</b>
Line connector/ power outlet, for cable diameter 10-16 mm:	3-pole cable socket <b>NAC3FXXA-W-L</b>
8 Chassis connector/ power inlet:	3-pole panel-mount plug <b>NAC3MPXXA</b>

**SYS BOXX D**

**System 2 - Power out (grey) / 16 Ampere (according to DIN 60320-1)**

x01379

**NEW System 2 - Power out (grey) / 16 Ampere (according to DIN 60320-1)**

DESCRIPTION	ORDER NO.
9 Chassis connector/ power inlet, for cable diameter 6-12 mm:	3-pole cable socket <b>NAC3FXXB-W-S</b>
Chassis connector/ power inlet, for cable diameter 10-16 mm:	3-pole cable socket <b>NAC3FXXB-W-L</b>
10 Line connector/ power outlet:	3-pole panel-mount plug <b>NAC3MPXXB</b>

**SYS BOXX D**

**32 Ampere**

x01380

**32 Ampere**

DESCRIPTION	ORDER NO.
11 3-pole cable socket	<b>NAC3FC-HC</b>
12 3-pole panel-mount plug	<b>NAC3MP-HC</b>

Neutrik ▶ **ACCESSORIES**

x01381

Sample application

DESCRIPTION	COLOR	ORDER NO.
13 cover platelet for XLR punchings	■ black	<b>DBA</b>
14 dummy PLUG for XLR panel socket	■ black	<b>NDF</b>
dummy PLUG for XLR panel plug	■ black	<b>NDM</b>
dummy PLUG for ¼" phone jacks	■ black	<b>NDJ</b>
15 alu shape housing 65 mm for D-Series incl. screws	■ black	<b>NA-HOUSING</b>
16 XLR panel plug with flange, suitable for NA-HOUSING/HA-HOUSING	■ black	<b>NM3MD-B</b>
17 XLR panel socket with flange, suitable for NA-HOUSING/HA-HOUSING	■ black	<b>NM3FD-B</b>
18 soft plastic protective cap for panel-mount sockets (powerCON, etc.)	■ black	<b>SCDR</b>
19 M3 assembly frame for all D shape interfaces		<b>MFD</b>
20 D shape gasket against dust and water; also available in red (SCDP2), yellow (...P4), green (...P5), blue (...P6) and white (...P9)	■ black	<b>SCDPO</b>
21 sealing cap against water, dust and dirt; for all D shape panelmount sockets	■ black	<b>SCDX</b>



Neutrik ▶ Data ▶ **DATA+POWER**

**NEUTRIK**

With Ethernet+Power/DMX+Power there are 8 contacts available for data transmission (CAT.5e), and two additional more massive contacts to carry up to 16 amps of power at up to 50 volts – substantially greater capacity than PoE. The 10-pole cable connectors have the design of the well-known XX and RX series equipped with a proven

cable strain relief, a sturdy locking system as well as a dual ground contact. Usable for cable diameters of 8–10 mm / 0.315 – 0.394". The panel-mount connectors are based on the DLX series with a D shell.



**SYS BOXX** | **D**



**DESCRIPTION**

Cable connectors, gold-plated pins, 10-pole  
 Cable connectors, angled, gold-plated pins, 10-pole (not shown)  
 Installation connectors, D-type, gold-plated pins, 10-pole

**ORDER NO. male**

**1** NC10MXX-14-B  
 NC10MRX-14-B  
**3** NC10MDLX-B

**ORDER NO. female**

**2** NC10FXX-14-B  
 NC10FRX-14-B  
**4** NC10FDLX-B

Neutrik ▶ Data ▶ **FIBER**

The chassis installation plug with D-shaped housing serves as a bushing which ensures an easy installation by simply plugging in two or four conventional LC connectors on the rear side. The installation plug has an automatically enabled protection cap with a silicon gasket to protect the fiber in unplugged state from dirt and dust as well as

the proven push-pull locking for a safe connection. Colored gaskets for marking the fiber type are included. Matching connection cables and drum systems can be found in the sections on "Premade Cables" and "Multicore and Splitter Systems".

**SYS BOXX** | **D**



**DESCRIPTION**

**5** Installation socket, black/chrome, 4 solder lugs, LC duplex, front panel mounting  
**6** Installation socket, black/chrome, LC quad, front panel mounting

**ORDER NO.**

**NO2-4FDW-A**  
**NO4-FDW-A**

Neutrik ▶ Video + Audio ▶ **HDMI**

**SYS BOXX** | **D**



Neutrik's HDMI solution for the transmission of digital TV and PC video formats including HDTV; very easy network integration

**DESCRIPTION**

HDMI installation socket patch version, D-format

**ORDER NO. nickel**

**7** NAHDMI-W

**ORDER NO. black**

NAHDMI-W-B

Neutrik ▶ Audio ▶ **D-SUB**

**SYS BOXX** | **D**

**Loop-through chassis-mount socket/plug D-shell**



**DESCRIPTION**

• 9-pole, nickel  
 • 9-pole, black  
 • 15-pole, nickel  
 • 15-pole, black

**ORDER NO. female ↔ female**

**NADB9FF**  
**8** NADB9FF-B  
**NADB15FF**  
**NADB15FF-B**

**ORDER NO. female ↔ male**

**NADB9MF**  
**NADB9MF-B**  
**9** NADB15MF  
**NADB15MF-B**

Neutrik ▶ Data ▶ **USB/FIREWIRE**

The robust **USB** patch socket with D-flange made by NEUTRIK is ideal for the modern media wiring. It can be conveniently adapted in our variable **SYSBOXX** system together with many other audio and video connections.

The USB patch socket is equipped with a USB-A to USB-B insert which can be reverse-mounted by 180°. Moreover, it is fitted with a gasket and a ground connection for shielding purposes. Matching cables with push/pull locking available on request.

**SYS BOXX** | **D**



**DESCRIPTION**

**USB3.0, USB-A to USB-B, 180° rotatable**

**ORDER NO. nickel**

**10** NAUSB3

**ORDER NO. black**

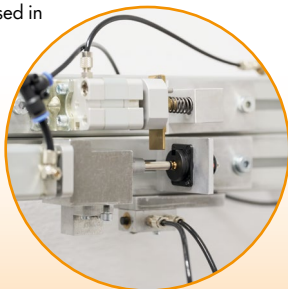
**11** NAUSB3-B

# HICON® CONNECTORS

**HICON** is a German company which produces high-quality connectors and components in Germany, some other European countries as well as in Asia (Taiwan).

**HICON** is regarded as highly innovative, and the company also offers complex custom solutions for the media engineering sector.

**HICON** delivers a huge range of high-quality connectors at fair prices. By the way, the **HICON** connectors are known for their high numbers of mating cycles and easy handling which is why they are already used in countless TV and broadcast stations. To ensure a long-lasting and reliable quality, the mating cycles are tested by means of a special-designed automatic machine made by **SOMMERTECHNIK**.



With transparent code ring for your subsequent individual lettering!



**HICON PRO**  
strain relief



**HICON BASIC** standard  
strain relief systems



CONNECTORS

Before purchasing a connector, you should always make sure to buy brand-name quality because poor connectors often have high contact resistance values and thus dash the benefits of a good cable.

**Make sure to check the following points:**

- a decent gold-plating or coating (cheap connectors often have only a gold-colored lacquer finish!)
- a massive pin with no disruption due to a rivet, pressing etc.
- low contact resistance values



**We grant a 5-year warranty on HICON connectors!**

For more information please visit  
[www.hicon-connectors.com](http://www.hicon-connectors.com)  
[www.hicon-hifi.com](http://www.hicon-hifi.com)

Simply good vibes.

## Simple audio and video connections without soldering ...

this is what the new line of **HICON SCREW & PLAY** connectors has to offer.

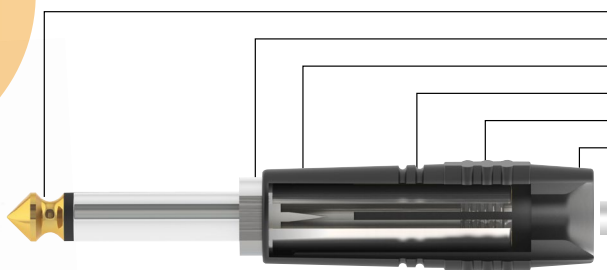
This high-grade series of jack, RCA/phono and BNC connectors is ideal for the individualists, the impatient or the untrained ones among us.

Those who want to assemble or repair a cable on the road in a quick, safe and uncomplicated way will love these sets where in most cases one only needs to strip the cable with a sharp pocket knife. The cable is then plugged into the connector and safely locked by tightening a screw or by a collet strain relief.

Most connectors housings have a groove to attach color code rings for distinction and quick overview.

# SCREW + PLAY

**... for the solderless DIY assembly!**



- Gold tip
- Wrench size 8
- Pin for inner conductor
- Groove for color code rings HI-UC
- Clamp sleeve for shield contact
- Trumpet strain relief

TRICONE XXL



## TRICONE – double crimping is better than single crimping!

A big hand was given to the new mounting system which allows **HICON**-designed jack connectors to be assembled and provided with a dual hex crimping without any solder, gas and almost no significant contact resistances! With a whopping **230 newtons** the **strain relief forces** of this cable/connector combination are far superior to other cable connections.

## Let there be light ...

because our development team has also done an excellent job in terms of optical fibers: the **HICON HI FIBER** connector fits all commercially available fiber optical cables. With a little practice and our toolcase you can even carry out an on-site repair yourself in case of average. Our road-proof **HICON HI FIBER** connection system is based on four optical **LC** fiber lines which are protected by a robust, compact metal housing technology. It consists of a cable plug and an installation socket in the compact D flange format which can also be used as a universal cable coupler for extension (cascading) purposes. The **HI-FIBER4-FD** socket may also be used to connect the **HICON HI FIBER** system with up to four conventional **LC** cables (or else two **LC**-duplex cables) and link it to existing **LC** systems – simply plug in the **LC** and you're ready to go!

The **HICON HI FIBER4-MC** cable plug can be fitted with up to four **-LC** connectors which are assembled after inserting the cable and then plugged into the quad fixture. The seal cap and a spring-loaded protection sleeve save the sensitive fiber system from dirt and damages.

For more information see the following pages "HICON Connectors" or visit [www.sommercable.com](http://www.sommercable.com) or [www.hicon-connectors.com](http://www.hicon-connectors.com)

**HICON**  
CONNECTORS

GAS FREE  
CONNECTION



**HICON** connectors are developed by renowned connector professionals, among these are also members of the **SOMMER CABLE** team who assist with advice and support and lots of experience.



CONNECTORS

## UHD BNC Connectors

The production of top-class high-frequency BNC connectors for the 12G-UHD broadcast transmission is a precision mechanical challenge that only very few makers in the world are up to.

Among other things, **HICON** has specialized in the development and production of these technically demanding connectors and offers a wide range of models which stands out by a high number of mating cycles (>500), a high accuracy of fit and compatibility with other connection systems and cable types. The UHD connectors feature robust, hard gold-plated contacts, self-centering pins and low tolerances. They are easy to work with, antiskid and visually sophisticated.



## HICON NOISEFREE 6.3 mm Jack Plugs

### Here's good news: no more popping noises!

The cracking noise that occurs when plugging in a jack plug can be avoided if you give it an advance ground contact. Thanks to a brief muting at plug-in, those notorious "turn-on pops" and other annoying noises are suppressed.

Not only are they unpleasant to the ears, in the worst case they can even blow out speaker diaphragms. To prevent this from happening, plug the **HICON NOISEFREE** jack plug into the guitar and connect it with a beautiful **SOMMER CABLE** guitar cable of your choice.

For their **NOISEFREE** connectors German manufacturer **HICON** uses a proven system which has been reliably doing its duty for decades: inside the pin a hardened and hard gold-plated spring-loaded steel contact is gliding which is known for its low rate of failures.

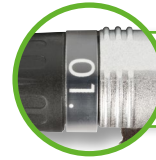
These are available in a straight (**HI-J63M14**) or angled (**HI-J63MA14**) version. The housing is made of sturdy, treadable brass finished in black and has a large cable inlet which can take even very thick guitar cables (max. outside diameter 7 mm). The interior trumpet-shaped milling acts as the sleeve support.



Noisefree  
plugging & unplugging

TOP  
SELLER

**3-pole XLR BASIC,**  
nickel-plated metal housing  
black plastic cap.  
**3-chuck** collet strain relief  
for cable Ø 3.5 to 7.0 mm.



Comes with a clear ring  
that can display your  
custom labelling.

## DESCRIPTION

- 1** 3-pole male. Machined, **silver-plated** contacts  
**2** 3-pole female. **Silver-plated** contacts  
3-pole male. Machined, **gold-plated** contacts  
3-pole female. **Gold-plated** contacts

ORDER NO.  
male  
**HI-X3CM-V**

ORDER NO.  
female  
-

-

**HI-X3CF-V****HI-X3CM-V-G NEW\*****HI-X3CF-V-G NEW\***

**3-pole XLR BASIC,**  
black metal housing  
non-conductive surface  
black plastic cap.  
**3-chuck** collet strain relief  
for cable Ø 3.5 to 7.0 mm.



Comes with a clear ring  
that can display your  
custom labelling.

## DESCRIPTION

- 3** 3-pole male. Machined, **silver-plated** contacts  
**4** 3-pole female. **Silver-plated** contacts  
3-pole male. Machined, **gold-plated** contacts  
3-pole female. **Gold-plated** contacts

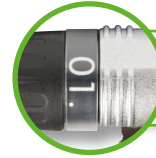
ORDER NO.  
male  
**HI-X3CM-BLK**

ORDER NO.  
female  
-

-

**HI-X3CF-BLK****HI-X3CM-BLK-G NEW\*****HI-X3CF-BLK-G NEW\***

**3-pole XLR PRO,**  
Metal housing matt silver finish  
(velvet chrome), black plastic cap.  
**6-chuck** collet strain relief  
for cable Ø 4,0 bis 8,0 mm.



Comes with a clear ring  
that can display your  
custom labelling.

## DESCRIPTION

- 5** 3-pole male. Machined, **silver-plated** contacts  
**6** 3-pole female. **Silver-plated** contacts

ORDER NO.  
male  
**HI-X3CM**

ORDER NO.  
female  
-

-

**HI-X3CF**

**3-pole XLR PRO,**  
black metal housing  
black plastic cap.  
**6-chuck** collet strain relief  
for cable Ø 4.0 to 8.0 mm.



Comes with a clear ring  
that can display your  
custom labelling.

## DESCRIPTION

- 7** 3-pole male. Machined, **silver-plated** contacts  
**8** 3-pole female. **Silver-plated** contacts

ORDER NO.  
male  
**HI-X3CM-B**

ORDER NO.  
female  
-

-

**HI-X3CF-B**

**3-pole XLR,**  
silver-plated contacts  
black metal housing,  
**90° angled**  
(insert non-rotatable).  
with dual strain relief and replacement  
screw, for cable Ø 6.0 to 8.0mm.



## DESCRIPTION

- 9** 3-pole male. Machined, **silver-plated** contacts  
**10** 3-pole female. **Silver-plated** contacts

ORDER NO.  
male  
**HI-X3RM-M**

ORDER NO.  
female  
-

-

**HI-X3RF-M**



HICON ▶ Audio ▶ HICON XLR CABLE CONNECTORS



The **HICON** connectors are very well received in the audio and industry sector. Our customers value the straightforward design, the high quality and the fair pricing structure.

The "Designed in Germany" XLR connectors of the **PRO** series, the **HI-XCM3** and **HI-XCF3**, are very robust, exceedingly well crafted, have a reliable 6-jaw chuck strain relief and are quick and very easy to solder.

The standard strain relief (for cable Ø from 4.0 mm to 8.0 mm / 0.157" to 0.315") offers important benefits over other systems:

**The strain relief force is about twice as high as in conventional systems, yet the cable is still being protected!**

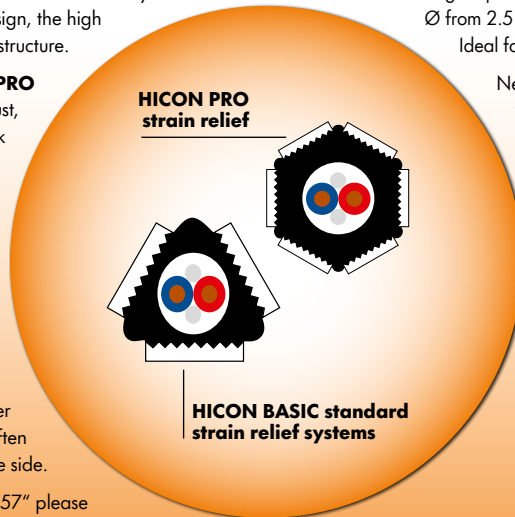
Even with large cable diameters the force of the chuck jaws is spread over a large area, whereas with other connectors the soft PVC of the microphone cable is often squeezed out at the side.

With the gold-plated 3-pin **PRO+** versions, both strain reliefs for cable Ø from 2.5 mm to 8.0 mm / 0.157" to 0.315" are included. Ideal for flexible on-site assembly during installations!

New to our product line are the economically priced, very compact **BASIC** versions **HI-X3CM-V** and **HI-X3CF-V** for the assembly of budget audio cables, featuring a standard 3-jaw chuck strain relief, nickel-plated or black, non-conductive metal shell, a tough plastic cap and a transparent ring for subsequent labelling.

**We offer you a 5-year warranty on HICON XLR connectors.**

A variety of XLR adapters can be found on the following pages under "Audio Adapters"!



For cable diameters < 4 mm / 0.157" please order the **HI-XSR40** strain relief accessory.

Simply good vibes.



**3-pole XLR PRO+, nickel-plated housing black metal cap.**  
6-chuck collet strain relief for cable Ø 4.0 to 8.0 mm.

**Gold-plated version** incl. additional 6-chuck collet strain relief for cable Ø 2.5 to 6.5 mm



Comes with a clear ring that can display your custom labelling.

DESCRIPTION

- 1 3-pole male. Machined, **silver-plated** contacts
- 2 3-pole female. **Silver-plated** contacts
- 3 3-pole male. Machined, **gold-plated** contacts
- 4 3-pole female. **Gold-plated** contacts

ORDER NO. male

ORDER NO. female

1	HI-X3CM-V-M <b>NEW</b> *	-
2	-	HI-X3CF-V-M <b>NEW</b> *
3	HI-X3CM-V-GM <b>NEW</b> *	-
4	-	HI-X3CF-V-GM <b>NEW</b> *



x01737



**3-pole XLR PRO+, black metal housing black metal cap.**  
6-chuck collet strain relief for cable Ø 4.0 to 8.0 mm.

**Gold-plated version** incl. additional 6-chuck collet strain relief for cable Ø 2.5 to 6.5 mm



Comes with a clear ring that can display your custom labelling.

DESCRIPTION

- 5 3-pole male. Machined, **silver-plated** contacts
- 6 3-pole female. **Silver-plated** contacts
- 7 3-pole male. Machined, **gold-plated** contacts
- 8 3-pole female. **Gold-plated** contacts

ORDER NO. male

ORDER NO. female

5	HI-X3CM-M	-
6	-	HI-X3CF-M
7	HI-X3CM-G	-
8	-	HI-X3CF-G



x01738

HICON ▶ Audio ▶ HICON XLR CABLE CONNECTORS

**HICON**  
CONNECTORS



**4-pole XLR PRO+**,  
black **metal housing**,  
black **metal cap**.  
**6-chuck collet** strain relief  
for cable Ø 4.0 to 8.0 mm.

**DESCRIPTION**

- 1 4-pole male. Machined, **gold-plated** contacts
- 2 4-pole female. **Gold-plated** contacts



Comes with a clear ring that can display your custom labelling.

ORDER NO. male	ORDER NO. female
<b>HI-X4CM-G</b>	-
-	<b>HI-X4CF-G</b>



**5-pol XLR BASIC**  
**nickel-plated metal housing**  
black **plastic cap**  
**3-chuck** collet strain relief  
for cable Ø 3.5 to 7.0 mm

**DESCRIPTION**

- 3 5-pole male. Machined, **silver-plated** contacts
- 4 5-pole female. **Silver-plated** contacts
- 5 5-pole male. Machined, **gold-plated** contacts
- 6 5-pole female. **Gold-plated** contacts



Comes with a clear ring that can display your custom labelling.

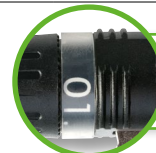
ORDER NO. male	ORDER NO. female
<b>HI-X5CM-V</b> <b>NEW</b> *	-
-	<b>HI-X5CF-V</b> <b>NEW</b> *
<b>HI-X5CM-V-G</b> <b>NEW</b> *	-
-	<b>HI-X5CF-V-G</b> <b>NEW</b> *



**5-pol XLR BASIC**  
black **metal housing**, non-conductive surface  
black **plastic cap**  
**3-chuck** collet strain relief  
for cable Ø 3.5 to 7.0 mm

**DESCRIPTION**

- 5 5-pole male. Machined, **silver-plated** contacts
- 6 5-pole female. **Silver-plated** contacts
- 7 5-pole male. Machined, **gold-plated** contacts
- 8 5-pole female. **Gold-plated** contacts



Comes with a clear ring that can display your custom labelling.

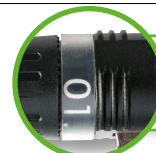
ORDER NO. male	ORDER NO. female
<b>HI-X5CM-BLK</b> <b>NEW</b> *	-
-	<b>HI-X5CF-BLK</b> <b>NEW</b> *
<b>HI-X5CM-BLK-G</b> <b>NEW</b> *	-
-	<b>HI-X5CF-BLK-G</b> <b>NEW</b> *



**5-pol XLR PRO**  
black **metal housing**  
black **plastic cap**  
**6-chuck** collet strain relief  
for cable Ø 4.0 to 8.0 mm

**DESCRIPTION**

- 7 5-pole male. Machined, **silver-plated** contacts
- 8 5-pole female. **Silver-plated** contacts



Comes with a clear ring that can display your custom labelling.

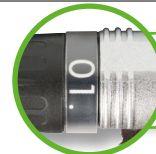
ORDER NO. male	ORDER NO. female
<b>HI-X5CM-B</b>	-
-	<b>HI-X5CF-B</b>



**5-pol XLR PRO+**  
**nickel-plated metal housing**  
black **metal cap**  
**6-chuck** collet strain relief  
for cable Ø 4.0 to 8.0 mm

**DESCRIPTION**

- 9 5-pole male. Machined, **silver-plated** contacts
- 10 5-pole female. **Silver-plated** contacts
- 11 5-pole male. Machined, **gold-plated** contacts
- 12 5-pole female. **Gold-plated** contacts



Comes with a clear ring that can display your custom labelling.

ORDER NO. male	ORDER NO. female
<b>HI-X5CM-V-M</b> <b>NEW</b> *	-
-	<b>HI-X5CF-V-M</b> <b>NEW</b> *
<b>HI-X5CM-V-GM</b> <b>NEW</b> *	-
-	<b>HI-X5CF-V-GM</b> <b>NEW</b> *



**5-pole XLR PRO+**  
black **metal housing**,  
black **metal cap**.  
**6-chuck** collet strain relief  
for cable Ø 4.0 to 8.0 mm.

**DESCRIPTION**

- 5-pole male. Machined, **silver-plated** contacts
- 5-pole female. **Silver-plated** contacts
- 11 5-pole male. Machined, **gold-plated** contacts
- 12 5-pole female. **Gold-plated** contacts



Comes with a clear ring that can display your custom labelling.

ORDER NO. male	ORDER NO. female
<b>HI-X5CM-M</b>	-
-	<b>HI-X5CF-M</b>
<b>HI-X5CM-G</b>	-
-	<b>HI-X5CF-G</b>

CONNECTORS

\* Coming soon.



HICON ▶ Audio ▶ **HICON XLR connector HI-MARLIN**

*A true all-rounder ...*

... is the ergonomic **HI-MARLIN XLR** connector from **HI-HICON**.

These **HICON HI-MARLIN XLR** connectors, which are splashproof and dustproof according to IP67\*, repel a direct water jet or infiltrating moisture, and can be submerged in water without compromising function. Many professional audio cables feature a gas-injected foam insulation, which is why standard chuck strain reliefs will often crush the delicate wire insulation, thereby affecting the electrical values. The lamellar seal with an internal rubber grommet offers the perfect solution.



**The pressure of the strain relief is evenly spread over the cable diameter and squeezes no dents into the jacket and insulation material.**

The locking technology is very convenient and extremely durable. It has no long spring travels and sits in the locking knob instead of the contact base, as is usually the case. This guarantees an easy and fuss-free installation or cable assembly. These connectors are saltwater and UV-resistant and loyal companions in particularly wet conditions such as installation in amusement parks, near the

coast, in the shipbuilding industry, with outdoor festivities like Christmas markets, state or county fairs, skiing events, under sediment, etc.

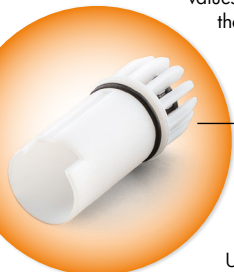
**Available in 3- and 5-pole versions , including as part of pre-assembled waterproof microphone cables or AES/EBU cables.** See chapter "Ready-made Cables".

**APPLICATIONS**

- Installation at outdoor events, in shipbuilding, skiing events, etc.
- Permanent connections in coastal areas

**PRODUCT ADVANTAGES**

- No infiltration of water, dirt, moisture, or sand
- Cable connectors water- and dust-proof IP67\* / Installation connectors splash- and dust-proof IP54\*
- Efficient handling, grips well, plugs and unplugs smoothly
- AES/EBU compliant (no contact vibration)
- Strain relief is especially protective of the cable
- High number of mating cycles due to the smart design of its zero-wear locking mechanism
- Fast and easy cable assembly



**XLR, waterproof and dustproof IP67\*, silver-plated contacts**

Nickel-plated metal housing, nickel-plated metal cap, 3-pole or 5-pole. Standard strain relief for cable Ø 4.6 to 6.5 mm

Recommended cable: SC-AQUA MARINEX MIKRO



x00231

**DESCRIPTION**

- 1 3-pole male. Machined, silver-plated contacts
- 2 3-pole female. Silver-plated contacts
- 3 5-pole male. Machined, silver-plated contacts
- 4 5-pole female. Silver-plated contacts

**ORDER NO. male**

- HI-X3CM-HD
- 
- HI-X5CM-HD
- 

**ORDER NO. female**

- 
- HI-X3CF-HD
- 
- HI-X5CF-HD



**XLR, waterproof and dustproof IP67\*, gold-plated contacts**

Black metal housing, black metal cap, 3-pole or 5-pole. Standard strain relief for cable Ø 4.6 to 6.5 mm

Recommended cable: SC-AQUA MARINEX MIKRO



x00232

**DESCRIPTION**

- 5 3-pole male. Machined, gold-plated contacts
- 6 3-pole female. Gold-plated contacts
- 7 5-pole male. Machined, gold-plated contacts
- 8 5-pole female. Gold-plated contacts

**ORDER NO. male**

- HI-X3CM-HD-B
- 
- HI-X5CM-HD-B
- 

**ORDER NO. female**

- 
- HI-X3CF-HD-B
- 
- HI-X5CF-HD-B



All versions ship with protective cap



**XLR, waterproof and dust-protected IP54\*, gold-plated contacts**

D-type Polyamide housing, black, with rubber gasket and protective cap, 3- pole or 5-pole.



x01420

**DESCRIPTION**

- 9 3-pole male. Gold-plated contacts
- 10 3-pole female. Gold-plated contacts
- 11 5-pole male. Gold-plated contacts
- 12 5-pole female. Gold-plated contacts

**ORDER NO. male**

- HI-X3DM-HD-B
- 
- NEW HI-X5DM-HD-B
- 

**ORDER NO. female**

- 
- HI-X3DF-HD-B
- NEW HI-X5DF-HD-B
- 

\* when plugged



HICON ▶ Audio ▶ **XLR CABLE CONNECTORS/ACCESSORIES**



**Protective cap with loop for attaching to cable**  
Protects against dirt and dust,  
suitable for all XLR connectors from HICON and NEUTRIK  
Material: thermoplastic rubber (TPR)

DESCRIPTION	ORDER NO.
Protective cap	CAP-19MM



**Strain relief for HICON XLR, straight type**  
For cable Ø 2.0 – 5.0 mm.

DESCRIPTION	ORDER NO.
Optional strain relief	HI-XSR40



**Color-coded metal cap for all commercially available HICON XLR connectors**  
(not suitable for HI-MARLIN connectors) NEW

COLOR	ORDER NO.	COLOR	ORDER NO.
Brown	<b>HI-XCAP1</b>	Blue	<b>HI-XCAP6</b>
Red	<b>HI-XCAP2</b>	Violet	<b>HI-XCAP7</b>
Orange	<b>HI-XCAP3</b>	Grey	<b>HI-XCAP8</b>
Yellow	<b>HI-XCAP4</b>	White	<b>HI-XCAP9</b>
Green	<b>HI-XCAP5</b>	Black, gloss	<b>HI-XCAP0</b>



Mounting example



**Silicone color-coding rings, elastic**  
For all HICON connectors with knurled housing.  
**10-pack**, multiple color coding (resistance code) also possible.  
Not suitable for post-assembly mounting.

COLOR	ORDER NO. 10-pack
Red	<b>HI-UC-RT</b>
Yellow	<b>HI-UC-GE</b>
Green	<b>HI-UC-GN</b>
Blue	<b>HI-UC-BL</b>
White	<b>HI-UC-WS</b>



**Color code rings for HICON XLR, straight type**

COLOR	ORDER NO. per pc.	COLOR	ORDER NO. per pc.
Red	<b>HI-XC-RT</b>	Black	<b>HI-XC-SW</b>
Orange	<b>HI-XC-OR</b>	Brown	<b>HI-XC-BR</b>
Yellow	<b>HI-XC-GE</b>	Grey	<b>HI-XC-GR</b>
Green	<b>HI-XC-GN</b>	White	<b>HI-XC-WS</b>
Blue	<b>HI-XC-BL</b>	Transparent	<b>HI-XC-TR</b>
Violet	<b>HI-XC-VI</b>		



Mounting example



**Numbered rings, anti-twist, half wide 10-pack**, for HICON XLR, straight type.  
Ideal for channel labelling max. 48 in / 16 out systems

COLOR	OVERPRINT	ORDER NO. 10-pack
<input type="checkbox"/> White	10 rings, one ring each with numbers "0" – "9"	<b>HI-XC-09-WS</b>
<input type="checkbox"/> White	10 rings with number "0"	<b>HI-XC-00-WS</b>
<input type="checkbox"/> White	10 rings with number "1"	<b>HI-XC-10-WS</b>
<input type="checkbox"/> White	10 rings with number "2"	<b>HI-XC-20-WS</b>
<input type="checkbox"/> White	10 rings with number "3"	<b>HI-XC-30-WS</b>
<input type="checkbox"/> White	10 rings with number "4"	<b>HI-XC-40-WS</b>
Red	10 rings, one ring each with numbers "0" – "9"	<b>HI-XC-09-RT</b>
Red	5 rings with number "0", 5 rings with number "1"	<b>HI-XC-05-RT</b>

**SYSEX** 



**Seal cap for XLR installation connectors**  
IP54 in mated condition

DESCRIPTION	ORDER NO. male	ORDER NO. female
<b>1</b> for XLR male	<b>HI-XLRM-CAP</b> <span style="color: red; font-weight: bold;">NEW</span>	-
<b>2</b> for XLR female	-	<b>HI-XLRF-CAP</b> <span style="color: red; font-weight: bold;">NEW</span>

 IP54



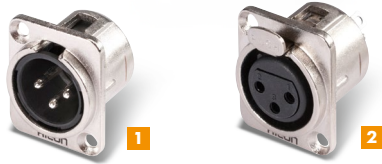
Mounting example



HICON ▶ Audio ▶ XLR PANEL CONNECTORS



SYS BOXX D



**3-pole XLR, nickel-plated contacts**  
Nickel-plated metal housing.  
Universal D flange.

DESCRIPTION	ORDER NO. male	ORDER NO. female
1 3-pole male. Machined, nickel-plated contacts	HI-X3DM	-
2 3-pole female. Nickel-plated contacts	-	HI-X3DF

SYS BOXX D



**3-pole XLR, silver-plated contacts**  
Black metal housing.  
Universal D flange.

DESCRIPTION	ORDER NO. male	ORDER NO. female
3 3-pole male. Machined, silver-plated contacts	HI-X3DM-M	-
4 3-pole female. Silver-plated contacts	-	HI-X3DF-M
5 3-pole male. Machined, silver-plated contacts, M3 thread, ideal for rear mounting	HI-X3DM-M3	-
6 3-pole female. Silver-plated contacts, M3 thread, ideal for rear mounting	-	HI-X3DF-M3

SYS BOXX D



**3-pole XLR, gold-plated contacts**  
Black metal housing.  
Universal D flange.

DESCRIPTION	ORDER NO. male	ORDER NO. female
7 3-pole male. Machined, gold-plated contacts	HI-X3DM-G	-
8 3-pole female. Gold-plated contacts	-	HI-X3DF-G
3-pole male. Machined, gold-plated contacts, M3 thread, ideal for rear mounting	HI-X3DM-G-M3	-
3-pole female. Gold-plated contacts, M3 thread, ideal for rear mounting	-	HI-X3DF-G-M3

SYS BOXX D



**3-pole XLR, silver-plated contacts**  
Black plastic housing.  
Universal D flange.

DESCRIPTION	ORDER NO. male	ORDER NO. female
9 3-pole male. Machined, silver-plated contacts	HI-X3DM-P	-
10 3-pole female. Silver-plated contacts non-locking	-	HI-X3DF-P

CONNECTORS

## HIGON ▶ Audio ▶ XLR PANEL CONNECTORS



1



x00243

**3-pole XLR, type A, PCB version, gold-plated contacts, vertical mounting, solderable**

Black plastic housing.

Dimensional drawings can be found under [www.sommercable.com](http://www.sommercable.com) on the matching product page.**DESCRIPTION**

1 3-pole female, with steel locking

**ORDER NO.  
female****HI-X3AF-PV**

2



x00244

**XLR/phone jack combo panel socket, gold-plated solder contacts**

Black plastic housing.

For universal D flange.

**DESCRIPTION**

2 3-pole XLR/stereo phone jack. Solder type

**ORDER NO.  
male****HI-XJEF6S****ORDER NO.  
female**

-

**Matching screws for:**

HI-X3AM-PV, HI-X3AF-PV, HI-XJEF6S



3



4

**DESCRIPTION**

3 Cheese head:

**ORDER NO.****S-P3118**

VPE: 25 pcs.

4 Countersunk:

**S-P3339**

VPE: 25 pcs.

**SYS BOXX D**

5



6



x00245

**4-pole XLR, gold-plated contacts**

Black metal housing.

Universal D flange

**DESCRIPTION**

5 4-pole male. Machined, gold-plated contacts

**ORDER NO.  
male****HI-X4DM-G****ORDER NO.  
female**

-

6 4-pole female. Machined, gold-plated contacts

-

**HI-X4DF-G****SYS BOXX D**

7



8



9



10



x00246

**5-pole XLR, silver-plated contacts**

Black metal housing.

Universal D flange

**DESCRIPTION**

7 5-pole male. Machined, silver-plated contacts

**ORDER NO.  
male****HI-X5DM-M****ORDER NO.  
female**

-

8 5-pole female. Silver-plated contacts

-

**HI-X5DF-M**9 5-pole male. Machined, silver-plated contacts, **M3 thread, ideal for rear mounting****HI-X5DM-M3**

-

10 5-pole female. Silver-plated contacts, **M3 thread, ideal for rear mounting**

-

**HI-X5DF-M3****SYS BOXX D**

11



12



x00247

**5-pole XLR, gold-plated contacts**

Black metal housing.

Universal D flange.

**DESCRIPTION**

11 5-pole male. Machined, gold-plated contacts

**ORDER NO.  
male****HI-X5DM-G****ORDER NO.  
female**

-

12 5-pole female. Gold-plated contacts

-

**HI-X5DF-G**

HICON ▶ Audio ▶ **MINI XLR CONNECTORS**



**Mini XLR, gold-plated contacts**  
Nickel-plated metal housing.  
Max. cable diameter 3.2 mm



x00252

DESCRIPTION	ORDER NO. male	ORDER NO. female
1 3-pole male. Machined, gold-plated contacts	HI-XMCM3	-
2 3-pole female. Gold-plated contacts	-	HI-XMCF3
3 4-pole male. Machined, gold-plated contacts	HI-XMCM4	-
4 4-pole female. Gold-plated contacts	-	HI-XMCF4
5 5-pole male. Machined, gold-plated contacts	HI-XMCM5	-
6 5-pole female. Gold-plated contacts	-	HI-XMCF5



**Mini XLR compact, gold-plated contacts**  
Black metal housing.  
Max. cable diameter 5.0 mm



x01444

DESCRIPTION	ORDER NO. male	ORDER NO. female
3-pole. Machined, gold-plated contacts	7 HI-XMCM3-B	8 HI-XMCF3-B
5-pole. Machined, gold-plated contacts	NEW HI-XMCM5-B	HI-XMCF5-B

**SYS BOXX D**

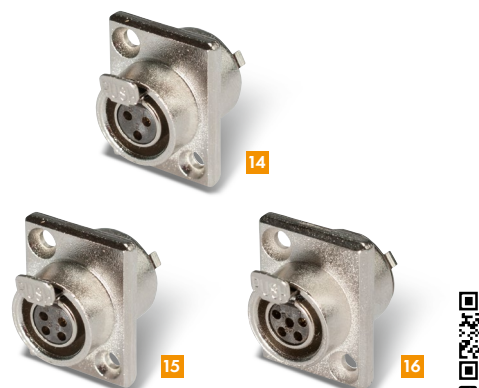


**Mini XLR, gold-plated contacts**  
Nickel-plated metal housing, outside thread Ø 10.9 mm



x00255

DESCRIPTION	ORDER NO. male	ORDER NO. female
9 3-pole male. Machined, gold-plated contacts	HI-XMEM3	-
10 3-pole male. Machined, gold-plated contacts, <b>Universal D flange</b>	HI-XMDM3	-
11 4-pole male. Machined, gold-plated contacts	HI-XMEM4	-
12 4-pole male. Machined, gold-plated contacts, <b>Universal D flange</b>	HI-XMDM4	-
13 5-pole male. Machined, gold-plated contacts	HI-XMEM5	-
5-pole male. Machined, gold-plated contacts, <b>Universal D flange</b>	HI-XMDM5	-



**Mini XLR, gold-plated contacts**  
Nickel-plated metal housing.  
Hole cutout 17.1 x 11.4 mm (Ø 2.8 mm).  
Flange 24.4 x 18.8 mm (H x W).



x00256

DESCRIPTION	ORDER NO. male	ORDER NO. female
14 3-pole female. Gold-plated contacts	-	HI-XMEF3
15 4-pole female. Gold-plated contacts	-	HI-XMEF4
16 5-pole female. Gold-plated contacts	-	HI-XMEF5

CONNECTORS



HICON ▶ Audio ▶ **PHONE CONNECTORS****HICON**  
CONNECTORS

Phone plugs have to satisfy a lot of very diverse expectations. While the guitarist prefers a heavy and robust connector, the studio technician needs a small, inconspicuous plug that won't take up too much space on densely populated patchbays. Especially popular with guitar players is the black American-style **HICON HI-J63M04** which can easily take a fat guitar cable or a speaker cable with a large diameter. It is fitted with a robust solid tip and sleeve, with dependable clamping strain relief.

Because of their low contact resistances **HICON HI-J63M** and **HI-J63M03** are frequently used for high-end guitar cables.

A true highlight is the **TRICONE XXL** phone plug **HI-J63TC-SM**, featuring an easy and fast solderless DIY installation, perfect for all on-site assemblies.

The new **HICON HI-J63MP-B** and **HI-J63SP-B** phone plug offers the same quality which not only makes its "big brother"

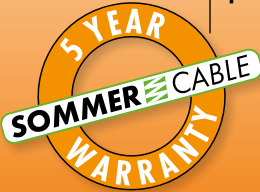
**HI-J63M** or the stereo version **HI-J63S** unique, but also has a standard 3-chuck collet strain relief instead of the usual **HICON** 4-chuck type. The shell is non-conductive, the tip is standard rather than gold-plated and instead of the metal cap we now use a robust sealing cap made of plastic.

Furthermore, the new phone plugs feature transparent rings for subsequent labelling or color coding.

An assortment of phone connector adapters is shown on the following pages in the "Audio Adapters" section!



We offer a 5-year warranty on all HICON phone connectors!



Simply good vibes.



With 3-chuck strain relief



x00267

**6.3 mm phone plug with solid pin**

Metal housing with black plastic cap, non-conductive surface. Max. cable Ø 7.0 mm.  
For color-coded rings see next page.

**DESCRIPTION**

- |   | DESCRIPTION  | ORDER NO. mono    | ORDER NO. stereo  |
|---|--|-------------------|-------------------|
| 1 | 2-pole male, <b>mono</b> . 6.3 mm phone plug<br><b>Black metal shell, non-conductive surface</b>   | <b>HI-J63MP-B</b> | -                 |
| 2 | 3-pole male, <b>stereo</b> . 6.3 mm phone plug<br><b>Black metal shell, non-conductive surface</b> | -                 | <b>HI-J63SP-B</b> |
| 3 | 2-pole male, <b>mono</b> . 6.3 mm phone plug<br><b>Nickel-plated metal shell</b>                   | <b>HI-J63MP</b>   | -                 |
| 4 | 3-pole male, <b>stereo</b> . 6.3 mm phone plug<br><b>Nickel-plated metal shell</b>                 | -                 | <b>HI-J63SP</b>   |



Comes with a clear ring that can display your custom labelling.



With 4-chuck strain relief



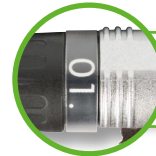
x00269

**6.3 mm plug with twistproof solid pin with gold-plated tip**

All-metal housing with metal cap in matt silver finish (velvet chrome). Max. cable Ø 7.8 mm.  
For color-coded rings see next page.

**DESCRIPTION**

- |   | DESCRIPTION   | ORDER NO. mono | ORDER NO. stereo |
|---|---|----------------|------------------|
| 5 | 2-pole male, <b>mono</b> . 6.3 mm phone plug<br><b>Massive pin, Gold-plated pin</b>   | <b>HI-J63M</b> | -                |
| 6 | 3-pole male, <b>stereo</b> . 6.3 mm phone plug<br><b>Massive pin, Gold-plated pin</b> | -              | <b>HI-J63S</b>   |



Comes with a clear ring that can display your custom labelling.



HICON ▶ Audio ▶ PHONE PLUGS



**HICON**  
CONNECTORS

**TOP  
SELLER**



Comes with a clear ring that can display your custom labelling.

**6.3 mm phone plug PRO with anti-twist pin**

Full metal housing, black.  
Max. cable Ø 7.8 mm.  
With collet strain relief.



x00270

**DESCRIPTION**

- 1 2-pole male, **mono**. 6.3 mm phone plug  
**Massive pin**
- 2 2-pole male, **mono**. 6.3 mm phone plug  
**Massive pin, gold-plated**
- 3 3-pole male, **stereo**. 6.3 mm phone plug  
**Massive pin**
- 4 3-pole male, **stereo**. 6.3 mm phone plug  
**Massive pin, gold-plated**

**ORDER NO.**

**mono**

**ORDER NO.**

**stereo**

**HI-J63M03**

-

**HI-J63M03-G**

-

-

**HI-J63S03**

-

**HI-J63S03-G**

**Color-coding rings for HICON phone plug**



x00271

**DESCRIPTION**

Designed to fit: **HI-J63MP-B, HI-J63SP-B, HI-J63M, HI-J63S, HI-J63M03, HI-J63M03-G, HI-J63S03, HI-J63S03-G.**

For a wide range of color combinations two color code rings (in single width) may be used.

**COLOR**

- Red
- Orange
- Yellow
- Green
- Blue
- Black
- Red (double width)
- Blue (double width)
- Black (double width)
- Transparent (double width)

**ORDER NO.**

- HI-JC-RT**
- HI-JC-OR**
- HI-JC-GE**
- HI-JC-GN**
- HI-JC-BL**
- HI-JC-SW**
- HI-JC-RT6**
- HI-JC-BL6**
- HI-JC-SW6**
- HI-JC-TR6**



x00273

**6.3 mm jack plug, gold tip**

Metal housing, plastic cap,  
**90° angled**  
Max. cable Ø 8.0 mm.



With 3-chuck strain relief

**DESCRIPTION**

- 5 2-pole male, **mono**. 6.3 mm phone plug  
**90° angled**
- 6 3-pole male, **stereo**. 6.3 mm phone plug  
**90° angled**

**ORDER NO.**

**mono**

**ORDER NO.**

**stereo**

**HI-J63MA06**

-

-

**HI-J63SA06**



x00275

**6.3 mm phone plug, gold-plated tip**

Black metal housing  
Max. cable Ø 7.5 mm,  
including sleeve support max. 5.0 mm  
With collet strain relief..



Mounting example



**Matching color-coding rings: HI-UC-... see following pages!**

**DESCRIPTION**

- 7 2-pol male, **mono**. 6.3 mm phone plug
- 8 2-pol male, **mono**. 6.3 mm phone plug  
**90° abgewinkelt**

**ORDER NO.**

**mono**

**ORDER NO.**

**stereo**

**HI-J63M07**

-

**HI-J63MA07**

-

CONNECTORS

## HICON ▶ Audio ▶ PHONE PLUGS

HICON<sup>®</sup>  
CONNECTORS

Noisefree plugging &amp; unplugging



Smart plug system makes switch-on noises like crackling and popping a thing of the past

**6.3 mm phone plug, solid gold-plated tip, NOISEFREE**

Black metal housing. Max. cable Ø 7.0 mm. With clamping strain relief.

## DESCRIPTION

- 1 2-pole male, **mono**. 6.3 mm phone plug  
**NOISEFREE**
- 2 2-pole male, **mono**. 6.3 mm phone plug  
**90° angled, NOISEFREE**

ORDER NO.  
mono

HI-J63M14

ORDER NO.  
stereo

-

HI-J63MA14

-



x00279

ORDER NO.  
mono

HI-J63M01

ORDER NO.  
stereo

-

-

HI-J63S01

HI-J63MA01

-

These phone plugs have a collet strain relief that counter-expands under pressure (see fig.), withstanding high tensile forces, especially when used with BNC crimping pliers (for RG58/59).

**6.3 mm phone plug, gold-plated tip**

Chrome-plated metal housing.

Max. cable Ø 6.0 mm.



## DESCRIPTION

- 3 2-pole male, **mono**. 6.3 mm phone plug
- 4 3-pole male, **stereo**. 6.3 mm phone plug
- 5 2-pole male, **mono**. 6.3 mm phone plug  
**90° angled**

ORDER NO.  
mono

HI-J63M01

ORDER NO.  
stereo

-

-

HI-J63S01

HI-J63MA01

-



x00282

**Robust, compact 6.3 mm phone plug CLASSIC, solid continuous pin with gold-plated tip**

Black metal housing.

Max. cable Ø 7.0 mm. With collet strain relief.

## DESCRIPTION

- 6 2-pole male, **mono**. 6.3 mm phone plug
- 7 3-pole male, **stereo**. 6.3 mm phone plug
- 8 2-pole male, **mono**. 6.3 mm phone plug  
**90° angled**
- 9 2-pole male, **stereo**. 6.3 mm phone plug  
**90° angled**

ORDER NO.  
mono

HI-J63M04

ORDER NO.  
stereo

-

-

HI-J63S04

HI-J63MA04

-

-

HI-J63SA04



x00285

**6.3 mm phone plug, screw & play, solid gold-plated tip**

Solderless, with screw contacts

Black metal housing

Cable Ø 5.5 mm–6.2 mm

Recommended cable: TRICONE XXL, SPIRIT XS, RG59

## DESCRIPTION

- 10 2-pol male, **mono**. 6.3 mm phone plug, screw&play  
**90° angled**

ORDER NO.  
mono

**NEW** HI-J63MA-SM

ORDER NO.  
stereo

-

- 11 Suitable color-coding rings:

 white

HI-CSM-WS

 red

HI-CSM-RT



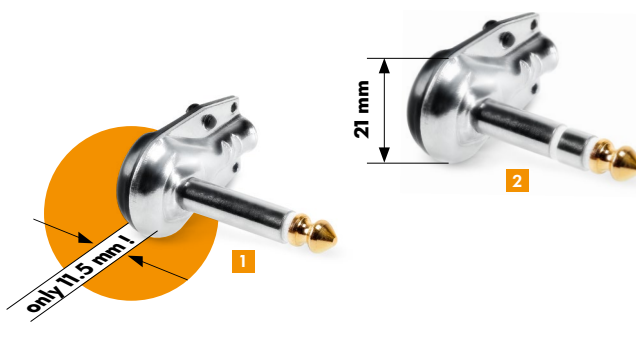
x01467

SCREW  
+  
PLAY

HICON ▶ Audio ▶ PHONE PLUGS



Pancake jack cable for floor effects devices, see chapter "Premade Cables"



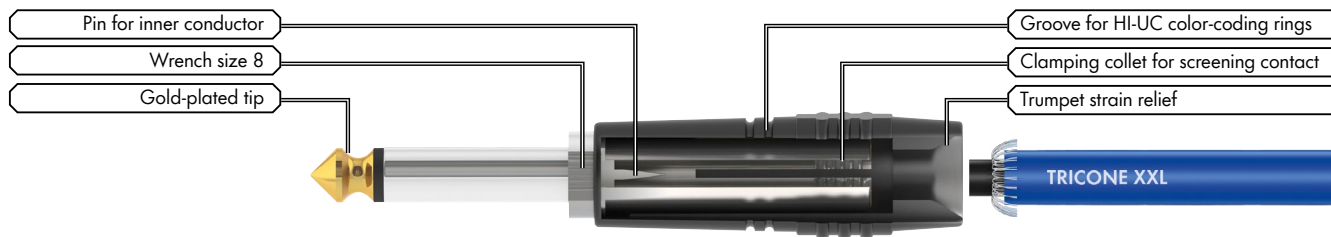
**Superflat 6.3 mm phone plug, massive sleeve with gold-plated tip, solder version**  
 Black metal housing. **90° angled**, moisture-repellent insulation  
 Cable Ø 4.0–6.4 mm. With clamping strain relief. Only 11.5 mm mounting height when plugged in!



x00290

DESCRIPTION	ORDER NO.	ORDER NO.
	mono	stereo
1 2-pole male, <b>mono</b> . 6.3 mm phone plug <b>Perfect for space-saving floor effects designs</b>	<b>HI-J63MA05</b>	-
2 3-pole male, <b>stereo</b> . 6.3 mm phone plug	-	<b>HI-J63SA05</b>

HICON ▶ Audio ▶ PHONE PLUGS TRICONE®



**SCREW + PLAY**

The **TRICONE® XXL** cable is available in:  
 ■ black: **ORDER NO. 300-0271**  
 ■ blue: **ORDER NO. 300-0272**  
 ■ red: **ORDER NO. 300-0273**



Joining piece for pliers or 8 mm wrench (5/16")



Our **TRICONE® XXL phone plug HI-J63TC-SM** is perfect for simple, solder-free DIY assembly when used with our **TRICONE® XXL instrument cable**. **Ideal for studio patch cabling plus all emergencies and on-site assembly.**

**6.3 mm phone plug, solid continuous pin with gold-plated tip.**  
 Solder-free DIY assembly. Black fiberglass-reinforced polymer housing with two grooves for **HI-UC-Color** silicone color rings.  
 Suitable cable: **TRICONE® XXL**

Solder-free  
 DIY assembly!



x00293

DESCRIPTION	ORDER NO.
2-pole male, <b>mono</b> . 6.3 mm phone plug <b>Solder-free DIY assembly, wrench size 8 mm</b>	<b>HI-J63TC-SM</b>



Fitting example

**Silicone color rings, elastic.**

For all HICON connectors with grooved housings.  
**10-pack**, multi-color coding (resistance code) also possible.



x00235

Color	ORDER NO. 10-pack
■ Red	<b>HI-UC-RT</b>
■ Yellow	<b>HI-UC-GE</b>
■ Green	<b>HI-UC-GN</b>
■ Blue	<b>HI-UC-BL</b>
□ White	<b>HI-UC-WS</b>

CONNECTORS



## HICON ▶ Audio ▶ MINI PHONE CONNECTORS

HICON<sup>®</sup>  
CONNECTORSLittle *big* man

These 3.5 mm / 1/8" mini phone connectors are used in countless compact devices like MP3 players, sound cards, body packs, etc.

The HICON range offers an array of versions with these special features:

- screw lock for mobile applications (e.g., bodypacks)
- wide cable gland (for twin cables and/or thick cables)
- chuck strain relief (for high tensile forces)
- 6.3 mm / 1/4" screw adapter (for headphones, etc.)
- 90° angled



All versions come with genuine gold-plated solid pins and a 5-year warranty.



Simply good vibes.

CONNECTORS



**3.5 mm phone plug and in-line jack** with genuine gold-plated pin. 3-pole, **locking screw thread**. Black metal housing. Max. cable Ø 5.8 mm. With clamping strain relief. Matching sleeve protection for male version see Pos. 8 - HI-KS38

DESCRIPTION	ORDER NO. male	ORDER NO. female
1 3-pole male. 3.5 mm stereo plug	HI-J35S-SCREW-M	-
2 3-pole female. 3.5 mm stereo phone jack	-	HI-J35S-SCREW-F



**3.5 mm phone plug** with genuine gold-plated pin. Black metal housing. With clamping strain relief.

DESCRIPTION	ORDER NO. male	ORDER NO. female
3 3-pole male. 3.5 mm stereo plug <b>Max. cable Ø 8.4 mm</b>	HI-J35S02	-
4 4-pole male. 3.5 mm plug <b>Max. cable Ø 8.4 mm</b> <b>With extra pole for A/V applications</b>	HI-J35T02	-
5 3-pole male. 3.5 mm stereo phone plug, compact design. Max. cable Ø 6.5 mm.	HI-J35S03	-



**3.5 mm phone plug** with genuine gold-plated pin. Black metal housing. Cable Ø 4.0–6.8 mm. With solder lug and **chuck strain relief**.

DESCRIPTION	ORDER NO. male	ORDER NO. female
6 2-pole male, gold-plated contacts, mono	HI-J35M04	-
7 3-pole male, gold-plated contacts, stereo	HI-J35S04	-



**Black rubber protective sleeve** for HI-J35S-SCREW-M and HI-J3563S. Max. cable Ø 3.8 mm

DESCRIPTION	ORDER NO.
Protective sleeve	HI-KS38



HICON ▶ Audio ▶ MINI PHONE CONNECTORS



Flexible stereo adapter plug system converts 1/8" mini phone plug to 1/4" phone plug (e.g. headphones, DJ equipment)

**3.5 mm phone plug** with hard gold-plated pin, lockable via screw thread, solder version. Black metal shell

Max. cable Ø 5.8 mm

**incl. 6.3 mm phone plug jack adapter, gold-plated**

Matching sleeve protection HI-KS38



x00308

**DESCRIPTION**

3-pole male. **3.5 mm** stereo phone plug + 6.3 mm stereo plug adapter

**ORDER NO. male**

HI-J3563S

**ORDER NO. female**

-



**3,3.5 mm phone plug, hard gold-plated pin**

Black aluminum housing

Max. cable Ø 5.8 mm. With clamping strain relief.



x00311

**DESCRIPTION**

**1** 3-pole male, stereo. 3.5mm phone plug

**NEW**

**ORDER NO. male**

HI-J35S05

**ORDER NO. female**

-

**2** 3-pole male, stereo. 3.5 mm phone plug **90° angled**

HI-J35SA

-



**2.5 mm jack plug, real gold-plated pin**

Metal housing, black/red

Max. cable Ø 3.8mm. With collet strain relief.

Recommended cable: SC-ONYX 2025



x01672

**DESCRIPTION**

**3** 3-pole male, stereo. 2.5 mm jack, **black**

**NEW**

**ORDER NO. male**

HI-J25S01-BLK

**ORDER NO. female**

-

**4** 3-pole male, stereo. 2.5 mm jack, **red**

**NEW**

HI-J25S01-RED

-



**Mini jack panel-mount socket, solder version. 3-pole**

Metal housing, chrome-plated. With plastic end.



x00313

**DESCRIPTION**

**5** 3-pole female. **2.5 mm** sub-mini phone jack. **For control**

**ORDER NO. male**

-

**ORDER NO. female**

HI-J25SEF

**6** 3-pole female. **3.5 mm** mini phone jack. **For audio**

-

HI-J35SEF

**SYS BOXX D**



**Mini jack panel socket. 3-pole. D flange.**



x00315

**DESCRIPTION**

**7** 3-pole female. Chassis-mount **2.5 mm** sub-mini phone jack. **Solder version, for control**

**ORDER NO. male**

-

**ORDER NO. female**

HI-J25SEFD

3-pole female. Chassis-mount **3.5 mm** mini phone jack. **Solder version, for audio**

-

HI-J35SEFD

**8** 3-pole female. Chassis-mount **3.5 mm** mini phone jack **Screw/clamping terminal 3 x 1.5 mm<sup>2</sup>**

-

HI-J35SEFD-S

HICON ▶ Audio ▶ **RCA/PHONO CONNECTORS****HICON**  
CONNECTORS

Before buying an RCA/phono connector, you should always make sure to purchase brand quality, because inferior connectors often have high contact impedances and bad attenuation values, thus negating the benefits of a good audio cable.

**Features of quality connectors:**

- Proper gold-plating or coating. Low-cost connectors often have only a lacquer finish!
- A solid continuous pin with no gaps caused by rivets, pressing, etc.
- Low contact resistances

The **HICON HI-CM09**, **HI-CM13** and **HI-CM18** RCA/phono connectors have a collet lock fixture to ensure optimal contact. Slightly unscrew the housing, insert the phono plug into its intended jack and then rotate the housing backward again (with **HI-CM09** forward). The plug will be held so firmly and securely in place that it will come off only upon unscrewing the housing.

**A range of RCA/phono adapters is shown on the following pages in the "Audio Adapters" section!**

Owing to the high quality of the HICON RCA/phono series, HICON includes a 5-year warranty on these connectors!



Simply good vibes.



1



2



x00318

**RCA/phono plug, 2-pole. Genuine gold-plated solid pin.**  
Black metal housing.  
Cable Ø 7.5 mm, incl. spring max. 6.4 mm.  
With triple-chuck strain relief and spring.



With strain relief

**DESCRIPTION****COLOR CODE****ORDER NO.**

1	2-pole male. RCA/phono	■ Red	<b>HI-CM03-RED</b>
2	2-pole male. RCA/phono	□ Neutral (white)	<b>HI-CM03-NTL</b>



3



4

**TOP  
SELLER**

x00321

**RCA/phono plug, 2-pole. Genuine gold-plated solid pin.**  
Black metal housing.  
Cable Ø 4,0–6,0 mm, incl. anti-kink grommet max. 5.0 mm.

**DESCRIPTION****COLOR CODE****ORDER NO.**

3	2-pole male. RCA/phono	■ Red	<b>HI-CM06-RED</b>
	2-pole male. RCA/phono	■ Yellow	<b>HI-CM06-YEL</b>
	2-pole male. RCA/phono	■ Green	<b>HI-CM06-GRN</b>
	2-pole male. RCA/phono	■ Blue	<b>HI-CM06-BLU</b>
4	2-pole male. RCA/phono	□ Neutral (white)	<b>HI-CM06-NTL</b>



5



6



x00323

**RCA/phono plug, 2-pole. Genuine gold-plated solid pin.**  
Chrome-plated metal housing.  
Cable Ø 6.0–8.0 mm.

**DESCRIPTION****COLOR CODE****ORDER NO.**

5	2-pole male. RCA/phono	■ Red	<b>HI-CM07-RED</b>
6	2-pole male. RCA/phono	□ Neutral (white)	<b>HI-CM07-NTL</b>



7



8



x01438

**RCA/phono plug, 2-pole. Genuine gold-plated solid pin.**  
90° angled housing. Screw type.  
Cable Ø 6.0–7.0 mm.

**DESCRIPTION****COLOR CODE****ORDER NO.**

7	2-pole male. RCA/phono <b>Black housing</b>	■ Red	<b>HI-CMA02-RED</b>
8	2-pole male. RCA/phono <b>Black housing</b>	□ Neutral (white)	<b>HI-CMA02-NTL</b>

HICON ▶ Audio ▶ RCA/PHONO CONNECTORS



x01549

Epilogue hi-fi cables



**RCA/phono plug, 2-pole. Genuine gold-plated solid pin.**  
Metal housing, Velvet chrome; **collet lock fixture.**  
Cable Ø 6.0–8.0 mm.



x00326

DESCRIPTION	COLOR CODE	ORDER NO.
1 2-pole male. RCA/phono	■ Red	HI-CM13-RED
2 2-pole male. RCA/phono	□ Black	HI-CM13-BLK



**RCA/phono plug, 2-pole. Genuine gold-plated solid pin.**  
Chrome-plated metal housing; **collet lock fixture.**  
Cable Ø 6.0–9.0 mm.



x00328

DESCRIPTION	COLOR CODE	ORDER NO.
3 2-pole male. RCA/phono	■ Red	HI-CM09-RED
4 2-pole male. RCA/phono	□ Neutral (white)	HI-CM09-NTL



**RCA/phono plug, 2-pole. Genuine gold-plated solid pin.**  
Chrome-plated metal housing; **collet lock fixture.**  
Cable Ø 6.0–8.0 mm.



x00330

DESCRIPTION	COLOR CODE	ORDER NO.
5 2-pole male. RCA/phono	■ Red	HI-CM18-RED
6 2-pole male. RCA/phono	□ Neutral (white)	HI-CM18-NTL

CONNECTORS



HICON ▶ Audio ▶ The spectacular RCA/phono connector

HICON<sup>®</sup>  
CONNECTORS

# SCREW + PLAY



Each connector is supplied with a white and a red color code ring



Fitting example



x00355

... for solderless DIY assembly!

Assembling a professional audio cable has never been so easy.

In addition to our successful DIY phone plug connector we have developed the **RCA/phono plug with screw terminal**. Insulated by macromolecular, thermoplastic resin, it offers extremely **low contact resistance values** and is therefore especially suitable as a hi-fi or audiophile connector.

Moreover, it offers **genuine gold-plated contact surfaces, a massive pin** and a solid **profile connection strain relief**, designed for cable gauges from 4.0 – 6.8 mm / 0.157– 0.268".

The ideal wire cross-section is 0.34 mm<sup>2</sup>/AWG21 to 1.00 mm<sup>2</sup>/AWG17. Smaller cross-sections may be doubled.

The **HI-CM-SM** is **perfectly matched to** our **coax cable series TRICONE-XXL (300-0271), SPIRIT XXL (300-0071), CLASSIQUE (300-0117), CORONA (800-0079)**.

Each connector is supplied with a white and a red color code ring – to give you ultimate flexibility.

With a set of 4 HI-CM-SMs and a high-quality cable, you can easily make a set of high-grade hi-fi, pro audio or DJ interconnects in no time in your desired length.

DESCRIPTION	COLOR CODE	ORDER NO.
2-pole male, RCA/phono, screw&play (PU: 1 pcs)	■ □	<b>HI-CM-SM</b>

## SCREW + PLAY



1

2



x01468

**RCA/phono plug, screw & play, 2-pole. Solid gold-plated tip**  
**Solderless, with screw contacts**

Black metal housing

Cable Ø 5.5 mm–6.2 mm

Recommended cables: TRICONE XXL, SPIRIT XS, RG59

DESCRIPTION	COLOR CODE	ORDER NO.
1 2-pole male, RCA/phono, screw&play <b>90° angled</b>		<b>NEW</b> <b>HI-CMA-SM</b>
2 Suitable color-coding rings:	□ White	<b>HI-CSM-WS</b>
	■ Red	<b>HI-CSM-RT</b>



## SCREW + PLAY



x01673

**RCA/phono plug, screw & play, 2-pole, real gold-plated solid pin**

Nickel-plated housing

Recommended cable: SC-VECTOR 0.8/3.7

DESCRIPTION	ORDER NO.
2-pole male, RCA/phono, screw&play	<b>NEW</b> <b>HI-CM0.8/3.7-SM</b>



## HICON ▶ Audio ▶ ... RCA/PHONO JACKS

HICON<sup>®</sup>  
CONNECTORS

**RCA/phono in-line jack, 2-pole. Genuine gold-plated, solder type.**  
Black metal housing.  
Max. cable Ø 7.0 mm, an anti-kink grommet of max. 5 mm is included.



x01469

DESCRIPTION	COLOR CODE	ORDER NO.
1 2-pole female. RCA/phono	■ Red <b>NEW</b>	HI-CF06-RED
2 2-pole female. RCA/phono	□ White <b>NEW</b>	HI-CF06-WHT



**RCA/phono in-line jack, 2-pole. Genuine gold-plated, solder type.**  
Chrome-plated metal housing.  
Cable Ø 6.0–8.0 mm.



x00374

DESCRIPTION	COLOR CODE	ORDER NO.
3 2-pole female. RCA/phono	■ Red	HI-CF08-RED
4 2-pole female. RCA/phono	■ Blue	HI-CF08-BLU
2-pole female. RCA/phono	□ White	HI-CF08-WHT

## SYS BOXX



**RCA/phono panel jack/Extension adapter, 2-pole. Patch type.**  
Isolated ground. Thread outside Ø 12.7 mm (1/2"), fits into HI-DET D flange.  
\* For color-coding rings, see HICON BNC connectors on the following pages.



x00375

DESCRIPTION	COLOR CODE	ORDER NO.
2-pole female. RCA/phono	*	HI-CEFP01-NTL



**RCA/phono panel jack, 2-pole, genuine gold-plated.**  
**Solder type, PTFE insulated.**  
Thread outside Ø 8.0 mm.



x00376

DESCRIPTION	COLOR CODE	ORDER NO.
5 2-pole female. RCA/phono	■ Red	HI-CEF01-RED
6 2-pole female. RCA/phono	■ Black	HI-CEF01-BLK
7 2-pole female. RCA/phono	□ White	HI-CEF01-WHT

## SYS BOXX



**RCA/phono panel jack, 2-pole. Solder type**  
Thread outside Ø 12.7 mm (1/2"), fits into HI-DET D flange.  
\* For color-coding rings, see HICON BNC connectors on the following pages



x00377

DESCRIPTION	COLOR CODE	ORDER NO.
2-pole female. RCA/phono	*	HI-CEFO2

## SYS BOXX D



**RCA/phono panel jack, 2-pole.**  
**D flange. Solder type, colored isolation ring.**



x00378

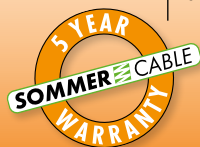
DESCRIPTION	COLOR CODE	ORDER NO.
8 2-pole female. RCA/phono	■ Red	HI-CEFD-RED
2-pole female. RCA/phono	■ Yellow	HI-CEFD-YEL
2-pole female. RCA/phono	■ Green	HI-CEFD-GRN
2-pole female. RCA/phono	■ Blue	HI-CEFD-BLU
2-pole female. RCA/phono	■ Black	HI-CEFD-NTL
2-pole female. RCA/phono	□ White	HI-CEFD-WHT

HICON ▶ Audio ▶ **BANANA PLUGS and CABLE LUGS****HICON**  
CONNECTORS

The Elektrolabor R-clips developed by the Hirschmann GmbH company back in 1926 are regarded as the predecessor of modern banana connectors, which owe their name to their banana-shaped leaf-spring tip. To this day, the 4 mm / 0.157" version can be found in almost all premium-grade hi-fi loudspeaker connections.

The **HICON** fork-type cable lugs provide an optimal clamp connection to your loudspeaker terminals. All **HICON** banana connectors and cable lugs are hard gold-plated and guarantee low contact resistance values.

All versions have real gold-plated surfaces and come with a 5-year warranty.



Simply good vibes.



CONNECTORS

**Banana plug, hard gold-plated, w. screw terminal.**

Plastic shell.  
Max. cable Ø 4.2 mm.



x00380

DESCRIPTION	COLOR CODE	ORDER NO.
1 Banana plug	■ Black	HI-BM01-BLK
2 Banana plug	■ Red	HI-BM01-RED

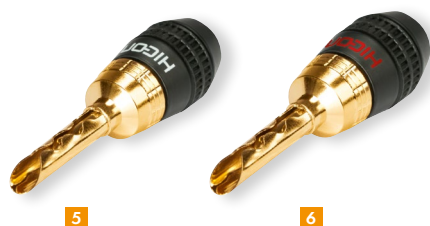
**Banana plug, hard gold-plated, w. screw terminal.**

Metal shell.  
Max. cable Ø 4.2 mm.



x00381

DESCRIPTION	COLOR CODE	ORDER NO.
3 Banana plug	□ Neutral (white)	HI-BM04-WHT
4 Banana plug	■ Red	HI-BM04-RED

**Banana plug, hard gold-plated, w. lamellar clamping contact.**

Metal shell. Max. cable Ø 4.0 mm.  
Recommended cable: **SC-DUAL BLUE, SC-QUADRA BLUE, SC-ECLIPSE SPQ240 MKII**



x00382

DESCRIPTION	COLOR CODE	ORDER NO.
5 Banana plug	□ Neutral (white)	HI-BM05-WHT
6 Banana plug	■ Red	HI-BM05-RED

**Banana plug, hard gold-plated, w. universal clamp.**

Metal shell.  
Max. cable Ø 7.2 mm.



x00383

DESCRIPTION	COLOR CODE	ORDER NO.
7 Banana plug	■ Black	HI-BM06-BLK
8 Banana plug	■ Red	HI-BM06-RED

**Banana plug, hard gold-plated, w. screw terminal.**

Metal shell.  
Max. cable 4.2 mm.



x00384

DESCRIPTION	COLOR CODE	ORDER NO.
9 Banana plug „screw & play“	□ Neutral (white)	HI-BM07-WHT
10 Banana plug „screw & play“	■ Red	HI-BM07-RED

HICON ▶ Audio ▶ BANANA PLUGS and CABLE LUGS

HICON  
CONNECTORS

SCREW  
+  
PLAY



x01681



High-end speaker cable QBC8



**Banana plug, hard gold-plated, w. expansion clasp.**

Metal shell.

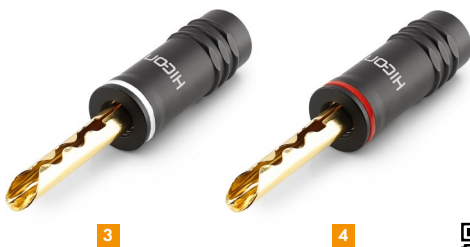
Max. cable 6.9 mm

Recommended cable: **SC-DUAL BLUE, SC-QUADRA BLUE, SC-ECLIPSE SPQ240 MKII**



x00385

DESCRIPTION	COLOR CODE	ORDER NO.
1 Banana plug	■ Black	HI-BM08-BLK
2 Banana plug	■ Red	HI-BM08-RED



**Banana plug, hard gold-plated, universal connection (solder/clamp/crimp)**

Matt black metal housing.

Max. cable Ø 8.5 mm.

Cable cross-section 1.5–6.0 mm<sup>2</sup>



x00386

DESCRIPTION	COLOR CODE	ORDER NO.
3 Banana plug	□ Neutral (white)	HI-BM13-WHT
4 Banana plug	■ Red	HI-BM13-RED



**Cable lug, hard gold-plated, with screw terminal.**

Metal shell.

Fork width 6.0 mm, max. cable Ø 3.8 mm. Ideal for conductors between 6.0 mm<sup>2</sup> and 4.0 mm<sup>2</sup>.



x00387

DESCRIPTION	COLOR CODE	ORDER NO.
5 Cable lug	■ Black	HI-CT05-BLK
6 Cable lug	■ Red	HI-CT05-RED



**Cable lug, hard gold-plated, angled.**

Metal shell.

Fork width 7.7 mm. Ideal for conductors between 4.0 mm<sup>2</sup> and 8.0 mm<sup>2</sup>.

Recommended cable: **SC-DUAL BLUE, SC-QUADRA BLUE, SC-ECLIPSE SPQ240 MKII**



x00389

DESCRIPTION	ORDER NO.
7 Cable lug plain, angled 30°	HI-CTA01
8 Cable lug w. strain relief, max. Ø 6.0 mm, angled 25°	HI-CTA02

CONNECTORS



HICON ▶ Audio ▶ **ADAPTERS**

The **HICON** audio adapters with their high-quality metal finish are robust and ideal for everyday stage use. We use heat-resistant polyoxymethylene (POM) insulation, with the pin's shock-proof plastic ensuring high mating cycles and great durability.

**HICON metal adapters are so rugged they come with a 5-year warranty!**

The BASIC version is a budget plastic type and not covered by the **HICON** warranty.

More audio adapters, notably individual attenuators, are listed under "Ready-made Cables > Live Event Sound".



Simply good vibes.



x00390

**XLR adapters**

Black metal housing.

DESCRIPTION	ORDER NO.
1 XLR 3-pole male ↔ XLR 3-pole male	<b>HI-X3X3-MM</b>
2 XLR 3-pole female ↔ XLR 3-pole female	<b>HI-X3X3-FF</b>
3 XLR 3-pole male ↔ XLR 3-pole female	<b>HI-X3X3-FM</b>
4 XLR 3-pole male ↔ XLR 5-pole female	<b>HI-X3X5-MF</b>
XLR 3-pole male ↔ XLR 5-pole female	<b>HI-X3X5-MF</b>



x00393

**XLR adapter with attenuator / DMX terminators**

Black metal housing.

DESCRIPTION	ORDER NO.
5 XLR 3-pole male ↔ XLR 3-pole female <b>Attenuator -20 dB @ 200 Ω</b>	<b>HI-X3X3-20-200</b>
6 XLR 3-pole male <b>DMX terminator 120 Ω</b>	<b>HI-X3MT</b>
7 XLR 3-pole female <b>DMX terminator 120 Ω</b>	<b>HI-X3FT</b>
XLR 5-pole male <b>DMX terminator 120 Ω</b>	<b>HI-X5MT</b>
XLR 5-pole female <b>DMX terminator 120 Ω</b>	<b>HI-X5FT</b>



x00395

**XLR ↔ Mini XLR adapter**

Metal housing.

DESCRIPTION	ORDER NO.
8 XLR 3-pole female ↔ Mini XLR 3-pole male	<b>HI-X3MX3-FM</b>
9 XLR 3-pole male ↔ Mini XLR 3-pole male	<b>HI-X3MX3-MM</b>



x00397

**XLR ↔ RCA adapter**

Black metal housing.

DESCRIPTION	ORDER NO.
10 XLR 3-pole female ↔ RCA female	<b>HI-X3CI-FF</b>
11 XLR 3-pole male ↔ RCA female	<b>HI-X3CI-MF</b>



HICON ▶ Audio ▶ ADAPTERS



Plug adapters 6.3 mm, male



DESCRIPTION	ORDER NO.
1 <b>2-pole:</b> 6.3 mm phone plug male ↔ RCA/phono female. <b>BASIC</b>	CIKL-FM
2 <b>2-pole:</b> 6.3 mm phone plug 2-pole male ↔ RCA/phono female. <b>Metal housing</b>	HI-JM6CI-MF
3 <b>3-pole stereo:</b> 6.3 mm TRS phone plug male ↔ mini jack female. <b>Metal housing</b>	HI-JS6JS3-MF
4 <b>3-pole stereo:</b> 6.3 mm TRS phone plug male ↔ mini jack female. <b>Black brass housing, gold contacts</b> <b>NEW</b>	HI-JS6JS3-MF-SW



Flexible stereo adapter plug system converts 3.5 mm mini phone plug to 6.3 mm phone plug (headphones, DJ equipment, etc.)

**3.5 mm mini phone plug** with hard gold-plated pin, lockable via screw thread, solder version  
Black metal shell. Max. cable Ø 5.8 mm  
**incl. 6.3 mm phone plug adapter, gold-plated**  
Matching protective sleeve HI-KS28



DESCRIPTION	ORDER NO.
<b>3-pole stereo:</b> 3.5 mm mini phone plug + 6.3 mm phone plug adapter, stereo	HI-J3563S



Mini phone plug adapters 3.5 mm, male

Chrome-plated metal housing.

DESCRIPTION	ORDER NO.
5 <b>2-pole:</b> mini phone plug male ↔ RCA/phono female	HI-JM3CI-MF
6 <b>3-pole stereo:</b> mini phone plug male ↔ 6.3 mm phone jack female	HI-JS3JS6-MF
7 <b>3-pole stereo:</b> mini phone plug male ↔ 6.3 mm phone jack <b>Black brass housing, gold contacts</b> <b>NEW</b>	HI-JS3JS6-MF-SW



RCA/phono adapters 2-pole, male

DESCRIPTION	ORDER NO.
<b>2-pole:</b> RCA/phono male ↔ mini phone jack female <b>Metal housing</b>	HI-CIJM3-MF



RCA/phono adapters 2-pole, female

DESCRIPTION	ORDER NO.
<b>2-pole:</b> RCA/phono female ↔ RCA/phono female	HI-CICI-FF

CONNECTORS

HICON ▶ Digital Audio ▶ **TOSLINK (OPTICAL)****HICON**  
CONNECTORS

The **TOSLINK connector** was developed in 1983 by the Toshiba company (TOSHIBA-LINK).

This is a connection standard for optical signal transmissions of up to 20 Mbit/s. These days, it connects digital audio devices in the studio and home: from Blu-ray, DVD and CD players, to game consoles and home cinema/DTS receivers, along with studio ADAT systems.

Another optical connector variation in the 3.5 mm / 1/8" mini phone plug format which allows you to tap multi-channel home cinema signals from certain devices (such as notebooks).



Simply good vibes.

**SCREW  
+  
PLAY****TOSLINK plug for DIY assembly**

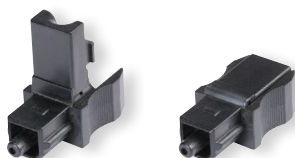
Black metal housing.  
Max. cable Ø 6.5 mm.  
Recommended cable: Polymer optical fiber  
**SC-Octopus 590-0092**

**DESCRIPTION**

TOSLINK plug

**ORDER NO.**

HI-TL01

**SCREW  
+  
PLAY****TOSLINK plug for DIY assembly**

Black metal housing.  
Max. cable Ø 6.0 mm.  
Recommended cable: Polymer optical fiber **SC-Octopus 590-0052**

**DESCRIPTION**

TOSLINK-Stecker

**ORDER NO.**

POF-TOS

**SYS BOXX | D****TOSLINK adapters**

Black housing.

**DESCRIPTION**

- 1 TOSLINK socket ↔ TOSLINK socket  
**Extension adapter**
- 2 TOSLINK socket ↔ TOSLINK socket  
**D flange format**
- 3 TOSLINK socket ↔ Mini plug
- 4 TOSLINK plug ↔ Mini socket

**ORDER NO.**

POF-709

POF-740

POF-711

POF-723

HICON ▶ Audio ▶ **MIDI / DIN****HICON**  
CONNECTORS

Incl. 2 coding rings  
in red and white

**MIDI connectors****DESCRIPTION**

- 1 MIDI cable plug, 5-pole, male
- 2 MIDI panel-mount socket, D-flange.  
Solder version, 5-pole, female

**ORDER NO.**HI-MIDI-CM **NEW**

HI-MIDI-FED

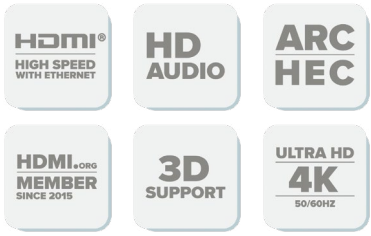


HICON ▶ A/V, MULTIMEDIA ▶ **HDMI CONNECTORS**

*HDMI connectors with extremely low contact resistances ...*

... for DIY assembly by certified specialists. Fitted to the **SOMMER CABLE** HDMI bulk cable **SC-TRANSIT High Speed HDMI with Ethernet**, the HDMI connector is the perfect solution for applications in professional media and in the home entertainment sector. The solder lugs sit on a printed circuit board with a large contact surface to prevent the often fragile circuit boards of the HDMI devices from being removed. The all-metal plug has a cable strain relief with protective sleeve. For DIY assembly, we recommend using a fine 1 mm / 0.039" solder tip. The easy to use IDC model (Insulation Displacement Connector = cut-and-clamp) is ideal for on-site installation.

Cable recommendation: **SC-TRANSIT-High Speed HDMI with Ethernet 612-0251**.  
Chrome-plated full metal housing.



DESCRIPTION	ORDER NO.
1 HDMI solder plug for DIY assembly for all current HDMI standards Max. cable Ø 10.2 mm	<b>HI-HD-M</b>
2 HDMI IDC connector for DIY assembly for all current HDMI standards Max. cable Ø 10.2 mm	<b>HI-HD-MSK</b>
3 Crimping pliers for HI-HD-MSK	<b>CZ-HI-HD-MSK</b>



**HDMI Patch panel jack**  
Nickel-plated metal housing. For all current HDMI standards.



DESCRIPTION	ORDER NO.
4 HDMI Patch panel jack D shape format	<b>HI-HDHD-FFDN</b>

CONNECTORS



HICON ▶ A/V, Multimedia ▶ **ANTENNA CONNECTORS****HICON**  
CONNECTORS*Self do, self have ...*

Most European TV and radio sets have that classic antenna connection for the reception of VHF (FM) and UHF signals.

For this **HICON** offers a high-grade high-end version with **real gold-plated** contacts and PTFE insulation. These ensure super low contact impedance values.



Simply good vibes.

CONNECTORS



x00428

**Antenna connector, real gold-plated, PTFE insulated. Solder version.**  
Metal housing, chrome-plated.  
Max. cable Ø 7.0 to 8.2 mm.  
Recommended cable: **SC-Astral 600-0960LLX**

DESCRIPTION	ORDER NO. male	ORDER NO. female
1 2-pole male	<b>HI-ANCM01</b>	-
2 2-pole female	-	<b>HI-ANCF01</b>

**SCREW  
+  
PLAY**

x00439

**F-connector screw & play, 2-pole, real gold-plated pin**  
Metal housing, matt black.  
Max. cable Ø 8.2 mm. With collet strain relief.  
Recommended cable: **SC-ASTRAL 600-0960LLX**



DESCRIPTION	ORDER NO.
32-pole male, PTFE insulated, screw & play for easy DIY assembly <b>Screw/clamp version</b>	<b>HI-FM07</b>



x00445

**F-connector, real gold-plated pin**  
Metal housing.  
Max. cable Ø 7.3 mm. With collet strain relief.  
Recommended cable: **SC-ASTRAL 600-0960LLX**

DESCRIPTION	ORDER NO.
2-pole male, PTFE insulated <b>Solder version</b>	<b>HI-FM08</b>



x00446

**F-connector Compression**  
Metal housing, chrome-plated.  
**Max. tensile force: 200 N.**

	Return loss	Shielding factor
1000 MHz	37 dB	110 dB
3000 MHz	28 dB	90 dB

DESCRIPTION	ORDER NO.
3 F-connector Compression for cables: <b>RG59, SC Focusline M 0.6/3.7, SC-Vector 0.8/3.7</b>	<b>FMC-3.7</b>
F-connector Compression for cables: <b>SC-Vector (RCB) 1.0/4.8, SC-Astral LLX</b>	<b>FMC-5.0</b>
F-connector Compression; water-proof, IP67 for cables: <b>SC-Vector (RCB) 1.0/4.8, SC-Astral LLX</b>	<b>FMC-5.0W</b>
Suitable seal cuff (outdoor installation) for: <b>FMC-5.0W</b>	<b>FMC-SEAL</b>
4 Suitable tool with cable stripper 6.5 mm + 6.5 mm Incl. 11 mm open-jaw wrench for: <b>F-connector Compression</b>	<b>WFMC11</b>



HICON ▶ A/V, Multimedia ▶ **ADAPTERS**



Most of the **HICON** video or A/V adapters shown here have a robust full-metal housing and are ideally suitable for professional applications in the media engineering sector.

Due to the high quality the **HICON** company grants a 5-year warranty on the metal housed adapters!  
The BASIC version is an economically priced plastic variant and not covered by the **HICON** guarantee.



**F-adapter**  
Metal housing



x00447

DESCRIPTION	ORDER NO.
F female ↔ F female	HI-FEFP

**SYS BOXX**



**F-adapter, patch version Ø 12,7 mm (1/2")**  
Metal housing.



x00448

DESCRIPTION	ORDER NO.
F female ↔ F female Fits into D-flange HI DET	HI-FEEP01



1



2



3

**F-, antenna adapter**  
Metal housing, 90° angled.



x00454

DESCRIPTION	ORDER NO.
1 F female ↔ F male 90° angled	HI-F-MF90
2 F female ↔ antenna female 90° angled	HI-FAN-FF90
3 F female ↔ antenna male 90° angled	HI-FAN-FM90



4



5



6

**BNC, antenna adapter**  
Metal housing.



x00457

DESCRIPTION	ORDER NO.
4 BNC female ↔ BNC female	HI-BNBN-FF
5 BNC female ↔ BNC male 90° angled	HI-BNBN-MF90HD <b>NEW</b>
6 5-pole female. Gold-plated contacts	HI-XMDM5



7



8



9

**BNC, RCA/phono adapter**  
Metal housing.



x00458

DESCRIPTION	ORDER NO.
7 BNC female ↔ RCA/phono female	HI-BNCI-FF
8 BNC female ↔ RCA/phono male	HI-BNCI-FM
9 BNC female ↔ RCA/phono female	HI-BNCI-FM

CONNECTORS

HIGON ▶ A/V, Multimedia ▶ ADAPTERS

## SYS BOXX



1



2



3

## DVI Gender Changer

## DESCRIPTION

- 1 DVI gender changer, compact, grey  
2 DVI gender changer, length 61 mm  
Incl. two longer UNC studbolts  
for front panel mounting  
3 DVI gender changer, angled version,  
adapter cable, 0.20 m

## ORDER NO.

HI-DVDV-FF

HI-DVDV-FFL

DVFFW-0020 **NEW**

x00460



4

## DVI adapter, BASIC

Black housing



5



6

## DESCRIPTION

- 4 DVI female ↔ HDMI male  
**BASIC**  
DVI female ↔ HDMI female  
**BASIC**  
5 DVI male ↔ HDMI female  
**BASIC**  
6 DVI male ↔ HD 15-pole (VGA) female  
**BASIC**

## ORDER NO.

DVHD-FM

DVHD-FF

DVHD-MF

DVS2-MF



x00461



7



8

## USB adapter

Black housing

SuperSpeed data transmissions up to 5 Gbit/s  
Downward compatible with USB 2.0 and 1.1

## DESCRIPTION

- 7 USB-C female ↔ USB 3.0 male  
8 USB-C male ↔ USB 3.0 female

## ORDER NO.

U3CA-FM

U3CA-MF



x01674



## HDMI ↔ USB-C 3.1 adapter

White housing

## DESCRIPTION

- HDMI female ↔ USB-C 3.1 male

## ORDER NO.

HDUC-FM



x00463

HICON ▶ A/V, Multimedia ▶ ADAPTERS



**HDMI adapter**  
White housing.

**DESCRIPTION**

HDMI male > SUB-D female

**ORDER NO.**

HDSV-MFC **NEW**

**SYS BOXX**



**HDMI adapter**, black housing.

**DESCRIPTION**

- 1 HDMI female ↔ HDMI female  
**Gender changer, UNC thread**
- 2 HDMI female ↔ HDMI Mini male
- 3 HDMI female ↔ HDMI Micro male

**ORDER NO.**

HI-HDHD-FF  
HDHM-FM  
HDMM-FM



**HDMI cable adapters**

**DESCRIPTION**

- HDMI female in VGA flange housing ↔  
HDMI female, 0.20 m
- 4 HDMI female in VGA flange housing, angled ↔  
HDMI female, 0.20 m
- 5 HDMI female in VGA flange housing ↔  
HDMI male, 0.30 m
- HDMI female in VGA flange housing ↔  
HDMI male, 0.50 m

**ORDER NO.**

HI-HDFF-0020-SW **NEW**  
HI-HDFFW-0020-SW **NEW**  
HI-HDFM-0030-SW  
HI-HDFM-0050-SW



**HDMI Angled adapters**  
Gold-plated contacts. Black plastic housing.

**DESCRIPTION**

- 6 HDMI male ↔ HDMI female  
**Outlet 90° to right**
- 7 HDMI male ↔ HDMI female  
**Outlet 90° to left**
- 8 HDMI male ↔ HDMI female  
**Outlet 90° upward**
- 9 HDMI male ↔ HDMI female  
**Outlet 90° downward**

**ORDER NO.**

HDHD-MF90HR  
HDHD-MF90HL  
HDHD-FM90V  
HDHD-MF90V

*Softly the snow is falling ...*

The longer the HDMI transmission distances, the greater the attenuation losses will be, up to total signal failure. In the borderline zone the picture will become more and more "wintery with drizzling snow" that leads to a so-called picture noise. The repeater provides a signal gain up to an **overall length of 40 m**. With such long distances we recommend an HDMI cable cross-section of AWG 24. The input length can be 5 m max. – **another 35 m** can be connected at the output. We point to the fact that the max. transmission length will depend on the quality of cables and workmanship as well as the signal transmission of the peripheral equipment.

**Passive HDMI repeater for formats up to 4K @ 30Hz**  
Black housing. Without power supply.



**DESCRIPTION**

HDMI female ↔ HDMI female

**ORDER NO.**

HI-HDHD-RPT

CONNECTORS

HICON ▶ A/V, Multimedia ▶ ADAPTERS

HICON  
CONNECTORS

1



2



3



4



5



6

**Mini DisplayPort adapter**

White housing.

DESCRIPTION	ORDER NO.
1 Mini DisplayPort male ↔ DVI-D 24+5 single link female	<b>MDDV-MF</b>
2 Mini DisplayPort male ↔ HDMI female	<b>MDHD-MF</b>
3 Mini DisplayPort 1.4 male ↔ HDMI female, black	<b>MDHD-MF-1420</b>
4 Mini DisplayPort male ↔ SUB-D female <b>Please note:</b> not every device supports VGA on the Mini DisplayPort output.	<b>MDSV-MF</b>
5 Mini DisplayPort female ↔ DisplayPort male	<b>MDDP-FM</b>
6 Mini DisplayPort male ↔ HDMI female + DVI female + DisplayPort female	<b>MDXX-MF</b>



x00468

**DisplayPort adapter**

Black housing.



x00469

DESCRIPTION	ORDER NO.
DisplayPort male ↔ HDMI female	<b>DPHD-MF</b>



x00471

**DisplayPort adapter cable**

DESCRIPTION	ORDER NO.
DisplayPort female in VGA flange housing ↔ DisplayPort female, 0.15 m	<b>HI-DPFF-0015-SW</b>

HICON ▶ Video ▶ DIN1.0/2.3

HICON  
CONNECTORS

SDI/HD-SDI 3G-SDI

**Mini HF crimp connector 75 Ω** for use in measurement and video transmission technology.  
Brass housing, nickel-plated; gold-plated pin; push/pull locking  
For cable: SC-Vector 0.8/3.7



x01603

DESCRIPTION	ORDER NO.
DIN 1.0/2.3 male	<b>NEW HI-DIN1.0/2.3</b>



HICON ▶ Video ▶ **BNC CONNECTORS****HICON**  
CONNECTORS

The **BNC** (Bayonet Neill Concel–man) connector is among the best known coaxial connectors and was invented in the late 1940s. It is available with a wave impedance of 50 or 75 Ω and used primarily in radio, video, medical, and computer engineering. Our connectors meet the specifications according to IEC 169-8, MIL-C-39012.

The frequency range of the 50-Ω BNC connectors extends to 4 GHz. The 75-Ω standard BNC connectors reach 1 GHz, and the HDTV variant is designed for applications of 1.5 GHz max.

**0.6/3.7? I don't know what it should mean**

The statement "3.7" is the diameter of the wire insulation (square), the "0.6" refers to the diameter of the copper wire (hex). But watch out! Diameter is not the same as wire cross-section! When working with a flexible cable with Cu wires, you need to make sure that the wire cross-section equals the diameter "0.6 mm"! Formula:  $\varnothing = \sqrt{(4 \times \text{cross-section}) : \pi}$   
The **HT crimpset** is an affordable crimping pliers toolcase for the standard BNC sizes.

More crimp tools can be found in the "Mechanics and Accessories" chapter in the **SOMMER CABLE** general catalog.

The products marked with the **SYSBOXX** logo are compatible with our **SYSBOXX** module series (see: [www.sommercable.com](http://www.sommercable.com)) and our recessed **HI DET.0.6/3.7 universal D-flange**.

Material inner conductor:	CuNi2 Au0,8
Material housing:	Cu2Ni5
Material Insulation:	PTFE
Temperature range:	-65°C ... +165 °C
Insulation resistance:	5 GΩ
Resistance inner and outer conductor:	each < 2 MΩ



CONNECTORS

**BNC cable plug Crimp 50**

Metal housing.

Suitable tool: **HT-CRIMPSET**

1



x00473

**DESCRIPTION**

- |   | DESCRIPTION  | ORDER NO.           |
|---|--|---------------------|
| 1 | 2-pole, male<br>for cable: RG58 C/U, color grommet KS58        | <b>BNC58</b>        |
|   | 2-pole, male<br>for cable: RG58 C/U LL, color grommet KS58     | <b>BNC58LL</b>      |
|   | 2-pole, male<br>for cable: RG174/U, 316/U, color grommet KS174 | <b>BNC174</b>       |
|   | 2-pole, male<br>for cable: RG213/U                             | <b>BNC213</b>       |
|   | 2-pole, male<br>for cable: RG213/U LL                          | <b>NEW BNC213LL</b> |

**BNC cable plug Crimp 50 , 90° angled with solder pin**

Metal housing.

Suitable tool: **HT-CRIMPSET**

2



x00474

**DESCRIPTION**

- |   | DESCRIPTION   | ORDER NO.             |
|---|---|-----------------------|
| 2 | 2-pole, male, 90° angled<br>for cable: RG58 C/U, color grommet KS58 | <b>BNC58M90</b>       |
|   | 2-pole, male, 90° angled<br>for cable: RG213/U LL                   | <b>NEW BNC213LL90</b> |

**BNC cable socket Crimp 50**

Metal housing.

Suitable tool: **HT-CRIMPSET**

x00475

**DESCRIPTION**

- |  | DESCRIPTION   | ORDER NO.      |
|--|---|----------------|
|  | 2-pole, female<br>for cable: RG58 C/U, color grommet KS58 | <b>BNC58FK</b> |

**SYS BOXX****SYS BOXX** D**BNC installation socket Crimp 50 Ω**

Metal housing.

Suitable tool: **HT-CRIMPSET**. Matching color coding: **BNC-FC...**

3

4



x00478

**DESCRIPTION**

- |   | DESCRIPTION   | ORDER NO.       |
|---|---|-----------------|
| 3 | 2-pole, female<br>for cable: RG58 C/U, <b>isolated ground</b>                                       | <b>BNC58FEM</b> |
|   | 2-pole, female<br>for cable: RG58 C/U, <b>without ground isolation</b>                              | <b>BNC58FEO</b> |
| 4 | 2-pole, female, <b>D-flange</b> metal with M3 thread<br>for cable: RG58 C/U, <b>isolated ground</b> | <b>BNC58FD</b>  |

HICON ▶ Video ▶ BNC CONNECTORS

HICON<sup>®</sup>  
CONNECTORS

1



x00482

**BNC cable plug Crimp 75 Ω**

Metal housing.

Suitable tool: **HT-CRIMPSET****DESCRIPTION****ORDER NO.**

1	2-pole, male for cables: Cinema-SV, Transit Mini Flex, -Mini Kombi, -Mini Control, Intercom, RG179A/U, SC-Monomax, Transit MC72491, 73251, color grommet KS174	<b>BNC0.3/1.8</b>
	2-pole, male for cables: SC-Monomax 0.41/1.9 (no matching color grommet), RG179FEP (color grommet KS174)	<b>NEW</b> <b>BNC0.4/1.9</b>
	2-pole, male for cables: SC-Slimline (RCB), Transit, Transit MC523HD, Transit MC8232, color grommet KS58	<b>BNC0.6/2.8HD</b>
	2-pole, male for cables: SC-Focusline, SC-Altera-Split, Transit MC120, Transit MC 123 HD, SC-Classic Control, color grommet KS59	<b>BNC0.6/3.7</b>
	2-pole, male for cable: RG6/U	<b>BNC6</b>
	2-pole, male for cables: RG59B/U, SC-Classic Control, color grommet KS59	<b>BNC59</b>



2

3



x00484

**BNC cable plug Crimp 75 Ω, 90° angled**

Metal housing.

Suitable tool: **HT-CRIMPSET****DESCRIPTION****ORDER NO.**

2	2-pole, male, 90° angled for cables: Cinema-SV, Transit Mini Flex, -Mini Kombi, -Mini Control, SC-Kinetic, Intercom, RG179A/U, SC-Monomax, Transit MC72491, 73251, color grommet KS174	<b>BNC0.3/1.8M90</b>
3	2-pole, male, 90° angled with solder lug for cables: SC-Focusline, SC-Altera-Split, Transit MC120, Transit MC 123 HD, SC-Classic Control; RG59B/U, color grommet KS59	<b>BNC59M90</b>

**The pin assembly is done by plug-in/clamping technology, the outer sleeve is crimped. Caution: litz wires must be tinned before assembly.**



4



x00486

**BNC cable socket Crimp 75 Ω**

Metal housing.

Suitable tool: **HT-CRIMPSET****DESCRIPTION****ORDER NO.**

4	2-pole, female for cables: Cinema-SV, Transit Mini Flex, -Mini Kombi, -Mini Control, SC-Kinetic, Intercom, RG179A/U, SC-Monomax, Transit MC72491, 73251, color grommet KS174	<b>BNC0.3/1.8FK</b>
	2-pole, female for cables: SC-Slimline (RCB), Transit, Transit Kombi HD, Observer1 HD, Transit MC523HD, Transit MC8232, color grommet KS58	<b>BNC0.6/2.8FK</b>
	2-pole, female for cables: RG59B/U, SC-Classic Control, color grommet KS59	<b>BNC59FK</b>

SYS BOXX

SYS BOXX D



5

6



x00488

**BNC cable installation socket Crimp 75 Ω** Metal housing.Suitable tool: **HT-CRIMPSET**. Matching color coding: **BNC-FC-...****DESCRIPTION****ORDER NO.**

5	2-pole, female, <b>isolated ground</b> for cable: RG59 B/U, SC-Classic Control	<b>BNC59FEM</b>
	2-pole, female, <b>without ground isolation</b> for cable: RG59 B/U, SC-Classic Control	<b>BNC59FEO</b>
6	2-pole, female, <b>D-flange</b> Metal with M3 thread* for cables: RG59 B/U, SC-Classic Control	<b>BNC59FD</b>

HICON ▶ Video ▶ BNC CONNECTORS



**BNC59 cable plug, real gold-plated contacts. Solder version**  
Metal housing, PTFE-insulated, max. cable diameter 6.4 mm (0.252")

DESCRIPTION	ORDER NO. male	ORDER NO. female
1 2-pole male for cables: SC-Focusline, SC-Altera-Split, Transit MC120, SC-Classic Control; RG59B/U	HI-BNC59MG	-
2 2-pole female for cables: SC-Focusline, SC-Altera-Split, Transit MC120, SC-Classic Control; RG59B/U	-	HI-BNC59FG

SYS BOXX D



Application example



Color code rings for D-flange FDH and FPD versions

COLOR	ORDER NO. per pc.	COLOR	ORDER NO. per pc.
Red	HI-DR-RT	Grey	HI-DR-GR
Orange	HI-DR-OR	White	HI-DR-WS
Yellow	HI-DR-GE	Mint green	HI-DR-MN
Brown	HI-DR-BR	Pink	HI-DR-PN
Green	HI-DR-GN	Violet	HI-DR-VI
Blue	HI-DR-BL	Black	<b>NEW</b> HI-DR-SW

Bend reliefs

... for all BNC connectors (except BNC213 and BNC1.0/6.6) are available in the colors red (RT), green (GN), blue (BL), yellow (GE), brown (BR), grey (GR), black (SW), white (WS), orange (OR), violet (VI), und turquoise (CY). Please order separately with indication of the color. Order example: KS58-RT



DESCRIPTION

DESCRIPTION	ORDER NO.
for: BNC 58 and BNC 0.6/2.8 <b>Note:</b> Not available in grey	KS58-COLOR
for: BNC 59, BNC 0.6/3.7, BNC 0.8/3.8	KS59-COLOR
for: BNC 174, BNC 0.3/1.8, BNC 0.4/2.5 <b>Note:</b> Available only in red, green, blue, black, and white	KS174-COLOR
for: BNC 1.2/5.0	KS1250-COLOR
for: BNC 1.3/5.7 <b>Note:</b> Available only in green and black	<b>NEW</b> KS1357-COLOR
for: BNC 1.6/7.3	KS1673-COLOR

Bend reliefs, universal

with BNC complete protection and REAR-LOCK function for close connection distances suitable for all BNC cable plugs and RG/video cables with a max. cable diameter of 6.2mm with splash guard function Available in these colors:  
blue (BL), yellow (GE), green (GN), red (RT), black (SW), violet (VI)

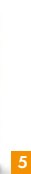


DESCRIPTION

DESCRIPTION	ORDER NO.
for all BNC cable plugs	<b>NEW</b> KS-UNI-COLOR

Coax crimp tool set in case

consisting of the following parts:  
1 x crimping pliers for change jaws +  
5 x jaw set for BNC crimp connectors:  
1. RG58, RG174, FiberOptic, F2, F3, F5  
2. RG58, RG59, RG62, RG174, RG140, FiberOptic  
3. RG174, RG178, RG179, FiberOptic  
4. RG8, RG9, RG11, RG174, RG316, RG213, RG216, BNC 1.2/5.0 alle, BNC 1.6/7.3 alle  
5. RG58, RG174, SMA, SMB  
Including stripper and case for pliers & jaw sets.  
(Hex measurements – see website)



DESCRIPTION

DESCRIPTION	ORDER NO.
3 Crimp tool set in case	HT-CRIMPSET
4 Replacement crimp tool without jaws	HT-CRIMPTOOL

Tool for mounting BNC connectors in D-flange HI DET

Metal version.



DESCRIPTION

DESCRIPTION	ORDER NO.
5 Tool for mounting BNC connectors in the recessed HI DET D-flange	WSW16

CONNECTORS

HICON ▶ Video ▶ **BNC connectors 6G-SDI for mounting without a crimp tool****HICON**  
CONNECTORS**Onto the plug – screw tight – go: easy mounting without a crimp tool!**

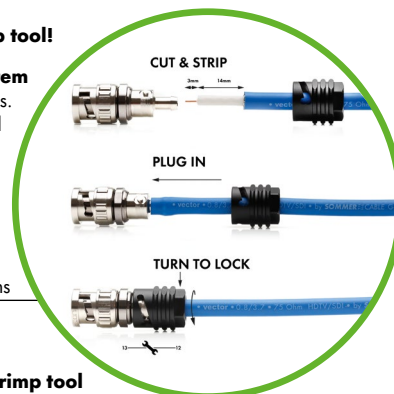
The **HICON BNC0.8/3.7-6G-SM** connector uses a **revolutionary plug-in system** which greatly simplifies the assembly of BNC and RG cables. You don't need a bulky crimp tool any more; instead the connector is mounted onto a 0.8/3.7 video cable (e.g. **SOMMER CABLE VECTOR 600-0162**) simply by hand or with two wrenches (size 12 mm and 13 mm)! (For detailed mounting instructions see introductory pages or online after scanning the QR code).

**SCREW  
+  
PLAY**

x01676

3G-SDI | SDI/HD-SDI | HDTV

Assembly instructions



**6G-SDI broadcast, BNC cable plug Crimp 75 Ω**  
with plug-in connection for mounting without a crimp tool  
Housing: nickel-plated, black plastic cap, gold-plated pin

**DESCRIPTION**

6G-SDI, 2-pole, male  
for cable: SC-Vector 0.8/3.7, color grommet KS59  
(Suitable tool: HT-CRIMPSET)

**ORDER NO.****NEW** BNC0.8/3.7-6GHICON ▶ Video ▶ **BNC connectors 3G-SDI / 6G-SDI****HICON**  
CONNECTORS*So test therefore who join the universal way ...***Higher – faster – farther ...****HICON UHD/3G/HD SDI BNC connectors**

While RG and video connectors for the analog sector are relatively easy to produce, the currently demanded 3G/6G/12G standards require a high-grade, high-precision manufacturing technology which can ensure extremely small tolerances. The adequate machines are mostly made in Germany and also give the **HICON** connector production a touch of class.

As one of a handful of manufacturers **HICON** does not only offer cable plugs, but also installation sockets in the common formats as attenuation-optimized, direct crimp versions.

The **HICON BNC-HD** and 6G connectors for the serial digital video transmission fall into the small range of **top-class** connectors on the market and are technically on the highest level, reason why they are used in many broadcast/HDTV transmissions.

The **HICON HD-SDI** and **6G-SDI** series has not only a **gold-plated pin**, but also features a **hard gold-plated shielding housing** to keep the skin effect as low as possible.

The contact pin has a special microfine spiraled chamfer on the inside which locks the copper conductor after crimping and ensures an excellent bonding. The hard gold-plating and the axial contact pressure guarantee thousands of mating cycles and defy even the most adverse conditions and temperature differences as they often occur in outdoor applications or in the broadcast field transmission.

**APPLICATIONS:**

- Professional broadcast transmission technology
- Digital studio technology
- Telecommunications/data engineering
- Medical engineering
- UHD transmissions (6G-BNC)

**TECHNICAL SPECIFICATIONS**

	<b>HD (3G)</b>	<b>6G</b>
Insulation:	S-PTFE	S-PTFE
Wave impedance:	75 Ω	75 Ω
Reflection @ 3 GHz:	4,8 %	2,8 %
Reflection @ 6 GHz:	7,5 %	4,5 %
VSWR up to 3 GHz:	≤ 1,09/>26 dB	≤ 1,06/>32 dB
VSWR up to 6 GHz:	≤ 1,15/>24 dB	≤ 1,09/>29 dB
Impedance inner conductor:	≤ 3 MΩ	≤ 3 MΩ
Impedance outer conductor:	≤ 1 MΩ	≤ 1 MΩ
Insulation resistance @1.000 V:	≥ 5 GΩ	≥ 5 GΩ
Nominal voltage:	500 V	500 V
Operating temperature range:	-60°C ... +160°C	
Mating cycles/service life:	>1500	>2000

**HD-SDI/3G-SDI-Broadcast, BNC cable plug Crimp 75 Ω,**  
**hard gold-plated contact areas, 4 μm, core thread in pin receptacle**  
Housing: brass/beryllium bronze, corrosion-resistant finish.

**DESCRIPTION**

**1** HD-SDI/3G-SDI, 2-pole, male  
for cables: SC-Slimline (RCB), Transit, Transit Kombi HD, Observer1 HD, Transit MC5230HD, Transit MC5231HD06  
(Suitable tool: HT-CRIMPSET), color grommet KS58

**ORDER NO.****BNC0.6/2.8HD**

HD-SDI/3G-SDI, 2-pol, male  
for cables: SC-Vector 0.8/3.7, Transit MC223HD  
(Suitable tool: HT-CRIMPSET), color grommet KS59

**BNC0.8/3.7HD**

HD-SDI/3G-SDI, 2-pole, male  
for cables: SC-Vector Plus 1.2L/5.0, SC-Vector Plus 1.2L/4.8DZ, SC-Astral LLX, Transit MC3031, Transit MC3231  
(Suitable tool: HT-CRIMPSET), color grommet KS1250

**BNC1.2/5.0HD**

HD-SDI/3G-SDI, 2-pol, male  
for cable: SC-Vector Plus RCB 1.6L/7.3  
(Suitable tool: HT-CRIMPSET), color grommet KS1673

**BNC1.6/7.3HD**

1



x00503

3G-SDI | SDI/HD-SDI | HDTV



## HICON ▶ Video ▶ BNC CONNECTORS 3G-SDI / 6G-SDI

HICON  
CONNECTORS**6G-SDI broadcast, BNC cable plug Crimp 75 Ω, hard gold-plated contact areas, 4 μm, core thread in pin receptacle**

Housing: brass/beryllium bronze, hard gold-plated, corrosion-resistant finish.



1



x00505

6G-SDI

3G-SDI

SDI/HD-SDI

HDTV

**DESCRIPTION**

**1** 6G-SDI, 2-pole, male  
for cables: SC-Vector 0.8/3.7, SC-Focusline PUR, Transit MC2235,  
color grommet KS59 (Suitable tool: HT-CRIMPSET)

6G-SDI, 2-pole, male  
for cables: SC-Vector Plus 1.2L/5.0, SC-Vector Plus 1.2L/4.8DZ,  
SC-Astral LLX, Transit MC3031, Transit MC3231, color grommet KS1250  
(Suitable tool: HT-CRIMPSET)

6G-SDI, 2-pole, male  
for cable: SC-Vector Plus 1.3/5.7 4K, color grommet KS1673-COLOR  
(Suitable tool: HT-CRIMPSET)

6G-SDI, 2-pole, male  
for cables: SC-Vector Plus 1.6L/7.3, SC-Vector Plus 1.6/7.0,  
color grommet KS1673 (Suitable tool: HT-CRIMPSET)

**ORDER NO.****BNC0.8/3.7-6G****BNC1.2/5.0-6G****NEW BNC1.3/5.7-6G****BNC1.6/7.3-6G**

SYS BOXX D

SYS BOXX



3



x00508

3G-SDI

SDI/HD-SDI

HDTV

**HD-SDI/3G-SDI broadcast, BNC installation socket Crimp 75 Ω, hard gold-plated contact areas 4 μm, core thread in pin receptacle**

Housing: brass/beryllium bronze, hard gold-plated, corrosion-resistant finish.



2

**2 ORDER NO.  
fits into  
D-flange****3 ORDER NO.  
with D-flange metal  
with M3 thread****DESCRIPTION**

HD-SDI/3G-SDI, 2-pole, female, **isolated ground**, **BNC0.6/2.8FEH**  
for cables: SC-Slimline (RCB), Transit,  
Transit Kombi HD, Observer1 HD,  
Transit MC5230HD, Transit MC5231HD06

HD-SDI/3G-SDI, 2-pole female, **isolated ground**, **BNC0.8/3.7FEH**  
for cable: SC-Vector 0.8/3.7

HD-SDI/3G-SDI, 2-pole female, **isolated ground**, **BNC1.2/5.0FEH**  
no color code possible (not shown),  
for cables: SC-Vector Plus 1.2/5.0,  
SC-Vector Plus 1.2/4.8DZ, SC-Astral LLX,  
Transit MC3031, Transit MC3231

HD-SDI/3G-SDI, 2-pole female, **isolated ground** **BNC1.6/7.3FEH**  
(not shown), for cable:  
SC-Vector Plus RCB 1.6L/7.3, 1.6/7.1

**BNC0.6/2.8FEH****BNC0.6/2.8FDH****BNC0.8/3.7FEH****BNC0.8/3.7FDH****BNC1.2/5.0FEH****BNC1.2/5.0FDH****BNC1.6/7.3FEH****BNC1.6/7.3FDH**

SYS BOXX D

SYS BOXX



4



x00509

**BNC installation socket, patch version for all 50 Ω patch cables**Metal housing. Matching color coding: **BNC-FC-...****DESCRIPTION**

**4** 2-pole, female  
**Isolated ground**

**5** 2-pole, female, with **D-flange** metal with M3 thread  
**Isolated ground**

**ORDER NO.****BNC-FP50****BNC-FP50D****BNC installation socket, patch version for all 75 Ω patch cables**Metal housing. Matching color coding: **BNC-FC-...****DESCRIPTION**

**4** 2-pole, female,  
**Isolated ground, HDTV model**

**5** 2-pole, female, with **D-flange** metal with M3 thread  
**Isolated ground, HDTV model**

**ORDER NO.****BNC-FP-HD****BNC-FPD-HD**

x01677

**HD-SDI/3G-SDI Broadcast, Micro BNC cable plug Crimp 75 Ω, hard gold-plated contact areas, 4 μm, core thread in pin receptacle**

Housing: brass/beryllium bronze, hard gold-plated, corrosion-resistant finish.

**DESCRIPTION**

HD-SDI/3G-SDI, 2-pole, male  
for cable: SC-Vector 0.8/3.7  
(suitable tool: HT-CRIMPSET)

**ORDER NO.****NEW BNC0.8/3.7M-HD**

x01722

**HD-SDI/3G-SDI Broadcast, Mini BNC cable plug Crimp 75 Ω, hard gold-plated contact areas, 4 μm, core thread in pin receptacle**

Housing: brass/beryllium bronze, hard gold-plated, corrosion-resistant finish.

**DESCRIPTION**

HD-SDI/3G-SDI, 2-pole, male  
for cable: SC-Monomax 0.41/1.9  
(suitable tool: HT-CRIMPSET)

**ORDER NO.****NEW BNC0.4/1.9M-HD**

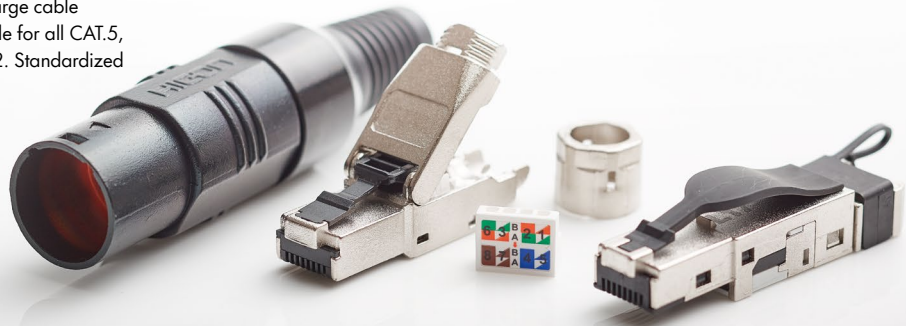
HICON ▶ Data/Network ▶ **RJ45****HICON**  
CONNECTORS

The **RJ45** connector (ISO/IEC 11801) was custom-designed for the data transmission in networks, but also today's digital audio and video transmission world cannot be imagined without it any more where it increasingly takes on the role as the universal connector in network (10BaseT, 100BaseTX, Gbit ethernet) and media engineering.

Apart from the selected RJ45 quality connectors by HIROSE we offer you the ONESIZE universal connectors which are mounted fast and easily by means of a tool-free IDC clamping/cutting system. Ideal for the -mobile field and road use and also for connection solutions with large cable cross-sections for long cable paths, incl. strain relief. Suitable for all CAT.5, CAT.6a, CAT.7 patch and installation cables up to AWG22. Standardized according to ISO / IEC 11801:2002.

For these RJ45 connectors (exception: RJ45CMXL-GR) **HICON** offers a sturdy protective housing system for mobile applications.

**For matching surface- and flush-mounted frames please look at "Multicore and Distribution Systems" > "Network Junction Boxes" and "Modular Systems" > "SYSWALL".**



CONNECTORS



„No strain relief, only for permanent installation, not for mobile applications“

**RJ45 ONESIZE plug**

Metal housing, **IDC clamping/cutting, tool-free assembly**, also for **Power over Ethernet (POE+)** applications, standardized pursuant to ISO/IEC 1180.

Assignment/color coding according to TIA/EIA 568A and 568B  
Matching RJ45 protective housing: HI-C6XL-HD

**DESCRIPTION**

**1** RJ45 ONESIZE plug, **CAT6a/10 Gbit/IP20**, metal  
Recommended cable: SC-Mercator CAT.7/CAT.7a,  
**max. cable Ø 5.5 – 8.5 mm**, max. AWG 22

**ORDER NO.****RJ45C6XL**

RJ45 ONESIZE plug, **CAT6a/10 Gbit/IP20**, metal  
Recommended cable: SC-Mercator CAT.7/CAT.7a,  
**max. cable Ø 5.5 – 10.0 mm**, max. AWG 22

**RJ45C6XL-TG****NEW**

**2** RJ45 ONESIZE plug, **CAT.8.1/40 Gbit, GHMT-certified**, metal  
innovative housing concept with four-direction cable outlet,  
Recommended cable: SC-Mercator CAT.8.1 B2ca,  
**max. cable Ø 5.0 – 8.5 mm**, AWG 22 - 26

**RJ45C8XL****NEW****HICON**  
CONNECTORS

x00515

**HICON RJ45 protective housing in XLR design**

... matches NEUTRIK D-flange RJ45 installation sockets

Connector housing: full-metal, black. Delivery without RJ45 connector.

**DESCRIPTION**

**1** Connector housing XLR format for standard RJ45  
**max. cable Ø 8.2 mm** RJ45 recommendation: RJ45C6A-SW

**ORDER NO.****HI-RJ45-HD**

Connector housing XLR format, **max. cable Ø 8.2 mm**  
suitable for the RJ45 connector RJ45C6-XL and our SC-Mercator CAT.7  
PUR XL, 581-0251 network cable >> the perfect system for digital mobile  
applications with long transmission distances and high performance

**HI-C6XL-HD**

x00516

**Accessories for HI RJ45-HD and HI C6XL-HD****DESCRIPTION**

**2** Seal cap (thermoplastic rubber TPG)

**COLOR**

■ Black

**ORDER NO.****CAP-19MM**

**3** Color coding

■ Red

**HI-RC-RT**

■ Yellow

**HI-RC-GE**

■ Green

**HI-RC-GN**

■ Blue

**HI-RC-BL**

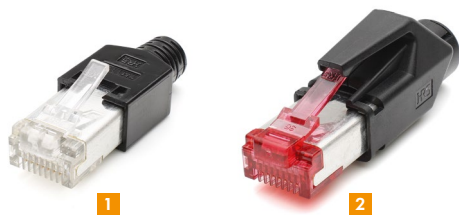
■ Grey

**HI-RC-GR**

■ Black

**HI-RC-SW**

HICON ▶ Data/Network ▶ RJ45

HICON  
CONNECTORS**RJ45 Quality connector, crimp version**

... suitable for our twisted pair cables.

Suitable pliers: CZ-RJ45HR

Suitable RJ45 protective housing: HI RJ45-HD

Colored versions available on request

**DESCRIPTION**

- |   | DESCRIPTION   | ORDER NO.         |
|---|---|-------------------|
| 1 | HIROSE CAT.5e, 150 MHz,<br>max. cable Ø 5.8 mm, max. AWG26/7<br>Recommended cable: SC-Mercator CAT.5e PUR and CAT.7 PUR | <b>RJ45C5E-SW</b> |
| 2 | HIROSE CAT.6, 250 MHz,<br>max. cable Ø 6.6 mm, max. AWG24/7<br>Recommended cable: SC-Mercator CAT.7 PUR                 | <b>RJ45C6-SW</b>  |

**HIROSE CAT.6a, crimp version**

500 MHz, 10 Gbit

Suitable pliers: CZ-RJ45HR

Recommended cable: SC-Mercator CAT.7 PUR, 581-0071

Suitable RJ45 protective housing: HI RJ45-HD

Please specify your desired grommet color with your order:  
black (SW), grey (GR), blue (BL), red (RT), green (GN).**DESCRIPTION**

DESCRIPTION	ORDER NO.
HIROSE CAT.6a, 500 MHz, max. cable Ø 6.6 mm, max. AWG24/7	<b>RJ45C6A-COLOR</b>

**RJ45 ONESIZE connector, CAT.6**

Black plastic.

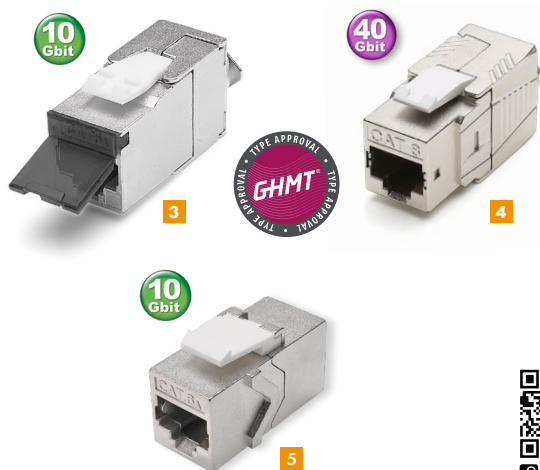
IDC clamp/cut, tool-free assembly.

CAT.6/IP20.

Wiring pursuant to T568B.

**DESCRIPTION**

DESCRIPTION	ORDER NO.
RJ45 ONESIZE connector, plastic Kabel Ø 5.5–8.0 mm, max. AWG26-23	<b>RJ45CM6-SW</b>

**RJ45 ONESIZE socket, Keystone SnapIn format**Tool-free assembly, **GHMT-certified**,also for **Power over Ethernet (POE+)** applications,  
standardized pursuant to ISO/IEC 11801.Assignment/color coding according to TIA/EIA 568A and 568B,  
cable tie included**DESCRIPTION**

- |   | DESCRIPTION   | ORDER NO.  |
|---|---|--|
| 3 | RJ45 ONESIZE socket, <b>CAT.6a/10 Gbit, GHMT-certified</b> ,<br>Dust cap & cable tie included<br>Recommended cable: SC-Mercator CAT.7 / CAT.7a<br>Max. cable Ø 9 mm, AWG26/1-AWG22/1<br>and AWG27/7-AWG22/7 | <b>RJ45CFXL-P1</b><br>(VPE 1 pc.)<br><b>RJ45CFXL-P8</b><br>(VPE 8 pc.) |
| 4 | RJ45 ONESIZE socket, <b>CAT.8.1/40 Gbit, GHMT-certified</b> ,<br>metal, recommended cable: SC-Mercator CAT.8.1 B2ca,<br>cable Ø 7.0 – 8.5 mm, AWG 22 - 24   | <b>RJ45CF8XL</b><br><b>NEW</b>   |
| 5 | RJ45 ONESIZE <b>patch socket</b> ,<br>CAT.6a/10 Gbit  | <b>KST-RJ45C6A-P</b>   |

**NEUTRIK EtherCON adapter RJ45<->RJ45**

10 Gbit, complies with ISO/IEC 11801 and TIA/EIA 568-C.2

**DESCRIPTION**

DESCRIPTION	ORDER NO.
RJ45 Ethernet adapter	<b>NEW</b> <b>NE8FFX6-W</b>

NEUTRIK

CONNECTORS



HICON ▶ Data/Network ▶ LWL/FIBER

HICON<sup>®</sup>  
CONNECTORS

Simply good vibes.

### Great optical perspectives ...

is what you'll get with the HICON HI FIBER connector because it fits all 4 fiber cables, and with a little practice you can even carry out an on-site repair yourself.

Our road-proof HICON HI FIBER connector system is based on four optical LC fiber lines which are protected by a robust, compact metal housing technology.

It consists of a cable plug and an installation socket in the compact D flange format which can also be used as a universal cable coupler for extension (cascading) purposes. You can also use the socket to connect the HICON HI FIBER system with up to four conventional LC cables (or else two LC-duplex cables) and link it to existing LC systems – simply plug in the LCs and you're ready to go!

The **HI FIBER4-MC** cable plug can be fitted with up to four LC connectors which are assembled after inserting the cable and then plugged into the quad fixture. The seal cap and a spring-loaded protection sleeve save the sensitive fiber system from dirt and damages.

The cable plug is simply plugged onto the socket in the marking direction and locked via push-pull by pushing the lock ring forward.

For the strain relief and sleeve protection we use our proven standard M16 x 1,5 cable gland which can easily hold all commercially available 4-fiber cable diameters from 5–9 mm (industrial property rights applied for).

If you have good assembly skills with LC connectors, you can also finish the **HI FIBER4 MC** yourself. However, we suggest our reasonably priced half-day trainings at the **SOMMER** premises where, in addition to a certificate, you can also take home some tricks and tool recommendations.

With your certification you will automatically become a member of our HI FIBER support network that every user can call up on our website, e.g. in case of an on-site average.

On the front pages of the **SOMMER CABLE** general catalog under "**Cable Bulkware**" you will find suitable 4 fiber cables for installation (PE, LSZH) and mobile applications (PUR, PMB). Completely ready-made HI FIBER systems are offered in the chapters "**Premade Cables**" and "**Multicore & Distribution Systems**".



### YOUR BENEFITS AT A GLANCE:

- **robust, compact field connection system** for optical transmissions
- including **seal cap** against pollutions
- convenient **push-pull quick lock**
- sealed system with **IP68 protection class** in mated condition
- **high packing density**, installation socket in **D-flange format** – rear mountable
- **installation socket** and **universal cable coupler in one**
- **easy connection** to existing LC systems
- finishable and revisable by every skilled fiber optic technician (LC)
- reasonably priced user assembly trainings

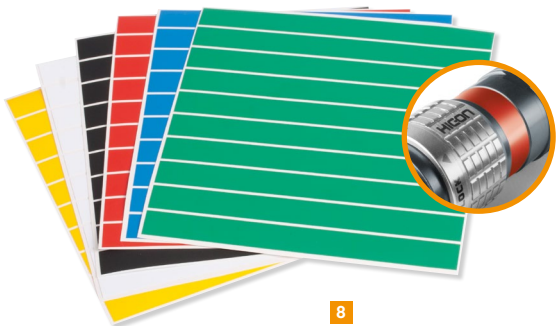




HICON ▶ Data/Network ▶ LWL/FIBER



DESCRIPTION	ORDER NO.
<b>1 quadruple LC cable plug housing, IP68 protection class</b> incl. seal cap, without LC connector. For cable Ø 5–9 mm. Recommended cable: SC-Octopus-G 590-0111-04(-OM3) and 590-0311-04(-OM3) Matching color code rings: HI UC-color. More information can be found on the HICON overview page at the beginning of the chapter	<b>HI-FIBER4-MC</b>
<b>2 &amp; 3 LC connector, suitable for HI FIBER4-MC,</b> (for full capacity 4 items are needed):	
<b>2 For multimode fibers of all grades</b>	<b>HI-LC01</b>
<b>3 For singlemode fibers of all grades</b>	<b>HI-LC02</b>
<b>4 LC protective plastic cap</b> with ribbon, for LC single connectors, clear	<b>HI-LC-CAP</b>
<b>5 quad LC coupler</b> for installation and extension purposes D-flange with 2xM3 thread and 2xM3 sink	<b>HI-FIBER4-FD</b>
<b>6 Seal cap with fastening cord</b> for LC coupler HI FIBER4-FD	<b>HI-FIBER4-FCAP</b>
<b>7 Gasket ring against dust and water</b> for LC coupler HI FIBER4-FD	<b>SCDPO</b>



**Color coding for HI-FIBER4-MC**  
Optionally we also offer the black, white, and yellow color strips with your personal lettering as desired!  
Talk to us.

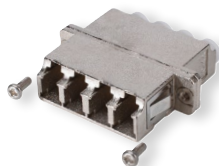


8 COLOR CODE	ORDER NO. 10-piece set	COLOR CODE	ORDER NO. 10-piece set
■ Red	<b>HI-FC-RT</b>	■ Blue	<b>HI-FC-BL</b>
■ Yellow	<b>HI-FC-GE</b>	■ Black	<b>HI-FC-SW</b>
■ Green	<b>HI-FC-GN</b>	□ Neutral (white)	<b>HI-FC-WS</b>



DESCRIPTION	ORDER NO.
<b>9 Professional toolcase</b> for HI FIBER4-System comprising: Syringe, cannula, AlcoPads, Fiber stripper, wire stripper, aramid scissors, epox adhesive, polishing foils and disk, drying cabinet, microscope 200x etc.	<b>HI-WLC-SET</b>
<b>10 One-click cleaner</b> for fiber-optical connectors, also in recessed position, <b>no disassembly</b>	<b>FIBERCLEAN-LC</b>
<b>11 200 cleaning wipes</b> for all fiber-optical fiber endings	<b>SFIBERWIPES</b>

**SYS BOXX**



DESCRIPTION	ORDER NO.
<b>Installation adapter</b> 4xLC 4xLC patch coupler, metal fits into <b>SYSBOXX</b> front panel SYBF21-GF: 4x	<b>GF-LC4LC4-FF</b>

**SYS BOXX**



DESCRIPTION	ORDER NO.
<b>Installation adapter</b> 2xSC ↔ 2xSC duplex patch coupler, metal fits into <b>SYSBOXX</b> front panel SYBF21-GF: 2x duplex	<b>GF-SC2SC2-FF</b>

CONNECTORS

HICON ▶ A/V accessories ▶ **UNIVERSAL D-FLANGE and COLOR CODING**

All **HICON** products bearing the **SYSBOXX** logo can be mounted into the recessed HI DET or HI DET-M D-flange (metal version with M3 thread) and thus fit into our modular **SYSBOXX** system box (see multicore systems). The 12.5 mm socket diameter allows the reception of all audio, video, FOC and DATA installation connectors with a 1/2" male thread.

For this purpose we recommend our WSW16 mounting tool.

The matching color coding in 11 different colors enables your individual marking.

**HICON** also offers a low-priced D blind cover, optionally with frontside **SOMMER CABLE**, **HICON** logo or no logo.

**Mounting examples with HI DET and color code rings**

(top left to bottom right):

- 1 x RCA F-BAS (yellow)
- 3 x BNC (RGB color code)
- 1 x LWL-ST connector (orange)
- S-VHS hosiden (neutral)
- 2 x RCA audio (white, red)



CONNECTORS

**SYS BOXX**



**1 Color code rings for HI DET/HI DET-M**

COLOR	ORDER NO. per pc.	COLOR	ORDER NO. per pc.
Red	HI-DR-RT	Grey	HI-DR-GR
Orange	HI-DR-OR	White	HI-DR-WS
Yellow	HI-DR-GE	Mint green	HI-DR-MN
Brown	HI-DR-BR	Pink	HI-DR-PN
Green	HI-DR-GN	Violet	HI-DR-VI
Blue	HI-DR-BL	Black	<b>NEW</b> HI-DR-SW

**SYS BOXX D**



**Universal D-flange, recessed, with 12.5 mm socket**

DESCRIPTION	ORDER NO.
<b>2</b> Universal D-flange Plastic version	HI-DET
Universal D-flange Metal version with M3 thread	HI-DET-M

**SYS BOXX D**



**D-flange blind cover, plastic version.**

DESCRIPTION	ORDER NO.
<b>3</b> D-flange for rear, front-flush mounting with 2.0 mm raised <b>SOMMER CABLE</b> logo	HI-DAS
<b>4</b> D-flange without logo, flat	HI-DAH1
<b>5</b> D-flange for rear, front-flush mounting with 2.0 mm raised <b>HICON</b> logo	HI-DAH2
<b>6</b> D-flange with PG13 perforation	HI-DAPG13
D-flange with M16 perforation	HI-DAM16
<b>7</b> D-flange with D-hole for BNC etc.	HI-DAE



**Universal housing for D-flange**

Metal version. Supplied with Torx screws. Ideal for small adapters, perhaps with integrated circuits, DI-boxes etc.

DESCRIPTION	ORDER NO. male
<b>8</b> Universal housing for D-flange, 100 mm long	HI-HOUSING
Universal housing for D-flange, 65 mm long	<b>NEW</b> HI-HOUSING-S

## HICON ▶ A/V accessories ▶ SWITCH / PUSHBUTTON / POT with D-FLANGE

HICON  
CONNECTORS

Ideally suitable for the installation and event technology are the following rocker switches and pushbuttons in the convenient D-flange format. These are therefore compatible with all SYS housing series.

Material: switch polyamide / D-flange metal  
Insulation resistance: > 100 MΩ / 500 VDC  
Dielectric strength: 1000 VAC / 1 min  
Connector: blade terminal 4.8 x 0.8 mm  
Standardizations: UL 94 V2, RoHS



## SYS BOXX | D



Switch/toggle switch, D-flange model, metal.

DESCRIPTION	ORDER NO.
1 Switch 1-pole on/off 6 A / 250 VAC	HI-SW01
2 Switch 2-pole on/off 10 A / 250 VAC	HI-SW02
3 Switch 1-pole on/off/on 6 A / 250 VAC	HI-SW04
4 Toggle switch 1-pole on/off 6 A / 230 VAC	HI-SW06

## SYS BOXX | D



Switch LED, D-flange model, metal.

DESCRIPTION	ORDER NO.
5 Switch LED green 1-pole on/off 10 A / 12 VDC	HI-SW03-GN
6 Switch LED red 1-pole on/off 10 A / 12 VDC	HI-SW03-RT
7 Switch glow lamp red 2-pole on/off 10 A / 250 VAC	HI-SW05-RT
8 Switch glow lamp yellow 2-pole on/off 10 A / 250 VAC	HI-SW05-GE
9 Switch glow lamp green 2-pole on/off 10 A / 250 VAC	HI-SW05-GN

## SYS BOXX | D



Fuse holder, D-flange model, metal.

DESCRIPTION	ORDER NO.
Fuse holder 5 x 20 mm, 230 V max. 10 A	HI-SIO1

## SYS BOXX | D



Pushbutton, D-flange model, metal.

DESCRIPTION	ORDER NO.
10 Pushbutton black 1-pole on (off) 1.5 A / 250 VAC	HI-TA01-SW
11 Pushbutton red 1-pole on (off) 1.5 A / 250 VAC	HI-TA01-RT

## SYS BOXX | D



Potentiometer, D-flange model, metal.

DESCRIPTION	ORDER NO.
12 HIGH END stereo potentiometer, blue 50 kΩ linear, 90 dB	HI-PT01-BL
HIGH END stereo potentiometer, red 50 kΩ linear, 90 dB	HI-PT01-RT
HIGH END stereo potentiometer, grey 50 kΩ linear, 90 dB	HI-PT01-GR
13 BASIC potentiometer, blue 50 kΩ linear, 90 dB	HI-PT02-BL
BASIC potentiometer, red 50 kΩ linear, 90 dB	HI-PT02-RT
BASIC potentiometer, grey 50 kΩ linear, 90 dB	HI-PT02-GR



MIDI installation socket, D-flange model, solder version  
Plastic housing.

DESCRIPTION	ORDER NO.
MIDI installation socket, 5-pole	HI-MIDI-EFD



Connectors ▶ Digital ▶ **KEYSTONE CLIP-IN ASSEMBLY CONNECTOR****SYS BOXX***The CLIP principle!*

Among others, the super compact clip-in assembly connectors in the Keystone format fit into specific 19" panels, wall boxes as well as all SYStems like **SYSBOXX**, **SYSDESK**, **SYSWALL**, **SYSFLOOR** etc. With the KST-D these connectors can also be mounted into all D-holes. That way a **wide range of custom-desired configurations** becomes possible in **every media-technical installation!**



DESCRIPTION	ORDER NO.
<b>1 KST-BEF-RT</b>	Banana fem. ↔ solder/plug-in connector, red
<b>KST-BEF-SW</b>	Banana fem. ↔ solder/plug-in connector, black
<b>2 KST-BNBN-P-COLOR**</b>	BNC fem. ↔ BNC fem., patch
<b>3 KST-BNBN-C-COLOR**</b>	BNC fem. ↔ BNC fem. on cable 0.2 m
<b>4 KST-CICI-P-COLOR**</b>	RCA fem. ↔ RCA fem., patch (not in yellow)
<b>5 KST-CI-S-COLOR**</b>	RCA fem. ↔ plug-in/screw clamp
<b>6 KST-FSFS-P-COLOR*</b>	F-socket ↔ F-socket, patch
<b>7 KST-HDHD-P1-SW</b>	HDMI fem. ↔ HDMI fem., patch
<b>8 KST-HDHD-P2-WS</b>	HDMI fem. ↔ HDMI fem., <b>short installation depth</b> , white, patch
<b>9 KST-HDHD-C</b>	HDMI fem. ↔ HDMI fem. on cable 0.2 m
<b>10 KST-J3J3-P-COLOR*</b>	3.5 mm stereo mini jack fem. ↔ 3.5 mm stereo mini jack fem., patch
<b>11 KST-J3-S-COLOR*</b>	3.5 mm stereo mini jack fem. ↔ plug-in/screw clamp
<b>12 KST-J3J3-C-COLOR*</b>	3.5 mm stereo mini jack fem. ↔ 3.5 mm stereo mini jack fem. on cable 0.2 m
<b>13 KST-J3FM-C1-COLOR*</b>	3.5 mm stereo mini jack fem. ↔ 3.5mm stereo mini jack male on cable 1.0m
<b>NEW</b>	
<b>14 KST-J3CI-C-COLOR*</b>	3.5 mm stereo mini jack fem. ↔ 2 x RCA fem. on cable 0.2 m
<b>15 KST-L1L1-P-COLOR*</b>	SC fem. ↔ SC fem., FO simplex, patch
<b>16 KST-L3L3-P-COLOR*</b>	LC fem. ↔ LC fem., FO duplex, patch
<b>KST-RJ45C6A-P-90</b>	RJ45 fem. ↔ RJ45 fem., fully shielded, CAT.6a, patch, <b>90° angled</b>
<b>17 KST-RJ45C6A-P</b>	RJ45 fem. ↔ RJ45 fem., fully shielded, CAT.6a, patch
<b>18 KST-RJ45CAP-COLOR**</b>	Blind plug for RJ45 socket (available in black, blue, yellow, green and red)
<b>19 KST-UTPC6-P-SW</b>	ISDN, RJ45 fem. ↔ RJ45 fem., unshielded, CAT.6 downward compatible, patch
<b>20 KST-SVSV-P-COLOR*</b>	S-VHS, hosiden 4 fem. ↔ S-VHS hosiden 4 fem., patch
<b>21 KST-TLTL-P-COLOR*</b>	Toslink fem. ↔ Toslink fem., patch
<b>22 KST-UAUA-P1-SW</b>	USB A fem. ↔ USB A fem., patch
<b>23 KST-U3AU3A-P-COLOR*</b>	USB 3.0 A fem. ↔ USB 3.0 A fem., patch
<b>24 KST-U3AU3A-C</b>	USB 3.0 A fem. ↔ USB 3.0 A male on cable 0.5 m
<b>25 RJ45CFXL-P1</b>	RJ45 ONESIZE socket, toolfree assembly, GHMT-certified, suitable for CAT leads AWG 26 – 22, also for Power over Ethernet applications, incl. dust cap & cable binders
<b>26 KST-CAP-WS</b>	Seal cap / blind cover, white
<b>KST-CAP-SW</b>	Seal cap / blind cover, black
<b>27 KST-D</b>	D-flange with Keystone receptacle
<b>28 KST-DR</b>	D-flange with Keystone receptacle, suitable for rear mounting
<b>NEW</b>	
<b>29 KST-2HS</b>	Keystone holder for 2 modules on top-hat rail

Multiple connection frames for floor tank inserts and 19" racks can be found at the end of the chapter "Multicore Systems" and in the chapter "Modular Systems".

\* please specify color:    ■ black (-SW)    □ white (-WS)

\*\* please specify color:    ■ red (-RT)    ■ green (-GN)  
                                      ■ yellow (-GE)    ■ blue (-BL)  
                                      ■ black (-SW)    □ white (-WS)



**TRANSFORMER TECHNOLOGY**



*The troubleshooting peacemakers ...*

make sure your signal paths are dead quiet. The microphone split transformers of German production are custom-made for **SOMMER CABLE** and excel by linearity, a low tendency to oscillate and low winding resistances. The housings are designed for print mounting, have a mu-metal shielding and thus guarantee an optimum protection against interference signals. For the SOMMER transformers we also supply the matching single board – the SOMMER SPLIT BOARD – for DIY assembly. This board has been

designed for both the SPLIT 1:1 and the SPLIT 1:1+1 in connection with a NEUTRIK NC3FDH and is also available as a 4-channel version with a 30 mm hole spacing for single-channel line isolating solutions up to multi-channel splitter systems.

For applications with very high demands we recommend the transformers from the renowned manufacturer LUNDAHL from Sweden. The model **LL1570** is designed for the microphone split use with a max. level of +16 dBU, the model **LL5402** is a special line-split transformer for line levels of max. 22 dBU (THD < 1 % at 50 Hz). We deliver both models separately and also on a ready-made 4-channel board with resonance damping and signal decoupling. The 4-channel modules have been optimized for the use in SYSBOXX housings. These can be found in the chapter "Modular Systems". Both transformers meet all requirements of the broadcast duty book.



**TECHNISCHE DATEN**

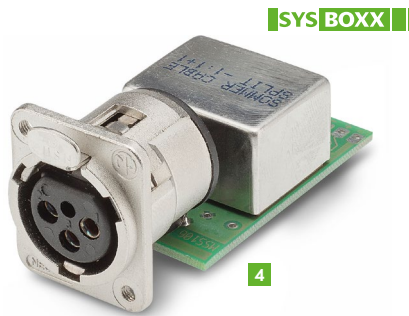
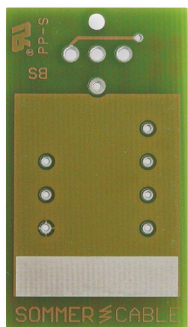
	1 SPLIT 1:1	2 SPLIT 1:1+1	3 LL1570
Application:	Microphone transmission	Microphone transmission	Microphone transformer
Transformer type:	1:1	1:1+1	1+1:1+1
Housing shielding:	Mu metal	Mu metal	Mu metal
Floor space (ca.):	28 x 23 mm	28 x 23,5 mm	38 x 24 mm
Height (ca.):	17 mm	17 mm	17 mm
Input/source:	600 Ohm	600 Ohm	600 Ohm
Output/load:	10 kOhm	10 kOhm	1 kOhm
max. level:	+12 dB	+12 dB	+16 dB
THD:	< 1,0 % @ 40 Hz	< 1,0 % @ 40 Hz	< 1,0 % @ 50 Hz
Frequency response:	40 – 15.000 Hz (±0,5 dB)	40 – 15.000 Hz (±0,5 dB)	10 – 200.000 Hz (±0,5 dB)
Test voltage winding/winding:	500 V	500 V	4 kV
Test voltage winding/core:	500 V	500 V	2 kV
<b>ORDER NO.</b>	<b>SPLIT-1:1</b>	<b>SPLIT-1:1+1</b>	<b>LL1570</b>

**Matching board for DIY assembly:**

ORDER NO.	SPLIT-BOARD*	SPLIT-BOARD
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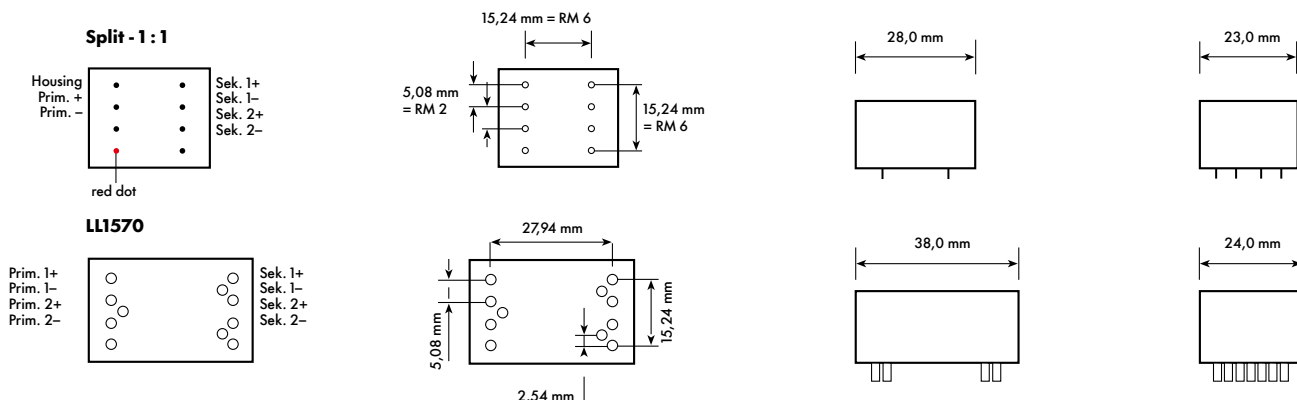
\* When using the SPLIT 1:1 on the SPLIT-BOARD, only output 2 is connected.

**SPLIT-BOARD**



DESCRIPTION	ORDER NO.
<b>Ready-made trafo boards</b>	
<b>1-channel</b>	
SOMMER SPLIT 1:1	<b>SPLIT-B-1:1</b>
SOMMER SPLIT 1:1+1	<b>4 SPLIT-B-1:1+1</b>
<b>4-channel</b>	
SOMMER SPLIT 1:1+1 / 4-channel mic splitter board	<b>SBC13-4XF1:1+1S</b>
Lundahl LL1570 / 4-channel mic splitter board	<b>SBC13-4XF1:1+1L</b>

Dimensions, grid sizes and pin assignments of the transformers



CONNECTORS



*With sympathy we can achieve a lot.*

The long-established German company **TELEGÄRTNER** runs seven branch offices worldwide. Actually it became known by their huge range of extremely high-quality 50 Ω connectors. Until today this likeable and professionally structured enterprise is probably the market leader in the SMA/SMB and 50 Ω technology, although the 75 Ω connectors are also impressive.

**SOMMER CABLE** is an official distribution partner of the **TELEGÄRTNER** GmbH. Hence we can offer you the entire product range and the usual good service. Of course, we also enjoy the benefit of local proximity, because the **TELEGÄRTNER** GmbH is barely an hour away from us.

Telegärtner ▶ Video ▶ **BNC**



x00554

#### BNC 75 Ω cable plugs crimp

DESCRIPTION for cables (suitable tool)	ORDER NO.
1 Transit MC 113, 123 HD, 343 (HT-CRIMPSET)	<b>BNC0.4/2.5-T</b>
2 SC-Slimline (RCB), Transit, Transit MC 523 HD/8232, Transit Kombi HD, Observer 1 HD (HT-CRIMPSET)	<b>BNC0.6/2.8HDTV-T</b>
3 SC-Vector 0.8/3.7, Transit 5231 HD (HT-CRIMPSET)	<b>BNC0.8/3.8HDTV-T</b>
4 SC-Vector 0.8/3.7	<b>NEW</b> <b>BNC0.8/3.7UHD-T</b>
5 SC-RCBS 1.0/4.8, Transit 2005	<b>BNC1.0/4.6HDTV-T</b>
6 SC-Vector Plus 1.2/5.0, SC-Astral LLX, SC-Vector Plus 1.2L/4.8DZ, Transit MC 3031/3231	<b>BNC1.2/5.0-T</b>
7 SC-Vector Plus 1.2L/4.8DZ	<b>NEW</b> <b>BNC1.2/4.8UHD-T</b>
8 SC-Vector Plus 1.6L/7.3	<b>NEW</b> <b>BNC1.6/7.3UHD-T</b>



x00555

#### BNC 75 Ω cable socket crimp

DESCRIPTION for cables (suitable tool)	ORDER NO.
9 Cinema-SV, Transit Mini Flex, Transit Mini Kombi, Transit Mini Control, Transit MC 72491, SC-Kinetic, Intercom Mini, RG179A/U, SC-Monomax (HT-CRIMPSET)	<b>BNC0.3/1.8FK-T</b>
10 Transit MC 113, 123 HD, 343 (HT-CRIMPSET)	<b>BNC0.4/2.5FK-T</b>



x01748

#### BNC 75 Ω through-socket UHD

DESCRIPTION	ORDER NO.
2-pole, female, UHD	<b>NEW</b> <b>BNC-FP-UHD-T</b>



x00556

#### BNC 50 Ω cable plugs crimp

DESCRIPTION for cable (suitable tool)	ORDER NO.
RG213/LL (HT-CRIMPSET)	<b>BNC213LL-T</b>

Telegärtner ▶ Video ▶ **MINI-BNC** ▶



x01750

The MINI BCNs are about 50 % smaller than the standard variant and thus allow a 4 x higher packing density.

#### 6G-SDI Broadcast, MINI-BNC cable plugs crimp 75 Ω

DESCRIPTION	ORDER NO.
6G-SDI, 2-pole male, <b>MINI</b> For cables: SC-Vector 0.8/3.7	<b>NEW</b> <b>BNC0.8/3.7-M-6G-T</b>



x01749

#### HD, MINI-BNC through-socket 75 Ω

DESCRIPTION	ORDER NO.
HD, 2-pole female, <b>MINI</b>	<b>NEW</b> <b>BNC-FPM-HD-T</b>

# DAMAR & HAGEN



## A gilded Rolls Royce is driving up ...

The connectors from the German manufacturer are, in a sense, the "Rolls Royce" among the coaxial connectors.

Legendary are probably the world's best triax connectors by **DAMAR & HAGEN** which are indestructible and extremely easy to mount.

The **DAMAR & HAGEN** catalog is rather intended for technically experienced people. Therefore we offer their products in a simplified version with photo illustrations. We are also an official distribution partner of **DAMAR & HAGEN** and proud to say that there are hardly any radio or TV stations we didn't equip with pre-made **SOMMER CABLES** and **DAMAR & HAGEN** systems.

### Damar & Hagen ▶ Video ▶ BNC

## DAMAR & HAGEN

**DAMAR & HAGEN** was already founded back in 1922, and their video and triax connectors are considered the "nonplusultra" of video technology by all TV and radio stations and also by the leading broadcast suppliers throughout Europe. All audio & video connectors are technically well-engineered to the last detail, proven over years and uncomplicated to handle. They are designed for an extremely long service life, high mating cycles and a perfect transmission of even the most critical signals. The contact pins are made of hard gold-plated brass, the socket contacts of hard gold-plated beryllium bronze, and the outer conductors have a corrosion-proof alloy coating.

### BNC 50 Ω

The HF plug-in connection in the 50 Ω technology for flexible coaxial lines with 2-11 mm outside diameter is used in telecommunications and metrology systems and devices in the frequency range below 4 GHz.

These connectors with a bayonet catch are small, light and moisture-proof.



x00573

**DAMAR & HAGEN'S** BNC/DS connector series are suitable for serial digital video transmissions (SDI) whereas the BNC/HD are suitable for HDTV applications. They were already tested several times by independent institutes scoring "reference benchmarks". These connectors are compatible with all BNC connectors on the market.

**SOMMER CABLE** is an official distribution partner of **DAMAR & HAGEN**, therefore we deliver almost all common connectors ex warehouse Straubenhardt.

### ELECTRIC PROPERTIES

Wave impedance:	50 Ω
Frequency response:	0-4 GHz
Reflection factor:	<0.11 (plug-socket connected in)
Contact connection/crimp:	inner conductor < 2 MΩ; outer conductor <0.25 MΩ
Insulation resistance:	>5 GΩ at 1000 V
Operating temperature range:	-60 °C ... +125 °C

### BNC 50 Ω cable plugs

#### DESCRIPTION for cable (suitable tool)

RG58 (HT-CRIMPSET)

#### ORDER NO.

1-1010-2200-1

### BNC 75 Ω

The HF plug-in connection BNC 75 Ω for flexible coax lines with 3-11 mm outside diameter finds numerous applications in the frequency range below 4 GHz.



1



2



x00583

### ELECTRIC PROPERTIES

Wave impedance:	75 Ω
Frequency response:	0-4 GHz
Reflection factor:	<0.11 (plug-socket connected in)
Contact connection/crimp:	inner conductor <2 MΩ; outer conductor <0.25 MΩ
Insulation resistance:	>10 MΩ at 1000 V
Operating temperature range:	-60 °C ... +125 °C

### BNC 75 Ω cable plugs

#### DESCRIPTION for cables (suitable tool)

1 RG6 (HT-CRIMPSET)

2 RG59, SC-Classic Control (HT-CRIMPSET)

#### ORDER NO.

1-1194-2100-1

1-1190-2100-1

### BNCpro Cable plugs – 75 Ω – 6G-SDI

These connectors have the necessary electrical requirements for the transmission of 4K video formats. A steady contact pressure is guaranteed for a service life of at least 2,000 mating cycles. The inner and outer conductors are gold-plated, the signal path is magnet-free. The BNCpro connectors are compatible with all BNC connectors on the market.



3 - 9



x00585

### ELECTRIC PROPERTIES

Wave impedance:	75 Ω
Frequency range:	0-6 GHz
Reflection factor:	<0.04 bis 6 GHz
VSWR up to 6 GHz:	≤1.08 / ≥28 dB
Contact connection/crimp:	inner conductor <3 MΩ; outer conductor <1 MΩ
Insulation resistance:	>5 GΩ
Operating temperature range:	-65 °C ... +165 °C

### BNCpro 75 Ω cable plugs

#### DESCRIPTION for cables (suitable tool)

3 SC-Slimline 0.6/2.8 (HT-CRIMPSET)

4 SC-Focusline 0.6/3.7 (HT-CRIMPSET)

5 SC-Vector 0.8/3.7 (HT-CRIMPSET)

6 SC-RG Classic Broadcast 1.0/4.8 (HT-CRIMPSET)

7 SC-Vector Plus 1.2L/4.8DZ, SC-Vector Plus 1.2L/5.0 (HT-CRIMP TOOL + HT-1250)

8 SC-Vector Plus 1.3/5.7 (HT-CRIMPSET) matching grommet, black

9 SC-Vector Plus 1.6L/7.3, SC-Vector Plus 1.6/7.0 (HT-CRIMPSET)

#### ORDER NO.

1-8478-13100-1

**NEW** 1-8480-13100-1

1-8481-13100-1

1-8482-13100-1

1-8483-13100-1

**NEW** 1-8705-13100-1  
2-5603-3331

1-8485-13100-1

Matching grommets in different colors can be found on our homepage [www.sommercable.com](http://www.sommercable.com)

- Price lookup via QR code or search number at [shop.sommercable.com](http://shop.sommercable.com) • Subject to change • The General Terms and conditions apply (see [www.sommercable.com](http://www.sommercable.com)) -

Connectors ▶ Multipin Audio ▶ **TOURLOCK + CA-COM 8-POL + SOCA****HIGON**  
CONNECTORS**Rock 'n' roll ...**

because these circular Multipin connectors are primarily used in the professional stage & event technology for multipairs and stagebox systems with separate grounding. They are found everywhere where the quality of the conventional square connectors is no longer sufficient, for example:

- in outdoor areas, in the professional event technology
- in dirty surroundings or in cold or damp weather

**THE ADVANTAGES:**

- Available in 8- to 150-pole versions
- Water- and dust-proof according to IP67 protection class
- Reliable locking due to cap nut, solid housing
- Self-centering pins for an excellent contacting
- Low transition impedance values ensure an outstanding audio quality
- according to MIL, VG, UL, and railway specifications (MIL C 5015; VG 95234)


The 8-pole version is compatible with the 8-pole CA-COM connectors. We also deliver the male version without coupling sleeve to enable looms for easy extensions.

The 25-pole connectors are compatible with all 24-pole LKs – only the lower middle pin must remain unconnected here.

In the chapter "Mechanics + Accessories/Empty stagebox housings" we offer our THE BOXX, SYSBOXX and BLACKBOXX housings which allow to mount several circular installation connectors.

The contact pins and sockets must be ordered separately.

Layout schemes and dimensions can be found in the chapter "Support". Other versions and pole numbers available on request.



Please order strain relief/cable gland and pins separately!



SP versions with special print for speaker configuration

**8-pole CA-COM version****DESCRIPTION****ORDER NO.**

1	Installation plug (male), w/o coupling sleeve	<b>HI-LK008MP</b>
2	Installation socket (female), w. coupling sleeve	<b>HI-LK008FP</b>
3	Installation socket (female), w/o coupling sleeve	<b>NEW HI-LK008FPR</b>
4	Cable plug (male), w/o coupling sleeve, cable outlet M32	<b>HI-LK008MV</b>
5	Cable socket (female), w. coupling sleeve, cable outlet M32	<b>HI-LK008FV</b>
6	Cable plug (male), w. coupling sleeve, cable outlet M32	<b>HI-LK008MVR</b>
7	Cable socket (female), w/o coupling sleeve, cable outlet M32	<b>HI-LK008FVR</b>
	Contact plugs gold-plated for 8-pole, 2.5 – 4.0 mm <sup>2</sup> , size 12	<b>HI-LKPIN-M12GL</b>
	Contact sockets gold-plated for 8-pole, 2.5 – 4.0 mm <sup>2</sup> , size 12	<b>HI-LKPIN-F12GL</b>
	Contact plugs silver-plated for 8-pole, 1.5 – 2.5 mm <sup>2</sup> , size 12	<b>HI-LKPIN-M12S</b>
	Contact sockets silver-plated for 8-pole, 1.5 – 2.5 mm <sup>2</sup> , size 12	<b>HI-LKPIN-F12S</b>

**19-pole HI SOCA version, compatible with Socapex 419****DESCRIPTION****ORDER NO.**

8	Installation plug (male)	<b>HI-SOCA19-MP</b>
9	Installation socket (female)	<b>HI-SOCA19-FP</b>
10	Cable plug (male), cable outlet M40	<b>HI-SOCA19-MV</b>
	Cable plug (male), cable outlet M40, with <b>special print for SPEAKER</b>	<b>HI-SOCA19-MV-SP</b>
11	Cable socket (female), cable outlet M40	<b>HI-SOCA19-FV</b>
	Cable socket (female), cable outlet M40, with <b>special print for SPEAKER</b>	<b>HI-SOCA19-FV-SP</b>
12	Contact socket silver-plated (19-pole HI SOCA), 1.5 – 2.5 mm <sup>2</sup>	<b>HI-SOCAPIN-FS</b>
13	Contact socket gold-plated (19-pole HI SOCA), 2.5 – 4 mm <sup>2</sup>	<b>HI-SOCAPIN-FGL</b>
14	Contact plug silver-plated (19-pole HI SOCA), 1.5 – 2.5 mm <sup>2</sup>	<b>HI-SOCAPIN-MS</b>
15	Contact plug gold-plated (19-pole HI SOCA), 2.5 – 4 mm <sup>2</sup>	<b>HI-SOCAPIN-MGL</b>
16	Blind cover for unused holes (19-pole HI SOCA19)	<b>HI-SOCAPIN-FIL</b>

**|| SYSBOXX ||****|| SYSBOXX ||****25-pole version (8-channel), arrangement 24 A – 25****DESCRIPTION****ORDER NO.**

17	Installation plug (male)	<b>HI-LK025MP</b>
18	Installation socket (female)	<b>HI-LK025FP</b>
19	Cable plug (male), cable outlet PG 16	<b>HI-LK025MV</b>
20	Cable socket (female), cable outlet PG 16	<b>HI-LK025FV</b>
21	Seal cap for male connectors	<b>HI-LKCAP-M25</b>
22	Seal cap for female connectors	<b>HI-LKCAP-F25</b>





Connectors ▶ Multipin Audio ▶ **TOURLOCK + CA-COM 8-POL + SOCA**

**SYS BOXX**

**SYS BOXX**



**37-pole version (12-channel), arrangement 28 - 21**

DESCRIPTION	ORDER NO.
1 Installation plug (male)	HI-LK037MP
2 Installation socket (female)	HI-LK037FP
3 Cable plug (male), cable outlet PG 21	HI-LK037MV
4 Cable socket (female), cable outlet PG 21	HI-LK037FV
5 Seal cap for male connectors	HI-LKCAP-M37
6 Seal cap for female connectors	HI-LKCAP-F37



**SYS BOXX**

**SYS BOXX**



**85-pole version (24-channel), arrangement 40 - 56**

DESCRIPTION	ORDER NO.
7 Installation plug (male)	HI-LK085MP
8 Installation socket (female)	HI-LK085FP
9 Cable plug (male), cable outlet PG 29	HI-LK085MV
10 Cable socket (female), cable outlet PG 29	HI-LK085FV
11 Seal cap for male connectors	HI-LKCAP-M85
12 Seal cap for female connectors	HI-LKCAP-F85



**Pins for 25- / 37- / 85-pole version**



DESCRIPTION	ORDER NO.
13 Contact plug gold-plated (85-pole max.), size 16, 1 - 1.5 mm <sup>2</sup>	HI-LKPIN-M16G
14 Contact sockets gold-plated (85-pole max.), size 16, 1 - 1.5 mm <sup>2</sup>	HI-LKPIN-F16G
15 Crimp plug gold-plated (85-pole max.), size 16, 0.15 - 0.6 mm <sup>2</sup>	HI-LKPIN-M16GS
16 Crimp socket gold-plated (85-pole max.), size 16, 0.15 - 0.6 mm <sup>2</sup>	HI-LKPIN-F16GS
17 Contact plugs silver-plated (85-pole max.), size 16, 1 - 1.5 mm <sup>2</sup>	HI-LKPIN-M16S
18 Contact sockets silver-plated (85-pole max.), size 16, 1 - 1.5 mm <sup>2</sup>	HI-LKPIN-F16S
19 Mounting aid pin for contact sockets, size 16	<b>NEW</b> HI-LKPING-16



**SYS BOXX**

**SYS BOXX**



**Pins for 25- / 37- / 85-pole version**

DESCRIPTION	ORDER NO.
20 Installation plug (male)	HI-LK150MP
21 Installation socket (female)	HI-LK150FP
22 Cable plug (male), cable outlet PG 29	HI-LK150MV
23 Cable socket (female), cable outlet PG 29	HI-LK150FV
24 PG36 housing size 40	HI-LKBODY-PG36
25 Seal cap for male connectors	HI-LKCAP-M85
26 Seal cap for female connectors	HI-LKCAP-F85
27 Contact plugs gold-plated (100 - 150-pole), size 18	HI-LKPIN-M18G
28 Contact sockets gold-plated (100 - 150-pole), size 18	HI-LKPIN-F18G



**Tools**



DESCRIPTION	ORDER NO.
29 Mounting pliers for all LK contacts	T98143
30 Release tool for 8 - 85-pole LK contacts	43240
31 Release tool for 150-pole LK contacts	KIT-99-011



CONNECTORS

Connectors ▶ Multipin Audio ▶ **ACCESSORIES THREADS**

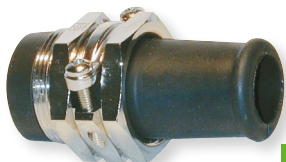
1



x00603

**Strain relief, nickel-plated brass**

DESCRIPTION	ORDER NO.
1 PG 16 Hole diameter 12 – 16 mm	<b>KVM16</b>
PG 21 Hole diameter 15 – 20 mm	<b>KVM21</b>
PG 29 Hole diameter 21 – 28 mm	<b>KVM29</b>



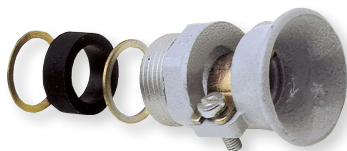
2



x00604

**Strain relief, nickel-plated brass w. rubber coupling sleeve**

DESCRIPTION	ORDER NO.
2 PG 16 Hole diameter 13 – 15 mm	<b>PGZ16-15</b>
PG 21 Hole diameter 15 – 17 mm	<b>PGZ21-17</b>



3



x00606

**Trumpet strain relief w. gasket ring**

DESCRIPTION	ORDER NO.
3 PG 16 Hole diameter 12 – 15 mm	<b>CRS16</b>
PG 21 Hole diameter 17 – 20 mm	<b>CRS21</b>
PG 29 Hole diameter 26 – 29 mm	<b>CRS29</b>



4



x00608

**Splice adapter w. different female threads for holding standard cable glands**

DESCRIPTION Female threads	ORDER NO.
4 Glandmaster metal M16x1.5 ↔ M16x1.5, L = 60 mm	<b>GLM-M16-M16</b>
Glandmaster metal M16x1.5 ↔ M16x1.5, L = 60 mm	<b>GLM-M25-M16</b>
Glandmaster metal M16x1.5 ↔ M16x1.5, L = 60 mm	<b>GLM-M25-M25</b>
Glandmaster metal M16x1.5 ↔ M16x1.5, L = 60 mm	<b>GLM-M25-PG16</b>
Glandmaster metal M16x1.5 ↔ M16x1.5, L = 60 mm	<b>GLP-M40-M32</b>



7

5

6



x00610

**Reduction/extension thread, nickel-plated brass**  
(metric version available on request)

DESCRIPTION	ORDER NO.
5 PG 16 to PG 13	<b>RZG16-13</b>
PG 16 to PG 21	<b>NEW RZG16-21</b>
PG 21 to PG 26	<b>RZG21-16</b>
PG 21 to PG 16	<b>RZG21-29</b>
PG 29 to PG 29	<b>RZG29-16</b>
6 PG 29 to PG 16	<b>RZG29-21</b>
PG 29 to PG 21	<b>RZG29-M32</b>
PG 40 to PG 32	<b>RZGM40-M32</b>
7 PG 40 to PG 50	<b>RZGM40-M50</b>



8



x00611

**Locking nut, nickel-plated brass**  
(metric version available on request)

DESCRIPTION	ORDER NO.
8 PG 16 female thread	<b>PGM16</b>
PG 21 female thread	<b>PGM21</b>
PG 29 female thread	<b>PGM29</b>



9



x00613

**PG cover panels, black plastic**  
(metric / grey version available on request)

DESCRIPTION	ORDER NO.
9 PG 16 hole cover	<b>PGA16</b>
PG 21 hole cover	<b>PGA21</b>
PG 29 hole cover	<b>PGA29</b>



10



x00614

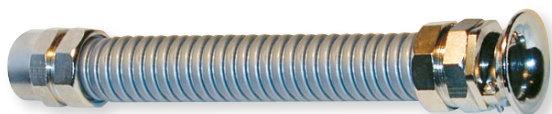
**Cable anchor stocking**

Cable anchor stockings made of wire mesh for hanging up and as strain relief for multipairs. This is a useful accessory for the protection of the multipair splice.

DIMENSIONS	ORDER NO.
10 Ø 6 – 10 mm	<b>BD7</b>
Ø 10 – 18 mm	<b>BD9</b>
Ø 18 – 22 mm	<b>BD11</b>
Ø 22 – 25 mm	<b>BD13</b>
Ø 25 – 27 mm	<b>BD15</b>

Connectors ▶ Multipin Audio ▶ **ACCESSORIES – STRAIN RELIEF****Metal strain relief w. braided steel sleeve support**

DESCRIPTION	ORDER NO.
PG 21 Hole diameter 15.9 – 19.0 mm	PGV21K-MESH

**Cable metal protection hose w. trumpet entry and PG outlet**

Overall length = 27 cm

DESCRIPTION	ORDER NO.
PG 13 Hole diameter 7 – 10 mm	KMS13

**Plastic strain relief, watertight**

DESCRIPTION	ORDER NO.
PG 16 Hole diameter 10 – 14 mm, black	PGV16-SW
PG 21 Hole diameter 13 – 18 mm, black	PGV21-SW
1 PG 29 Hole diameter 18 – 25 mm, black	PGV29-SW
PG 36 Hole diameter 26 – 32 mm, black	PGV36-SW
M16x1,5 Hole diameter 5 – 10 mm, black	PGVM16-SW
M25x1,5 Hole diameter 9 – 17 mm, black	PGVM25-SW
M32x1,5 Hole diameter 11 – 21 mm, black	PGV36-SW
M40x1,5 Hole diameter 19 – 28 mm, black	PGVM40-SW

**Plastic strain relief w. cable sleeve support, watertight**

DESCRIPTION	ORDER NO.
2 PG 16 Hole diameter 10 – 14 mm, black	PGV16K-SW
PG 21 Hole diameter 13 – 18 mm, grey	PGV21K-GR
PG 29 Hole diameter 13 – 18 mm, black	PGV21K-SW
PG 36 Hole diameter 3.5 – 8 mm, black	PGVM16K-SW
M16x1,5 Hole diameter 9 – 17 mm, black	PGVM25K-SW
M40x1,5 Hole diameter 11 – 21 mm, black	PGVM32K-SW

**Amphenol®**  Made in Australia

Although **AMPHENOL** is a globally operating company, the delivery program is quite manageable and the ambitious and friendly colleagues from Australia, Germany and the Netherlands make our cooperation very easy for us.

**AMPHENOL** delivers audio, video and load connectors and also in the machine building sector they are among the market leaders. The products marked with the SYSBOXX logo are compatible with our modular SYSBOXX line (see Modular Systems).

Amphenol ▶ Audio ▶ **JACK CONNECTORS**

**MORE SUPPLIERS:**  
OVERVIEW AT THE BEGINNING OF THE CHAPTER

**High-end jack plugs 6.3 mm, max. cable diameter 8 mm/black**

DESCRIPTION	ORDER NO.
3 2-pole male, black	TM2PBJ
2-pole male, black	TS3PBJ
4 2-pole male, satin	TM2PJ

Amphenol ▶ Audio ▶ **EP CONNECTORS**

**EP connectors** for audio, industry and heavy-duty applications. Due to the rugged zinc die-cast housing, this **Amphenol** series is a very popular connection system which is used, among other things, in speaker chassis and cables.

The cable clamp can hold cables between 9 mm and 16 mm. Other versions available on request.

**Nickel-plated housing; tinned contacts**

DESCRIPTION	ORDER NO.
5 5-pole male	EP-5-12
6 5-pole female	EP-5-11P



Connectors ▶ Multipin Audio/Load ▶ **ILME MULTIPIN CONNECTORS***Quick and chic ...*

... are the new contact inserts of the SQUICH series. These can be mounted without any tools in a quick and time-saving manner, suitable for conductors with a wire cross-section between 0.14 mm<sup>2</sup> and 2.5 mm<sup>2</sup>. Every contact chamber is associated to a locking element with a cage spring clamp. Closing it results in a safe and reliable fixation of the conductor. If necessary, the lock may simply be opened again by means of a screwdriver.

Operating temperature range: -40 °C to +125 °C

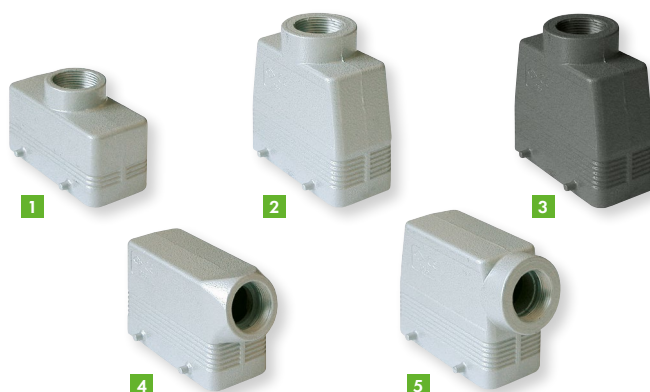
The ILME multipin rectangular connectors are standardized and compatible with all common rectangular connectors on the market (Harting etc.). On the following pages you'll find a small, but reasonable choice of the most common multipin connectors.

**We stock the complete ILME product range and thus also articles which are not listed here – e.g. metric versions. Just ask.**

The products marked with the SYSBOXX logo are compatible with our modular SYSBOXX line. For more information please view the chapters "Multicore Systems" and "Mechanics + Accessories".

**Audio connection system 64- & 108-pole / Load connection system 24-pole**

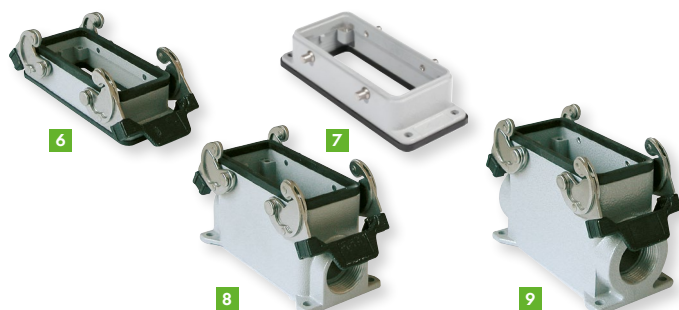
CONNECTORS

**GROMMET BOXES WITH BOLTS**

DESCRIPTION	ORDER NO.
1 Grommet box 4 bolts flat/straight PG21	<b>CHV24</b>
2 Grommet box 4 bolts high/straight PG21	<b>CAV24.21</b>
Grommet box 4 bolts high/straight PG29	<b>CAV24.29</b>
3 Grommet box 4 bolts high/straight PG29, sw	<b>CAV24.29N</b>
4 Grommet box 4 bolts flat/angled PG21	<b>CHO24</b>
5 Grommet box 4 bolts high/angled PG21	<b>CAO24.21</b>
Grommet box 4 bolts high/angled PG29	<b>CAO24.29</b>



x00625

**ADD-ON & MOUNTING BOXES**

DESCRIPTION	ORDER NO.
6 Add-on box 2 brackets, open back	<b>CHI24</b>
7 Add-on box 4 bolts, w/o gasket ring	<b>CHI24CH</b>
8 Mounting box 2 brackets flat/side PG21	<b>CHP24</b>
9 Mounting box 2 brackets high/side PG21	<b>CAP24.21</b>
Mounting box 2 brackets high/side PG29	<b>CAP24.29</b>



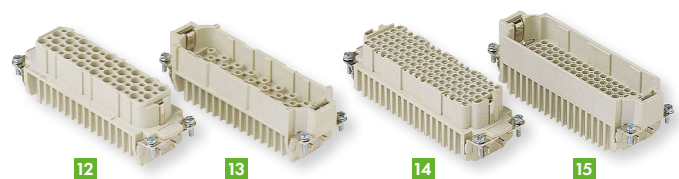
x00629

**GROMMET BOXES WITH BRACKETS**

DESCRIPTION	ORDER NO.
10 Grommet box 2 brackets flat/straight PG 21	<b>CHV24G</b>
11 Grommet box 2 brackets high/straight PG 21	<b>CAV24G</b>
Grommet box 2 brackets high/straight PG 29	<b>CAV24G29</b>



x00631

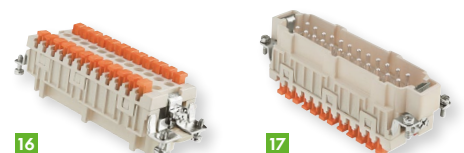
**SYS BOXX****CONTACT INSERTS AUDIO**

(Crimp contacts see following pages)

DESCRIPTION	ORDER NO.
12 Socket insert 64-pole + [] w/o crimp contacts	<b>CDF64</b>
13 Pin insert 64-pole + [] w/o crimp contacts	<b>CDM64</b>
14 Socket insert 108-pole + [] w/o crimp contacts	<b>CDDF108</b>
15 Pin insert 108-pole + [] w/o crimp contacts	<b>CDDM108</b>



x00633

**SYS BOXX****CONTACT INSERTS LOAD**

(Crimp contacts see following pages)

DESCRIPTION	ORDER NO.
16 Socket insert SQUICH 24-pole	<b>CSHF24</b>
17 Pin insert SQUICH 24-pole	<b>CSHM24</b>



x00634





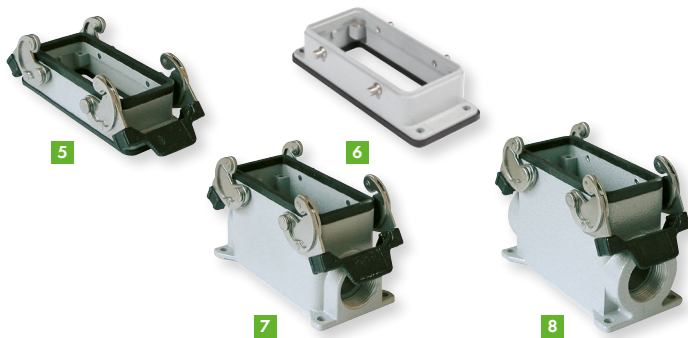
Connectors ▶ Multipin Audio/Load ▶ **ILME MULTIPIN CONNECTORS**

**Audio connection system 40- & 72-pole / Load connection system 16-pole**



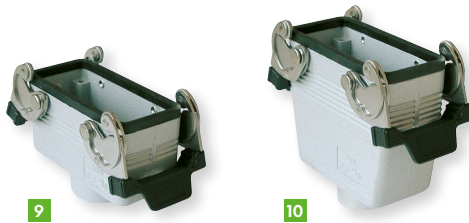
**GROMMET BOXES WITH BOLTS**

DESCRIPTION	ORDER NO.
1 Grommet box 4 bolts flat/straight PG21	<b>CHV16</b>
2 Grommet box 4 bolts high/straight PG21	<b>CAV16.21</b>
Grommet box 4 bolts high/straight PG29	<b>CAV16.29</b>
3 Grommet box 4 bolts flat/angled PG21	<b>CHO16</b>
4 Grommet box 4 bolts high/angled PG21	<b>CAO16.21</b>
Grommet box 4 bolts high/angled PG29	<b>CAO24.29</b>



**ADD-ON & MOUNTING BOXES**

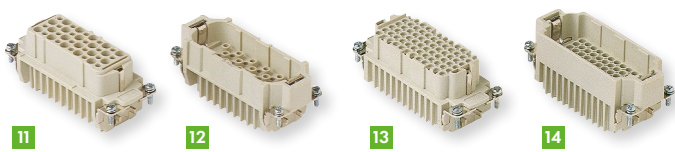
DESCRIPTION	ORDER NO.
5 Add-on box 2 brackets, open back	<b>CHI16</b>
6 Add-on box 4 bolts, w/o gasket ring	<b>CHI16CH</b>
7 Mounting box 2 brackets flat/side PG21	<b>CHP16</b>
8 Mounting box 2 brackets high/side PG21	<b>CAP16.21</b>
Mounting box 2 brackets high/side PG29	<b>CAP16.29</b>



**GROMMET BOXES WITH BRACKETS**

DESCRIPTION	ORDER NO.
9 Grommet box 2 brackets flat/straight PG 21	<b>CHV16G</b>
10 Grommet box 2 brackets high/straight PG 21	<b>CAV16G</b>
Grommet box 2 brackets high/straight PG 29	<b>CAV16G29</b>

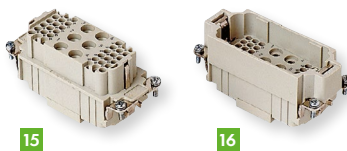
**SYS BOXX**



**CONTACT INSERTS AUDIO**

(Crimp contacts see following pages)

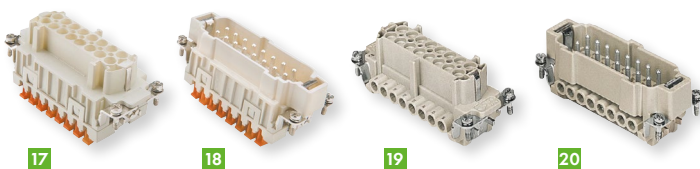
DESCRIPTION	ORDER NO.
11 Socket insert 40-pole + [] w/o crimp contacts	<b>CDF40</b>
12 Pin insert 40-pole + [] w/o crimp contacts	<b>CDM40</b>
13 Socket insert 72-pole + [] w/o crimp contacts	<b>CDDF72</b>
14 Pin insert 72-pole + [] w/o crimp contacts	<b>CDDM72</b>



**CONTACT INSERTS LOAD + AUDIO** (crimp contacts CX series for load, CD series for audio see following pages)

DESCRIPTION	ORDER NO.
15 Socket insert 6 x 40 A + 36 x 10 A, w/o crimp contacts	<b>CXF6/36</b>
16 Pin insert 6 x 40 A + 36 x 10 A, w/o crimp contacts	<b>CXM6/36</b>

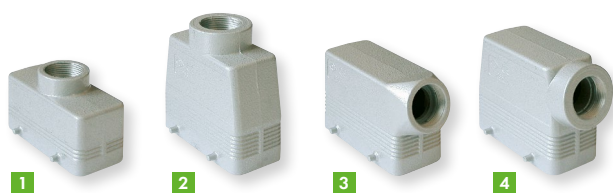
**SYS BOXX**



**CONTACT INSERTS LOAD**

DESCRIPTION	ORDER NO.
17 Socket insert SQUICH 16-pole	<b>CSHF16</b>
18 Pin insert SQUICH 16-pole	<b>CHI24</b>
19 Socket insert 16-pole + [] incl. screw contacts w. wire guard	<b>CHI24CH</b>
20 Pin insert 16-pole + [] incl. screw contacts w. wire guard	<b>CAP24.29</b>

Connectors ▶ Multipin Audio/Load ▶ ILME MULTIPIN CONNECTORS

**Audio connection system 42-pole / Load connection system 10-pole****GROMMET BOXES WITH BOLTS**

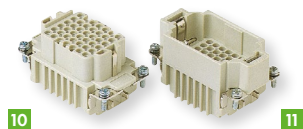
DESCRIPTION	ORDER NO.
1 Grommet box 4 bolts flat/straight	CHV10
2 Grommet box 4 bolts high/straight	CAV10.21
3 Grommet box 4 bolts flat/angled	CHO10
4 Grommet box 4 bolts high/angled	CAO10.21

**ADD-ON & MOUNTING BOXES W. BRACKETS**

DESCRIPTION	ORDER NO.
5 Add-on box 2 brackets, open back	CHI10
6 Mounting box 2 brackets flat/side PG16	CHP10
7 Mounting box 2 brackets high/side PG21	CAP10.21

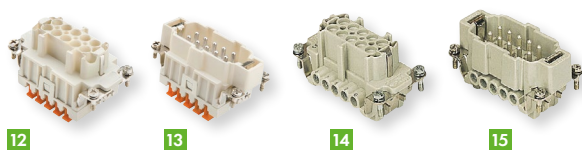
**GROMMET BOXES WITH BRACKETS**

DESCRIPTION	ORDER NO.
8 Grommet box 2 brackets flat/straight PG16	CHV10G
9 Grommet box 2 brackets high/straight PG21	CAV10G

**SYS BOXX****CONTACT INSERTS AUDIO**

(crimp contacts see Accessories on following pages)

DESCRIPTION	ORDER NO.
10 Socket insert 42-pole + □ w/o crimp contacts	CDDF42
11 Pin insert 42-pole + □ w/o crimp contacts	CDDM42

**SYS BOXX****CONTACT INSERTS LOAD**

DESCRIPTION	ORDER NO.
12 Socket insert SQUICH 10-pole	CSHF16
13 Pin insert SQUICH 10-pole	CHI24
14 Socket insert 10-pole + □ incl. screw contacts w. wire guard	CHI24CH
15 Pin insert 10-pole + □ incl. screw contacts w. wire guard	CAP24.29

**Audio connection system 24-pole****GROMMET BOXES WITH BOLTS**

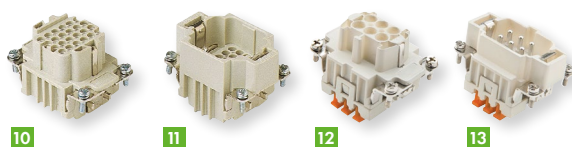
DESCRIPTION	ORDER NO.
1 Grommet box 2 brackets flat/straight PG16	CHV06L16
2 Grommet box 2 brackets high/straight PG21	CAV06L21
3 Grommet box 2 brackets flat/angled PG16	CHO06L16
4 Grommet box 2 brackets high/angled PG21	CAO06L21

**SYS BOXX****ADD-ON & MOUNTING BOXES W. BRACKET**

DESCRIPTION	ORDER NO.
5 Add-on box 1 bracket open back	CHI06L
6 Mounting box 1 bracket flat/side PG16	CHP06L
7 Mounting box 1 bracket high/side PG21	CAP06L

**GROMMET BOXES WITH BRACKET**

DESCRIPTION	ORDER NO.
8 Grommet box 1 bracket flat/straight PG16	CHV06LG
9 Grommet box 1 bracket high/straight PG21	CAV06LG21

**SYS BOXX****GROMMET BOXES WITH BOLTS**

DESCRIPTION	ORDER NO.
10 Socket insert 24-pole + □ w/o crimp contacts	CHV06L16
11 Pin insert 24-pole + □ w/o crimp contacts	CAV06L21
12 Socket insert SQUICH 6-pole	CHO06L16
13 Pin insert SQUICH 6-pole	CAO06L21

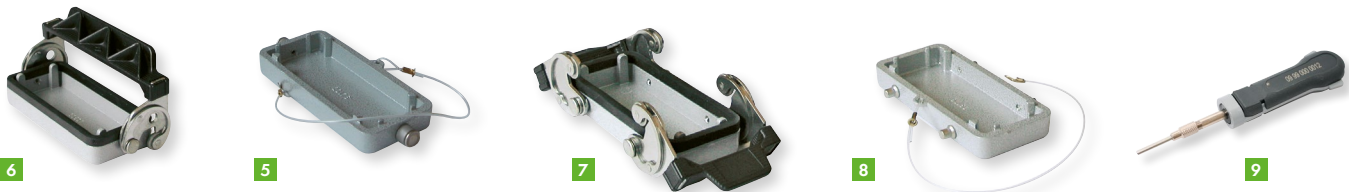
Connectors ▶ Multipin Audio/Load ▶ **ILME MULTIPIN CONTACTS + ACCESSORIES**



x00659

**CRIMP CONTACTS SUITABLE FOR ALL CRIMP CONTACT INSERTS**

DESCRIPTION	ORDER NO.
1 Contact socket silver-plated for conductor 0.37 mm <sup>2</sup>	<b>CDFA0,3</b>
Contact socket silver-plated for conductor 0.50 mm <sup>2</sup>	<b>CDFA0,5</b>
Contact socket silver-plated for conductor 1.00 mm <sup>2</sup>	<b>CDFA1,0</b>
Contact socket silver-plated for conductor 2.50 mm <sup>2</sup>	<b>CDFA2,5</b>
2 Contact plug silver-plated for conductor 0.37 mm <sup>2</sup>	<b>CDMA0,3</b>
Contact plug silver-plated for conductor 0.50 mm <sup>2</sup>	<b>CDMA0,5</b>
Contact plug silver-plated for conductor 1.00 mm <sup>2</sup>	<b>CDMA1,0</b>
Contact plug silver-plated for conductor 2.50 mm <sup>2</sup>	<b>CDMA2,5</b>
3 Contact socket gold-plated for conductor 0.37 mm <sup>2</sup>	<b>CDFD0,3</b>
4 Contact plug gold-plated for conductor 0.37 mm <sup>2</sup>	<b>CDMD0,3</b>
Contact socket silver-plated, 40 A, for conductor 1.5 mm <sup>2</sup>	<b>CXFA1,5</b>
Contact socket silver-plated, 40 A, for conductor 2.5 mm <sup>2</sup>	<b>CXFA2,5</b>
Contact plug silver-plated, 40 A, for conductor 1.5 mm <sup>2</sup>	<b>CXMA1,5</b>
Contact plug silver-plated, 40 A, for conductor 2.5 mm <sup>2</sup>	<b>CXMA2,5</b>



**PROTECTIVE COVERS + TOOLS**

DESCRIPTION	ORDER NO.
5 Protective cover 1 bracket w. gasket ring for CHV06/CAV06/CHO06/CAO06	<b>CHC06LG</b>
6 Protective cover 2 bolts w. fastening cord for CHI06/CHP06/CAP06/CAV06	<b>CHC06L</b>
7 Protective cover 2 brackets w. gasket ring for grommet box CHV10/CAV10/CHO10/CAO10	<b>CHC10G</b>
Protective cover 2 brackets w. gasket ring for grommet box CHV16/CAV16/CHO16/CAO16	<b>CHC16G</b>
Protective cover 2 brackets w. gasket ring for grommet box CHV24/CAV24/CHO24/CAO24	<b>CHC24G</b>
8 Protective cover 4 bolts w. fastening cord for CHI10/CHP10/CAP10/CHV10/CAV10	<b>CHC10</b>
Protective cover 4 bolts w. fastening cord for CHI10/CHP10/CAP10/CHV10/CAV10, black	<b>CHC10N</b>
Protective cover 4 bolts w. fastening cord for CHI24/CHP24/CAP24/CHV24/CAV24	<b>CHC24</b>
9 Push-out tool for contacts CDF/CDM	<b>CCES2</b>
Replacement sleeve for CCES2 (not shown)	<b>CCES2-SP</b>
10 Professional crimp pliers, chrome-plated, incl. case – w/o inserts	<b>WCZ1200</b>

10



x00665

CONNECTORS



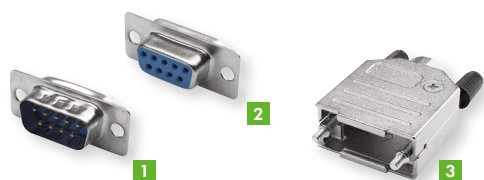
Connectors ▶ Multipin Audio ▶ **SUB-D****SUB-D or D-SUB???**

Well, this is a question that's left to you. In any case we refer to the following compact multipin connectors for the serial data connection between lots of periphery devices like e.g. printers, monitors, S/P-DIF interfaces etc.

The solder installation plug and the solder installation socket have turned, fully gold-plated precision contacts of the highest quality grade. This is to guarantee a reliable transmission quality with low contact resistance values and a long service life.

The screwable housings are equipped with long knurled screws and available as plastic version, standard metal version or as professional all-metal cap. This one is super solid, suitable for large cable diameters and has 1 straight + 2 side outlets (optimum HF shielding, protection class 3). Other versions available on request.

Practical accessories are the space-saving sub-D gender changers in 9-pole and 15-pole HD in the D-flange format.

**SYS BOXX**

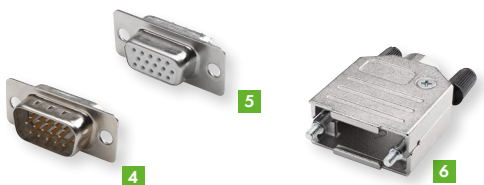
x00668

**9-pole version**

- 1 9-pole pin insert w. solder lugs
- 2 9-pole socket insert w. solder lugs
- 3 9-pole EMC all-metal cap for max. 11.5 mm cable Ø

**ORDER NO.**

**SUBD09CML**  
**SUBD09CFL**  
**SUBD0915GM**



x00669

**15-pole version HD (VGA)**

- 4 15-pole HD pin insert w. solder lugs
- 5 15-pole HD socket insert w. solder lugs
- 6 15-pole HD EMC all-metal cap for max. 11.5 mm cable Ø

**ORDER NO.**

**SUBD15HDCML**  
**SUBD15HDCFL**  
**SUBD0915GM**



x00671

**25-pole version (8-channel)**

- 7 25-pole pin insert w. solder lugs
- 8 25-pole socket insert w. solder lugs
- 9 25-pole plastic housing for max. 10.5 mm cable Ø
- 10 25-pole all-metal cap for max. 10 mm cable Ø
- 11 25-pole all-metal cap for max. 13 mm cable Ø; 45°/90° cable outlet, UNC thread

**ORDER NO.**

**SUBD25CML**  
**SUBD25CFL**  
**SUBD25GK**  
**SUBD25GM**  
**SUBD25HM**

Strain relief for SUB-D...HM, 9–12 mm cable Ø, screw-type

**SUBDHM9-12**

Knurled screw M3 x 24 for devices with metric fastening screws, e.g. Yamaha, Tascam (fits for SUB-D 25 HM)

**SUBD-M3-SCREW**

x00672

**Mini gender changer**

- 9-pole gender changer, female – female
- 12 9-pole patch adapter, female – male
- 9-pole gender changer, male – male
- 15-pole HD gender changer, female – female
- 15-pole HD patch adapter, female – male
- 13 15-pole HD gender changer, male – male
- 14 25-pole gender changer, female – female
- 25-pole patch adapter, female – male
- 25-pole gender changer, male – male

**ORDER NO.**

**SUBD09-FF**  
**SUBD09-FM**  
**SUBD09-MM**  
**SUBD15HD-FF**  
**SUBD15HD-FM**  
**SUBD15HD-MM**  
**SUBD25-FF**  
**SUBD25-FM**  
**SUBD25-MM**

**SYS BOXX D**

x00673

**Mini gender changer w. D-hole**

- 15-pole gender changer, female – female, D-hole

**ORDER NO.****SUBD15HD-FF-D-B**



Connectors ▶ Multipin Audio ▶ **SUB-D FCT***Connections are their cup of tea ...*

and so FCT is one of the most established companies on the German and European market in the field of D-Sub and other connections. The company also runs its own FCT production facility in the U.S.A.

We have added their products to our catalog range because FCT connectors can be found in virtually every professional environment in the audio branch. These are used e.g. in the broadcasting sector, in mixing console building, in communication and data engineering or even required by numerous enterprises.

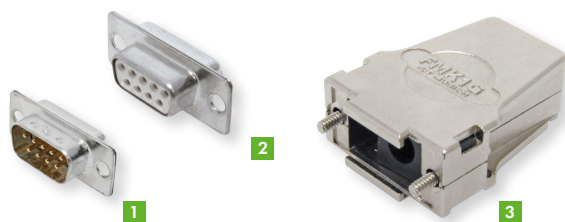
We deliver the FCT D-Sub pin and socket inserts with steel housings and insulation inserts made of a glass fiber reinforced thermoplastic pursuant to UL94V-0 and a solder pot connection.

The elaborate all-metal caps are made of a robust zinc pressure die-cast with a high-quality nickel plating. Due to a catch spring system and pre-mounted lock screws, the housings are fast and easy to assemble.

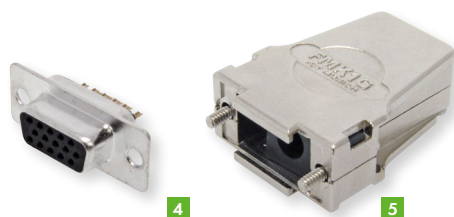
The caps have a straight cable outlet with a reliable strain relief, a sleeve support is included in the delivery. Optionally the FCT caps are also available in a plastic version.

**ADVANTAGES:**

- Fully compatible with all common D-Sub connectors
- Space-saving construction
- Tinned steel housing
- Close capacity tolerances
- Facilitates EMC-compliant design
- UL approval
- High mating cycles (high quality grade)

**9-pole version****ORDER NO.**

1	9-pole pin insert w. solder lugs	<b>FCT09CML</b>
2	9-pole socket insert w. solder lugs	<b>FCT09CFL</b>
3	9-pole all-metal cap for 3.0 - 9.5 mm cable Ø	<b>FCT0915GM</b>

**15-pole version HD (VGA)****ORDER NO.**

4	15-pole HD socket insert w. solder lugs	<b>FCT15HDCFL</b>
5	9-pole/15-pole all-metal cap for 3.0 - 9.5 mm cable Ø	<b>FCT0915GM</b>

**25-pole version (8-channel)****ORDER NO.**

6	25-pole version (8-channel) 25-pole pin insert w. solder lugs, quality grade 1	<b>FCT25CML</b>
7	25-pole socket insert w. solder lugs	<b>FCT25CFL</b>
	25-pole pin insert w. solder lugs, quality grade 1	<b>FCT25CFL-GK1</b>
8	25-pole socket insert w. solder lugs for max. 8.5 -13.5 mm cable Ø	<b>FCT25HM</b>

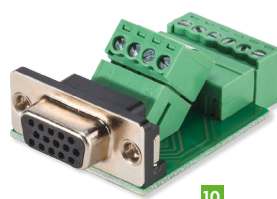
**DESCRIPTION****ORDER NO.**

9	Knurled screw 4/40 UNC thread, length 28 mm	<b>FCT25-UNC</b>
	Knurled screw M2.5 thread, length 28 mm	<b>FCT25-M2.5</b>
	Knurled screw M3 thread, length 28 mm	<b>FCT25-M3</b>

Connectors ▶ Multipin Audio ▶ **SUB-D INSTALLATION***No solder - no trouble ...*

With their 10-pole screw connection these 15-pole HD SUB-D connectors are specially designed for VGA connection solutions in the installation sector. A suitable housing with a clip fastener and a max. cable intake of 12 mm Ø is included with the male and female version. The max. diameter for the screw connection is 1.5 mm. We recommend our suitable cable series Transit Mini Flex and Transit Mini Control, see chapter "Cable Bulkware - Video".

w/o housing



w. housing

**15-pole version HD Installation RGBHV****ORDER NO.**

10	15-pole HD pin insert w. solder lugs	<b>SUBD15HDCMS</b>
11	Installation version for panel mounting 15-pole HD socket insert w. screw connection (w/o housing)	<b>SUBD15HDCFS-2</b>

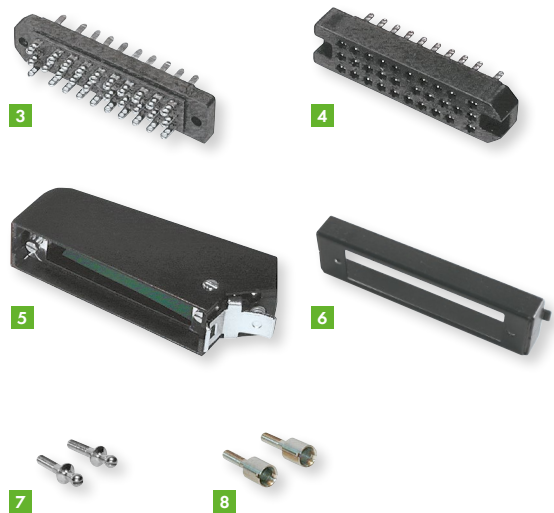


Connectors ▶ **D-TAP / POWERTAP****D-TAP / POWERTAP**

- Compact connector pursuant to Anton-Bauer standard for the broadcast sector
- Solder version
- For DC transfer
- Switchable polarity
- Clamping strain relief
- Cable Ø: 5 mm

**9-pole version****ORDER NO.**  
male**ORDER NO.**  
female

1	2-pole, male	<b>NEW</b> HI-D-TAP-M	-
2	2-pole, female	-	<b>NEW</b> HI-D-TAP-F

Multipin Audio ▶ **SIEMENS MALE / FEMALE MULTIPOINT CONNECTORS DIN 41622****SYS BOXX***The male/female multipoint connectors ...*

in 30-pole versions are often used in the broadcasting sector. As the cable we use our compact 10-pair digital multipair **SC-AURA**. For the 12 channel (39-pole) version we recommend the **TRANSFER AMCK 12**. The cable housing and the add-on flange are available in plastic or metal.

For fixing the contact insert in the housing you will need the code screws. These are available in male and female versions to avoid a faulty connection. The products marked with the SYSBOXX logo are compatible with our modular SYSBOXX line (see Multicore Systems).

**DESCRIPTION****ORDER NO.**

3	30-pole plug w. gold-plated solder lugs / male multipoint connector	<b>SML30CML-AU</b>
4	30-pole socket w. gold-plated solder lugs / female multipoint connector	<b>SML30CFL-AU</b>
	39-pole plug w. solder lugs / male multipoint connector	<b>SML39CML</b>
	39-pole socket w. solder lugs / female multipoint connector	<b>SML39CFL</b>
5	Metal grommet housing	<b>SML30GM</b>
6	Metal locking tray	<b>SML30FM</b>
7	Code screw / pc.	<b>SML30CSM</b>
8	Code screw female / pc.	<b>SML30CSF</b>

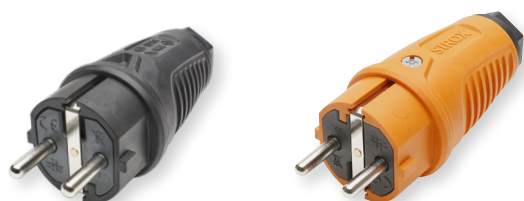
Mains 230V/400V ▶ **SCHUKO/IEC PLUG/CEE/VARIOUS****DESCRIPTION****ORDER NO.**

9	SCHUKO cable outlet 3-way, black, Pendant housing IP44 protection class 250 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FC230-3</b>
10	SCHUKO cable outlet 3-way single-row, black, TPE pendant housing IP44 protection class 250 V/16 A (max. 1.5 mm <sup>2</sup> )	<b>SCHU-FC230-3RSW</b>

## Mains 230 V/400 V ▶ SCHUKO/IEC CONNECTORS / CEE / DIVERSE



x00683



DESCRIPTION	ORDER NO.
1 EURO cable plug, black EURO cable plug, white both each: 230 V/2.5 A (max. 0.75 mm <sup>2</sup> )	<b>EURO-MC230/02-SW</b> <b>EURO-MC230/02-WS</b>
2 EURO cable socket, black EURO cable socket, white both each: 230 V/2.5 A (max. 0.75 mm <sup>2</sup> )	<b>EURO-FC230/02-SW</b> <b>EURO-FC230/02-WS</b>
3 IEC cable socket, black C13, 230 V/10 A (max. 1.5 mm <sup>2</sup> ), IP20	<b>KAGE-FC230/10-SW</b>
4 IEC cable plug, black C13, 230 V/10 A (max. 1.5 mm <sup>2</sup> ), IP20	<b>KAGE-MC230/10-SW</b>
5 SCHUKO cable plug, black, rubber housing w. bend relief 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-MC230/16-SW</b>
6 SCHUKO cable plug IP54, orange, rubber housing w. bend relief 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>NEW SCHU-MC230/16-OR</b>
7 Cable plug, black, French standard, rubber housing w. bend relief 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>NEW SCHF-MC230/16-SW</b>
8 SCHUKO cable outlet, black, rubber housing w. bend relief 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FC230/16-SW</b>
9 SCHUKO cable outlet IP44, black, rubber housing w. bend relief and cover	<b>NEW SCHU-FC230/16DSW</b>
10 Cable outlet, black, French standard, rubber housing w. bend relief and cover 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>NEW SCHF-FC230/16-SW</b>
11 SCHUKO cable plug, black, plastic 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-MC230/16KSW</b>
12 SCHUKO angled plug elastomer, black, <b>90° angled</b> , German, Belgian French 250 V/16 A (max. 1.5 mm <sup>2</sup> ), IP44	<b>SCHU-MC250/16-90</b>
13 SCHUKO flush-mount outlet SNAP-IN, w/o cover, black, 250 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FP230/16SS</b>
14 SCHUKO-Flush-mount socket SNAP-IN, w/o cover, white, 250 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FP230/16SN</b>
SCHUKO flush-mount outlet SNAP-IN, w/o cover, <b>with increased touch guard</b> , black, 250 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>NEW SCHU-FP230/16SSK</b>
SCHUKO flush-mount outlet SNAP-IN, w/o cover, <b>with increased touch guard</b> , white, 250 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>NEW SCHU-FP230/16SNK</b>
15 Flush-mount outlet SNAP-IN, French standard w/o cover, white, 250 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHF-FP230/16SN</b>
Flush-mount socket SNAP-IN, Swiss standard white, 250 V/10 A (max. 2.5 mm <sup>2</sup> )	<b>NEW SCHC-FP230/10SN</b>
16 Touch guard for SNAP-IN SCHUKO	<b>SCHU-BSNG</b>



## Mains 230 V/400 V ▶ SCHUKO/IEC CONNECTORS / CEE / DIVERSE

 **MENNEKES®**  
Plugs for the world
*A hot topic ...*

are the load load connectors, especially when the quality is questionable. For you we have compiled a high-quality range of **SCHUKO** and **CEE** connectors "made in Germany" by Mennekes with excellent electrical and mechanical properties for the 230 V and 400 V technology. When using these connectors, you should by all means possess trained electro-technical skills and generally use an fi circuit breaker between device and power source.

The CEE connectors meet the IEC309-1/-2, DIN EN60309-1/-2, DIN VDE0623 standards and the IP44 protection class. The SCHUKO connectors (max. 2.5 mm<sup>2</sup> cable) meet the DIN 49440-1/-2/-3 standard and the DIN VDE 0620. The matching power cables **ATRIUM FLEX**, **SILCOFLEX** and **RUBBERFLEX** can be found in the chapter "Cable Bulkware". The products marked with the SYSBOXX logo are compatible with our modular SYSBOXX line (see Multicore Systems).



1



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SYS BOXX



3

SYS BOXX



4



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SYS BOXX



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SYS BOXX



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11



12

## DESCRIPTION

## ORDER NO.

1	SCHUKO cable plug, black <b>solid professional quality</b> w. bend relief 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-MC230/16PSW</b>
2	SCHUKO cable outlet, black, <b>solid professional quality</b> w. bend relief and cover 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FC230/16PSW</b>
3	SCHUKO flush-mount socket w. cover, blue 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FP230/16DBL</b>
	SCHUKO flush-mount socket w. cover, black 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FP230/16DSW</b>
4	IEC cable plug, black C13, 230 V/10 A (max. 1.5 mm <sup>2</sup> ), IP20	<b>SCHU-FP230/16XBL</b>
	SCHUKO flush-mount socket w. cover, blue 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>SCHU-FP230/16XSW</b>
5	CEE cable plug 3-pole, blue, 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE3-MC230/16-BL</b>
6	CEE cable outlet 3-pole w. cover, blue 230 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE3-FC230/16-BL</b>
7	CEE cable plug 5-pole, red 400 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE5-MC400/16-RT</b>
	CEE cable plug 5-pole, red 400 V/32 A (max. 6.0 mm <sup>2</sup> )	<b>CEE5-MC400/32-RT</b>
	CEE cable plug 5-pole, red 400 V/63 A (max. 16.0 mm <sup>2</sup> )	<b>CEE5-MC400/63-RT</b>
8	CEE cable outlet 5-pole w. cover red 400 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE5-FC400/16-RT</b>
	CEE cable outlet 5-pole w. cover, red 400 V/32 A (max. 6.0 mm <sup>2</sup> )	<b>CEE5-FC400/32-RT</b>
	CEE cable outlet 5-pole w. cover, red 400 V/63 A (max. 16.0 mm <sup>2</sup> )	<b>CEE5-FC400/63-RT</b>
9	CEE installation plug 5-pole, red 400 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE5-MP400/16-RT</b>
	CEE installation plug 5-pole, red 400 V/32 A (max. 6.0 mm <sup>2</sup> )	<b>CEE5-MP400/32-RT</b>
	CEE installation plug 5-pole, red 400 V/63 A (max. 16.0 mm <sup>2</sup> )	<b>CEE5-MP400/63-RT</b>
10	CEE flush-mount socket 5-pole w. cover, red 400 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE5-FP400/16-RT</b>
	CEE flush-mount socket 5-pole w. cover, red 400 V/32 A (max. 6.0 mm <sup>2</sup> )	<b>CEE5-FP400/32-RT</b>
	CEE flush-mount socket 5-pole w. cover, red 400 V/63 A (max. 16.0 mm <sup>2</sup> )	<b>CEE5-FP400/63-RT</b>
11	CEE cable plug 3-pole, yellow 110 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE3-MC110/16-GE</b>
12	CEE cable outlet 3-pole w. cover, yellow 110 V/16 A (max. 2.5 mm <sup>2</sup> )	<b>CEE3-FC110/16-GE</b>



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# Things to know about cables

## Earth, water, sun and fire

A good cable can be exposed to all these forces of nature – provided you take certain conditions into account.

### Water

Cables with a high-quality soft-PVC jacket may indeed be exposed to constant rain without affecting their function.

We are often asked if an audio or video cable with a PVC jacket can withstand dive sessions, e.g. in connection with underwater cameras. This is possible without problems as long as the cable is given enough time after the dives to become dry again. Also, brief installations under water are possible, but this depends on the water depth and the water pressure involved. Unfortunately, only empirical values are relevant here, because there

aren't any constructive technical specifications for this kind of cable. A PVC jacket is not suitable for permanent installations underwater; likewise, cables with an FRNC jacket are unsuitable due to the porous jacket compound.

For this task custom-made **longitudinally or transversely watertight cables** are required. The wires of which are insulated by uncured rubber (longitudinally watertight) or a special tape (transversely watertight). In some cases the cables are additionally armored with a metal or polyamide fiber braid and given a petroleum jelly filling for pressure compensation. Longitudinally watertight armored cables are used e.g. in shipbuilding or road construction.

### Sun

Cables are not UV-resistant in general; especially colored cables may react very sensitively to direct sunlight. To avoid premature aging due to UV radiation, an additive must be added to the colored granulates. We do this, among other things, with certain white cables to prevent them from becoming yellow too soon. If you want to be on the safe side, **always choose a black outer jacket**. SOMMER CABLE uses high-quality black soft-PVC, PMB and PUR outer jackets which will not get sunburnt even under sustained and direct sunlight.



Simply good vibes.

### Fire

Of course, musicians would never go on with their performance when the place around them is on fire. But why are fire-proof cables nonetheless so important? Many permanently installed cables are connected to alarm devices or loudspeakers (e.g. for announcements) and thus serve as safety in case of fire. In the event of a fire, you don't want cables releasing toxic and numbing gases (zero-halogen policy).

Since July 1st, 2017, cables and leads, which are permanently installed in buildings, are subject to the European Construction Products Regulation. This offers a list of European-wide standardized assessments into fire classes according to flame retardancy, smoke development and freedom from halogens. For more detailed information about the fire behavior of cables, visit the section MEANING OF THE SYMBOLS – "PROPERTIES" in our catalog or check out stop by at the bulk cable section on our webpage [www.sommercable.com](http://www.sommercable.com) and click on the buttons of the respective cables.



### Earth

For **underground installation** or permanent underwater installation we recommend **transversely watertight cables**. Almost all cables fitted with a high-quality insulation (preferably with a PE jacket) are transversely watertight, yet, during installation, one needs to make sure that the cables are pulled into HDPE protective pipes which must be sealed against moisture penetration on both sides.



If no protective pipes are planned, we recommend the **transversely watertight SOMMER CABLE** products of the **AQUA MARINEX** series. Depending on the model, these are designed for permanent use in water depths between 20 and 50 m and are protected against intruding water by a protective tape. Please note that there is no official approval for this application.

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1999

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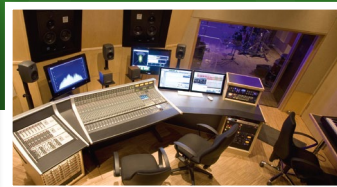
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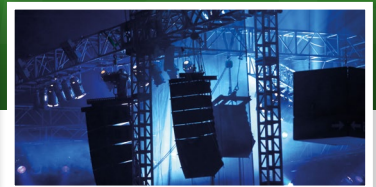
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**Professional Studio**



**Event Technology**



**SOMMER CABLE** based in Straubenhardt/Germany was founded in 1999 and is now one of the leading suppliers of professional high-quality cable and connection technology with a focus on the audio, video, broadcast, studio and media technology sectors. The product range including the in-house brands HICON, CARDINAL DVM and SYSBOXX covers cable bulkware, connectors, connection cables, individually adaptable distribution systems and electronics.

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