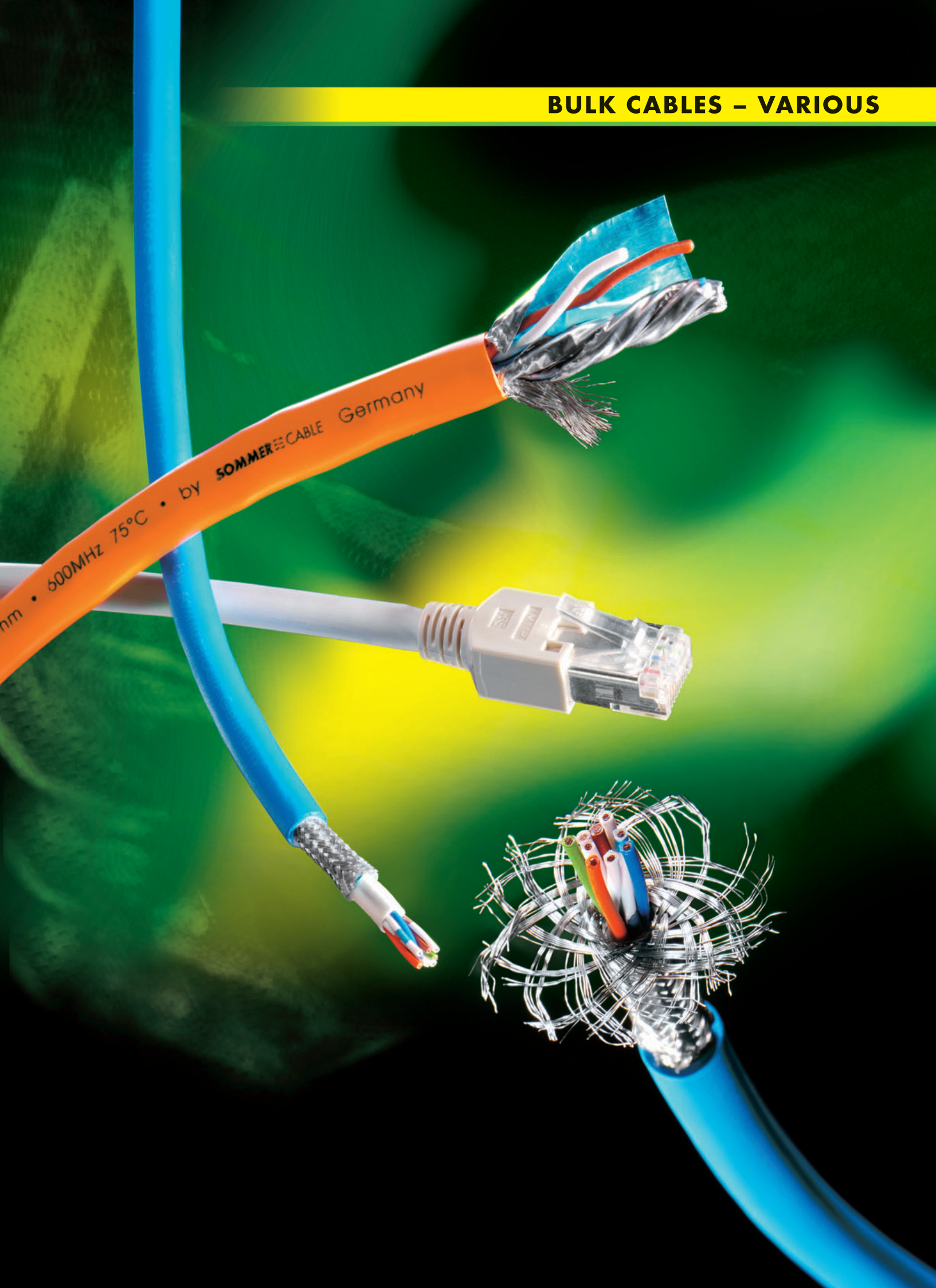


BULK CABLES – VARIOUS



OPTICAL FIBRES

POLYMER OPTICAL FIBRES (POF), DIGITAL, MULTIMODE

SC-OCTOPUS

☒ STUDIO
 ☒ INSTALLATION
 ☒ HIFI

☒ DIGITAL
 ☒ PUR

Who would have thought...

that the colorful fibre-optic bundles from the seventies would someday also be able to transmit digital audio signals?

Contrary to the common cheap fibres, those with approx. 0.4 dB/m already reaching a critical range starting at 6 m, the **SC-OCTOPUS** is a high quality cable with a damping value of less than 0.16 dB per meter, thus offering safe transmission properties even for longer lengths.

With a bending radius of only 17 mm the **SC-OCTOPUS** can be installed even in small spaces. The optimum wavelength is 660 nm.

For suitable tools and Toslink-plug connectors for easy do-it-yourself installation, see Chapter "Plug connectors".

APPLICATION:

- High quality connection for transmission of digital signals
- Connection of audio components with optical digital output

PRODUCT ADVANTAGES:

- Low damping values 0.16 dB/m for optimum transmission across longer distances
- Small bending cycle of 17 mm

OPTICAL FIBRES

GLASS FIBER CABLE 9/125µm SINGLE/MONOMODE OR 50/125µm MULTIMODE, CAT. OM2 ACC. IEC 794-1-E

SC-OCTOPUS-G

☒ MOBILE
 ☒ STUDIO
 ☒ INSTALLATION

☒ DIGITAL
 ☒ PUR
 ☒ TERRA

WARP 1,...

or better said, you will be able to reach the simple speed of light with our **SC-OCTOPUS-G** LWL cable. With this cable you can transmit your audio-digital signals across distances of up to 2 km (at 100 mbit/s). The fibres have a core diameter of either 9/125µm or 50/125µm and are housed in a robust PE- (installation) or PUR-jacket (mobile) with die-electric protection (rodent protection). The **SC-OCTOPUS-G** in PE is ideal for outdoor and ground installation, the PUR-version is windable, flame-retardant in compliance with IEC332-1, and suitable for mobile applications.

We also supply the **SC-OCTOPUS-G** premade with STII, SC-, or LC-connectors – for detailed information, see Section „Premade Cables“. Here you can find premade LWL-patch cables. Splice boxes are available in Section „Equipment + Accessories“.

APPLICATION:

- High quality, fast connection for the transmission of digital signals
- Powerful data-network installation in complex buildings (e.g. from office buildings to air port terminals)
- Indoor and outdoor transmission over long distances

PRODUCT ADVANTAGES:

- Optimum signal transmission over long distances
- Compact, light, robust, and free of metal
- Die-electrical glass fiber protection (rodent protection)
- Longitudinal water tightness in compliance with IED 60794-1-F5 (PE version)
- Suitable for 10 Gbit -service
- Windable, thus suitable for indoor and outdoor transmission over long transmission distances (PUR-version)

Ø mm	2.2	2.2x4.4	5.7
Ø Fiber	0.98	2x0.98	0.98

FREE SAMPLE AVAILABLE!

Ø mm	6.0	7.5	9.0
Ø Fiber	4x9/125	4x9/125	4x9/125
Ø Fiber	4x50/125	4x50/125	4x50/125

FREE SAMPLE AVAILABLE!

TECHNICAL DATA

Construction:	I-V xx-2Y1P 980/1000 µ
Jacket, diameter:	PE simplex: PE 2.2 mm PE duplex: PE 2.2 x 4.4 mm PUR version: PUR 5.7 mm
Inner conductors:	PMMA fiber 980/1000 µm
Temperature range:	-40 °C...+85 °C
Weight per 1 m:	PE simplex 3 g / duplex: 6 g / PUR: 23 g
Packaging:	per m
Matching plug:	POF-TOS

ELECTRICAL DATA

Numerical aperture:	0.47
Damping per m:	650 nm: 0.16 dB 850 nm: 1.90 dB
Typical wavelength:	660 nm

COLOR

- black, simplex
- black, duplex
- red, PUR, simplex

ORDER-NO.

- 590-0051**
- 590-0071**
- 590-0091**

TECHNICAL DATA

Construction:	ADQ(BN) 2YXX 9/125 µm or 50/125 µm A-V(ZN)11Y 04 9/125 µm or 50/125 µm
Jacket, diameter:	4-12: PE 7.5 mm (install.) 24: 9.0 mm (install.) / PUR 6.0 mm (mobile)
Inner conductors:	4 x 50/125 µm or 4 x 9/125 µm
Strain:	Tension strain: ≤1800 N; Diagonal press. strain: ≤1000 N
Temperature range:	PE: -30 °C...+70 °C / PUR: -55 °C...+60 °C
Weight per 1 m:	PE: 95 g / PUR: 30 g
Packaging:	per m

ELECTRICAL DATA

Damping per m:	50/125 µm: 850 nm: 0.0026 dB 50/125 µm: 1310 nm: 0.0015 dB 9/125 µm: 1310 nm: 0.0004 dB
Band width at 1 km:	850 nm: ≥ 400 MHz 1300 nm: ≥ 600 MHz

COLOR

- black, PE, 4 x 50/125 µm
- black, PE, 4 x 9/125 µm
- black, PE, 8 x 50/125 µm
- black, PE, 8 x 9/125 µm
- black, PE, 12 x 50/125 µm
- black, PE, 12 x 9/125 µm
- black, PE, 24 x 50/125 µm
- black, PE, 24 x 9/125 µm
- black, PUR, 4 x 50/125 µm
- black, PUR, 4 x 9/125 µm

ORDER-NO.

- 590-0411-04**
- 590-0421-04**
- 590-0411-08**
- 590-0421-08**
- 590-0411-12**
- 590-0421-12**
- 590-0411-24**
- 590-0421-24**
- 590-0311-04**
- 590-0321-04**

CAT.5 SKEW + DELAY-FREE CABLE FOR VIDEO- AND KVM-EXTENDERS

TWISTED PAIR FOR VIDEO- AND KVM-EXTENDER APPLICATIONS, NO SHIELDING

SC-MERCATOR CAT.5 EXTEND

MOBILE STUDIO INSTALLATION

DIGITAL FRNC PUR OFC

Less is more...

and that precisely describes the advantages of the **SC-MERCATOR CAT.5 EXTEND**. With the simple construction and the consistent length of layers the difference in runtime is minimal when compared to individual wire pairs. This characteristic is commonly known as SKEW DELAY-FREE. So, this cable is predestined for extender technology, especially for video- and KVM-extendors. One CAT.5-pair each symmetrically transmits the individual VGA-signal colors red, green, and blue. Differences in runtime between the wire pairs result in a timely displaced transmission of individual color signals, consequently falsifying the rendition of the entire signal. The results are resulant color shifts and colored edges. The 4th wire pair transmits SYNC-, keyboard, and mouse signals, the same as with professional KVM-extendors RS232, USB, and audio-signal (analog or digital, depending on the manufacturer). Our **SC-MERCATOR CAT.5 EXTEND** does not have any shielding, because unshielded cables provide the best possible image results for this application. Shielded cables have a more negative effect on the maximum length. We deliver the more reasonably priced PVC-version as well as the equally flexible, windable version with a special, halogen-free, flame-resistant PUR-jacket for mobile applications and permanent installation (corresponds to Test Type C accord. to IEC332-1).

NEW!

Ø mm
5.2

mm²
4x2x0.22

APPLICATION:

- Perfect cable for applications with video- and KVM-extendors
- Ideal for permanent installation and mobile applications

PRODUCT ADVANTAGES:

- Dependable signal transmission between sender and receivers for video- and KVM-extender systems
- Small differences in runtime between individual wire pairs
- High life expectancy and flexibility due to a special soft jacket mixture

TECHNICAL DATA

Construction:	LI2Y4x2x0.22mm ² /100MHz
Jacket, diameter:	PVC, 5.2 mm / PUR FRNC 5.2 mm
AWG:	AWG 24
Copper strand per cond.:	32 x 0.10 mm
Conductor insulation:	PE
Temperature range:	-20 °C...+75 °C
Fire load per m:	0.10 kWh
Weight per 1 m:	44 g
Packaging:	100/500 m roll

ELECTRICAL DATA

Capac. cond./cond. per 1 m:	49 pF @ 1kHz
Surge impedance:	100 Ω (+/- 15 Ω)
Maximum delay per 100 m:	510 ns
Damping per 100 m:	1 MHz: 1.9 db 16 MHz: 8.1 db 100 MHz: 21.0 db 155 MHz: 28.0 db 200 MHz: 32.0 db

FREE SAMPLE AVAILABLE!

COLOR

- green, PVC
- ★ green, PUR/FRNC

ORDER-NO.

581-0204
581-0204F

CAT.5 PUR CABLE

PATCH, OUTDOOR

SC-MERCATOR CAT.5 PUR

MOBILE STUDIO INSTALLATION

DIGITAL FRNC HALOGEN-FREE PUR OFC

Cat-Mobile

Here we are not talking about a roaming cat, but a CAT.5 PUR twisted pair for mobile and moving applications!

The **SC-MERCATOR CAT.5 PUR** is the perfect cable for outdoor application, on the cable drum, in the transmission vehicle, on cable slides, even in a cable chain it will stand out because of the high bending cycles and its long life expectancy. The halogen-free and flame-retardant PUR-sleeve (according to IEC60332.1) makes it extremely resistant to notching and cold temperatures, and a silicon-like sleeve on the wire stranding guarantees enduring transmission quality and improves the treadability. Of course the cable is RJ45-compatible. With a min. bending radius of approx. 40 mm and a max. transmission distance of 50 m.

SC-MERCATOR CAT.5 PUR is the Twisted Pair for mobile and moving applications!

Ø mm
6.0

Shielding
100 %

mm²
8x0.15

APPLICATION:

- Connection of computers and media-technical units
- PUR-version for mobile transmission vehicle application and outdoor application

PRODUCT ADVANTAGES:

- Safe data transfer due to the short pitch and the high quality insulation
- Long life expectancy due to the special jacket mixture
- Resistant to outdoor temperatures
- Easy to wind

TECHNICAL DATA

Construction:	SFTP4x2x0.14mm ² /PUR
Jacket, diameter:	PUR, 6.0 mm
AWG:	AWG26
Copper strand per cond.:	19 x 0.10 mm
Conductor insulation:	Skin PE
Shielding:	AL/PT-foil + copper braiding 90 % tin-plated
Shielding factor:	100 %
Temperature range:	-30 °C...+80 °C (fixed install.), -5 °C...+80 °C (mobile)
Fire load per m:	0.11 kWh
Weight per 1 m:	40 g
Packaging:	100/500 m roll

FREE SAMPLE AVAILABLE!

ELECTRICAL DATA

Capac. cond./cond. per 1 m:	48 pF
Surge impedance:	100 Ω (+/- 15 Ω)
Loop resistance:	max. 28.5 Ω/m
Max. section length:	50 m
Damping per 100 m:	1 MHz: 3.2 db 10 MHz: 9.5 db 16 MHz: 12.1 db 20 MHz: 13.6 db 32 MHz: 17.1 db 62 MHz: 24.8 db 100 MHz: 32.0 db

COLOR

- ★ blue, PUR, CAT.5
- ★ noir, PUR, CAT.5

ORDER-NO.

581-0052
581-0051

CAT.5E CABLE

TWISTED PAIR

SC-MERCATOR CAT.5E
SC-MERCATOR CAT.5E DUPLEX

MOBILE STUDIO INSTALLATION

DIGITAL FRNC HALOGEN-FREE OFC

It's better to be on the safe side...

now that computer cables are produced in such enormous quantities often the quality suffers in favor of low prices. This results in a time consuming, expensive search to find out why the transmission is of such poor quality.

To avoid this we supply a high quality version with a short pitch and a durable FRNC-jacket.

This cable is ideal to install for the transmission of high Class D bit-rates, conforming to ISO/IEC 11801, EN 50173 Approval (FAST ETHERNET, ATM155 Protocols). Also available as a flexible AWG26 patch cable with a PVC-jacket.

The CAT.5e installation cable is also available with additional braided shielding as a duplex cable. The installation cables (AWG24) are not suitable for RJ45-plug assembly.

CAT.6, CAT.6 PUR CABLE

TWISTED PAIR, OUTDOOR

SC-MERCATOR CAT.6
SC-MERCATOR CAT.6 PUR

MOBILE STUDIO INSTALLATION

DIGITAL FRNC HALOGEN-FREE PUR OFC

It's better to be on the safe side...

We deliver a high quality 4-twisted pair CAT-version with a short pitch of layers and a durable FRNC-sleeve. The CAT.6 distinguishes itself from the CAT.5e cable with a higher transmission frequency of 350 MHz (EN 50173 2ed, EN 50288-1, EN 50288-5-1, IEC 61156-5, ISO/IEC 11801 2ed) achieved by the special insulation on opposite wire pairs. The wire pairs are also separated by a cross-shaped spacer (see section drawing).

The **SC-MERCATOR PUR** is the perfect cable for outdoor use. The halogen-free, flame-resistant PUR-sleeve (IEC60332.1) makes it very resistant to notching and cold temperatures.

The PUR-version is suitable for RJ45-plug assembly.

BULK CABLES - VARIOUS



APPLICATION:

- Connection of computers and media-technical units

PRODUCT ADVANTAGES:

- Safe data transfer due to the short pitch and the high quality insulation
- Long life expectancy due to the special jacket mixture
- Length printed on the cable

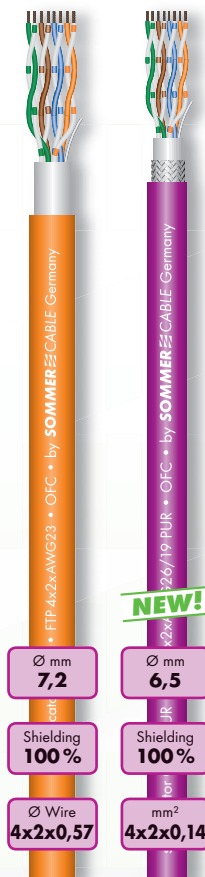
TECHNICAL DATA

Construction:	patch PVC: LI2Y(ST) 4x2x0.22mm ² /300MHz install FRNC: J02Y(ST)CY 4x2x0.51mm/300MHz
Jacket, diameter:	PVC/FRNC, 6.5 mm; Duplex: FRNC, 2 x 7.0 mm
AWG:	Patch AWG26; Install AWG24
Copper strand per cond.:	32 x 0.10 mm (patch)
Conductor insulation:	PE
Shielding:	AL/PT-foil + filler strand (+copper braid. at SFTP/PIMF)
Shielding factor:	100 %
Temperature range:	-20 °C...+70 °C
Fire load per m:	0.11 kWh
Brandlast je m (Duplex):	0.19 kWh
Weight per 1 m:	37 g
Weight per 1 m (Duplex):	92 g
Packaging:	100/500 m roll

ELECTRICAL DATA

Capac. cond./cond. per 1 m:	49 pF
Loop resistance:	16.8 Ω/m
Damping per 100 m:	1 MHz: 1.9 db 155 MHz: 23.0 db 16 MHz: 7.2 db 300 MHz: 32.0 db 100 MHz: 16.0 db
Surge impedance:	100 +/- 15 Ω
Max. section length:	100 m

COLOR	JACKET/TYPE	ORDER-NO.
■ grey	PVC, CAT.5e (AWG24) FTP	580-0056
■ grey	PVC, CAT.5e (AWG26) FTP	580-0106
★ grey	FRNC, CAT.5e (AWG24) FTP	580-0056F
★ grey	FRNC, CAT.5e (AWG26) FTP	580-0106F
★ grey	FRNC, CAT.5e (AWG24) SFTP	580-0076F
★ grey	FRNC, 2xCAT.5e (AWG24) SFTP	580-0096F



APPLICATION:

- Connection of computers and media-technical units
- Mobile outdoor and transmission vehicles (PUR)

PRODUCT ADVANTAGES:

- Short pitch of layers and high quality insulation
- Long life expectancy due to the special jacket mixture
- Length printed on the cable
- Resistant to outdoor temperatures, easy to wind (PUR)



Section

TECHNICAL DATA

	CAT.6	CAT.6 PUR
Construction:	FTP LSZH 4x2x0.57mm	SFTP4x2x0.14mm ² PUR
Jacket, diameter:	FRNC 7.2 mm	PUR 6.5 mm
AWG:	AWG23	AWG26/19
Copper strand per cond.:	1 x 0.57 mm	7 x 0.16 mm
Conductor insulation:	Skin PE	Skin PE
Shielding:	AL/PT-foil + filler strand	AL/PT-foil + copper braid. 65 % tin-plated
Shielding factor:	100 %	100 %
Temperature range:	-20 °C...+75 °C	-30 °C...+80 °C (fixed install.) -20 °C...+75 °C (mobile)
Fire load per m:	0.11 kWh	
Weight per 1 m:	57 g	70 g
Packaging:	100/500 m roll	100/500 m roll

ELECTRICAL DATA

Capac. cond./cond.:	46 pF	48 pF
Surge impedance:	100 Ω (+/- 15 Ω)	100 Ω (+/- 15 Ω)
Loop resistance:	14.9 Ω /m	max. 28.4 Ω/m
Max. section length:	100 m	100 m
Damping per 100 m:	1 MHz: 1.9 db 16 MHz: 7.1 db 100 MHz: 18.7 db 155 MHz: 23.8 db 300 MHz: 34.2 db 350 MHz: 37.0 db	1 MHz: 3.1 db 10 MHz: 9.0 db 16 MHz: 11.4 db 20 MHz: 12.8 db 32 MHz: 16.1 db 62 MHz: 32.2 db 100 MHz: 29.9 db

COLOR

★ orange, FRNC, CAT.6 (AWG23)

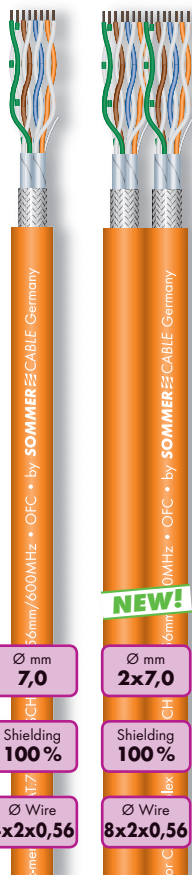
★ grey, PUR, CAT.6 (AWG26)

★ violet, PUR, CAT.6 (AWG26)

★ black, PUR, CAT.6 (AWG26)

ORDER-NO.

580-0465**580-0486****580-0488****580-0481**



CAT.7 CABLE

TWISTED PAIR

SC-MERCATOR CAT.7

☒ STUDIO
 ☒ INSTALLATION

☒ DIGITAL
 ☒ FRNC
 ☒ HALOGEN-FREE
 ☒ OFC

It's better to be on the safe side...

now that computer cables are produced in such enormous quantities often the quality suffers in favor of low prices. This results in a time consuming, expensive search to find out why the transmission is of such poor quality. To avoid this we supply a high quality CAT-version with a short pitch and a durable FRNC-jacket. This cable is ideal to install for the transmission of high Class F bit-rates conforming to Approval (FAST ETHERNET, ATM155 Protocols, EN 50173 2^{ed}, EN 50288-1, EN 50288-5-1, IEC 61156-5, ISO/IEC 11801 2^{ed}). Also available in a flexible AWG26-version for use as a patch cable. The installation cable is also available with additional braided shielding (SFTP) as a duplex cable.

APPLICATION:

- Connection of computers and media-technical units

PRODUCT ADVANTAGES:

- Short pitch of layers and high quality insulation
- Long life expectancy due to the special jacket mixture
- Length printed on the cable

TECHNICAL DATA

Construction patch:	J02YSCH 4x2x0,14mm ² /600MHz
Construction install:	J02YSCH 4x2x0,56mm/600MHz
Jacket, diameter:	FRNC, 7.0 mm
Jacket, diameter (Duplex):	FRNC, 2 x 7.0 mm
AWG:	patch AWG26/install AWG23
Copper strand per cond.:	32 x 0.10 mm (patch)/1 x 0.56 mm (install)
Conductor insulation:	Foam Skin-PE
Shielding:	AL/PT-foil + filler strand (+copper braid. at SFTP/PIMF)
Shielding factor:	100 %
Temperature range:	-20 °C...+70 °C
Fire load per m:	0.17 kWh
Fire load per m (Duplex):	0.21 kWh
Weight per 1 m:	65 g
Weight per 1 m (Duplex):	132 g
Packaging:	100/500 m roll

ELECTRICAL DATA

Capac. cond./cond. per 1 m:	49 pF
Loop resistance:	16.8 Ω/m
Damping per 100 m:	1 MHz: 1.9 db 155 MHz: 23.0 db 16 MHz: 7.2 db 300 MHz: 32.0 db 100 MHz: 16.0 db 600 MHz: 45.0 db
Surge impedance:	100 Ω (+/- 15 Ω)
Max. section length:	150 m

COLOR	JACKET/TYPE	ORDER-NO.
★ orange	FRNC, CAT.7 (AWG23) PIMF	580-0255F
★ grey	FRNC, CAT.7 (AWG26) PIMF SFTP	580-0306F
★ orange	FRNC, 2xCAT.7 (AWG23) PIMF SFTP	580-0295F

CAT.5e & 3x2.5mm² POWER COMBI-CABLE

TWISTED PAIR + POWER

SC-MERCATOR + P

☒ MOBILE (PVC)
 ☒ STUDIO
 ☒ INSTALLATION
 ☒ ELA

☒ DIGITAL
 ☒ FRNC
 ☒ OFC

Not only for ELA-technologies...

but also for industrial applications. That is where the **SC-MERCATOR+P** is used as a BUS-control cable. Of course it can also be used as a data and network cable with an additional control- and speaker wire or 3 power wires. For the FRNC version the maximum length is 100 m. The flexible PVC-version is suitable for mobile application (max. section length 50 m). The FRNC-version (IEC603 32.1) is preferred for fixed installation. Based on the surge impedance of 100 - 110 Ω the **SC-MERCATOR+P** can also be used for use as a DMX-signal cable.

APPLICATION:

- Fixed installation in ELA-technology, networking, and data technology
- Mobile application (PVC)

PRODUCT ADVANTAGES:

- Dependable and loss-free transmission of data + power in one cable
- Suitable for mobile application (running length LAN max. 50 m)
- BUS-suitable control cable

TECHNICAL DATA

Construction PVC:	SFTP4x2x0,14mm ² +3x2.5mm ²
Construction FRNC:	SFTP4x2x0,51mm+3x2.5mm ²
Jacket, diameter:	PVC 13.5 mm / FRNC version: FRNC 11.0 mm
Inner conductors PVC:	4 x 2 x 0.14 mm ² (AWG26/7)+ 3 x 2.5 mm ²
Inner conductors FRNC:	4 x 2 x 0.51 mm (AWG24) + 3 x 2.5 mm ²
Conductor insulation:	PE
Shielding:	Copper braiding tin-plated 55 % + AL/PT-foil
Shielding factor:	100 %
Temperature range:	-20 °C...+75 °C
Fire load per m:	0.77 kWh / FRNC: 0.58 kWh
Weight per 1 m:	205 g
Packaging:	100 m roll, per m

ELECTRICAL DATA

Capac. cond./cond. per 1 m:	47 pF (CAT.5e)
Insulation resist. per 1 km:	> 2 GΩ
Surge impedance:	100 Ω +/- 15 %
Loop resistance:	max. 168 Ω/m
Velocity factor:	0.74
Damping per 100 m (20 °C):	PVC FRNC
	1 MHz: 2.5 db 1 MHz: 1.9 db
	4 MHz: 5.2 db 4 MHz: 3.8 db
	10 MHz: 8.4 db 10 MHz: 6.0 db
	20 MHz: 12.5 db 20 MHz: 8.6 db
	31 MHz: 16.0 db 31 MHz: 10.8 db
	62 MHz: 23.6 db 62 MHz: 15.5 db
	100 MHz: 29.9 db 100 MHz: 20.0 db
	155 MHz: 37.4 db 155 MHz: 26.2 db
	200 MHz: 42.8 db 200 MHz: 29.5 db

COLOR	ORDER-NO.
■ grey, PVC, AWG26/7	580-0186
★ grey, FRNC, AWG24	580-0186F

CAT.6 & POWER COMBI-CABLE

TWISTED PAIR + POWER

SC-MONOCAT POWER

☒ STAGE
 ☒ MOBILE
 ☒ STUDIO
 ☒ INSTALLATION

☒ ANALOG
 ☒ DIGITAL
 ☒ FRNC
 ☒ HALOGEN-FREE
 ☒ PUR

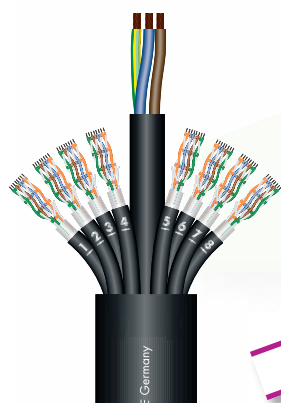
☒ OFC

Cable abuse without punishment

This combi-cable consists of either eight or two CAT.6-cables in combination with an insulated power cable.

The **SC-MONOCAT POWER 81** and **21** are suitable for fixed installation as well as mobile applications.

We have made the **SC-MONOCAT POWER** fit for the road and equipped it with a halogen-free PUR FRNC-jacket that is resistant to notching and cold temperatures.



FREE SAMPLE AVAILABLE!

HOSE CABLE H05VV-F

FLEXIBLE ACCORD. TO DIN VDE 0281, SELF-EXTINGUISHING + FLAME-RETARDANT ACCORD. TO (CEI20-22II, TEST TYPE B)

SPYRO FLEX & SPYRO HIGHFLEX

☒ MOBILE
 ☒ STUDIO
 ☒ INSTALLATION
 ☒ ELA

☒ FRNC
 ☒ OFC

High heels...

will not harm this cable. The **SPYRO FLEX** is ideally suited to supply power to household units, audio components, office machines, and other technical units. It has very fine wires accord. to DIN VDE 0295 Class 5, IEC228 and is produced with an optimum length of lay to avoid the dreaded memory effect, known to adversely affect power cables.

For years we have been producing this cable for the manufacturers of power rails, where it is accepted very well. The **SPYRO FLEX** is a cable manufactured at our own facilities and has many distinguishing features compared to most cheap import products: It is extremely round, balanced to an optimum, and contains high quality copper that will tolerate thousands of bending cycles.

Please observe: Because we also produce this cable for electrical wholesalers and OEM customers, it is only available with the DIN-imprint or other certification information, i.e. not with the **SOMMER CABLE** logo.



Ø mm
6.8

Ø mm
7.2

Ø mm
8.2

Ø mm
10.1

mm²
3x0.75

mm²
3x1.0

mm²
3x1.5

mm²
3x2.5

FREE SAMPLE AVAILABLE!

APPLICATION:

- Control of DMX-light mixing boards
- Mobile application
- Analog + digital audio multipair with LAN- and power supply
- Fixed installation (FRNC IEC332.1)

PRODUCT ADVANTAGES:

- LAN-signal transmission incl. power in one cable
- LAN-cable for use as an additional control cable
- Enormously tough with a jacket made of PUR

TECHNICAL DATA

SC-MONOCAT
POWER 21SC-MONOCAT
POWER 81

Construction:	[[3LI9Y11Y3x2.5mm²]Y+..x(4X(2LI2YX0.22mm²))](ST)Y]Y	
Jacket, diameter:	PUR halogen-free, 17.7 mm	PUR, 26.8 mm
Inner conductor:	3 x 2.5 mm² (140x0.15mm) 2 x 4 x 2 x AWG26	3 x 2.5 mm² (140x0.15mm) 8 x 4 x 2 x AWG26
Cond. insulation:	PP	PP
Shielding:	AL/PT-foil (LAN CAT.6)	AL/PT-foil (LAN CAT.6)
Shielding factor:	100 %	100 %
Temperature range:	-30 °C...+70 °C	-30 °C...+70 °C
Fire load per m:	1.01 kWh	1.69 kWh
Weight per 1 m:	380 g	735 g
Packaging:	per m	per m

ELECTRICAL DATA

Capac. cond./cond. per 1 m:	48 pF	48 pF
Capac. cond./shield. per 1 m:	100 pF	100 pF
Cond. resistance per 1 km:	80 Ω	80 Ω
Max. section length:	100 m	100 m
Surge impedance:	100 Ω	100 Ω

COLOR

- black, PUR, version 21
- black, PUR, version 81

ORDER-NO.

- 500-0171-2**
- 500-0171-8**

APPLICATION:

- For mobile application and fixed installation in buildings
- Power cable for household use or audio technology
- In damp and wet rooms

PRODUCT ADVANTAGES:

- Available and in stock in two colors and different wire diameters
- In moving condition it stays flexible to -10 °C (fixed installation -40 °C)
- Protective conductor in green/yellow
- Self-extinguishing and flame-retardant accord. to VDE 0472, Part 804 Test Type B
- Wire identification accord. to color code DIN VDE 0293

TECHNICAL DATA

Construction:	H05VV-F
Copper strand per conductor:	accord. to DIN VDE 0295 Class 5
Cond. insulation:	S-PVC accord. to DIN VDE0207 Part 4
Temperature range:	-40 °C...+70 °C (fixed installation) -10 °C...+70 °C (mobile)
Packaging:	100 m roll

ELECTRICAL DATA

Insulation resistance per 1 km:	> 20 MΩ
Operating voltage U0:	350 V (rotary a. single-phase change power plants)
Operating voltage U:	550 V (rotary a. single-phase change power plants)
Operating voltage U0:	495 V (in DC-current power plants)
Operating voltage U:	825 V (in DC-current power plants)
Test voltage at 50 Hz:	1200 V (cond./cond.); 800 V (cond./shield.)
Test AC-voltage, 50 Hz:	2000 V

COLOR Ø INNER COND. WEIGHT ORDER-NO.

■ black	6.8 mm	3 x 0.75 mm²	62 g/m	705-0051-3075
■ black	7.2 mm	3 x 1.00 mm²	74 g/m	705-0051-3100
□ white	7.2 mm	3 x 1.00 mm²	74 g/m	705-0050-3100
■ black	8.2 mm	3 x 1.50 mm²	106 g/m	705-0051-3150
□ white	10.1 mm	3 x 2.50 mm²	158 g/m	705-0050-3250

CONTROL WIRE (LIY-CY)

FLEXIBLE, EMC- OVERALL COPPER BRAIDING IN COMPL. WITH DIN 47100, SELF-EXTINGUISHING AND FLAME-RETARDANT IN COMPL. WITH CEI20-22II (TEST TYPE B)

CONTROL FLEX

*Who wants to pay taxes...*

but in this case an exception just has to be made. To understand that German "joke" you need to know that "tax" and "control" both are translated with "Steuer". We supply a robust and yet very flexible control cable, which is used as a signal cable for the milliamper range on control units (e.g. RS232 and RS422) and computer systems. This special jacket is self-extinguishing and flameretardant in compliance with VDE 0472, Part 804, Test Type B.

The **CONTROL FLEX** is rounded off with shielding made of copper braiding (opt. cover > 90 %). This makes it especially suitable for EMCproblem applications. Please note: as we also produce this cable for wholesalers of electrical equipment and OEM customers, it is usually only available with the DIN-imprint or other approbation, i.e. without the **SOMMER CABLE** logo.

APPLICATION:

- Fixed installation in building technology
- Signal wire for control technology
- Transmission of RS232- and RS422-standards
- Speaker cable for ELA-technology

PRODUCT ADVANTAGES:

- Available and in stock in seven different wire diameters
- Remains flexible in moving condition to -10 °C (fixed install. -30 °C)
- Largely oil-resistant
- Self-extinguishing and flame-retardant in compliance with VDE 0472, Part 804, Test Type B
- Very easy to work with

FREE SAMPLE AVAILABLE!

TECHNICAL DATA

Construction:	LIY-CY
Copper strand per conductor:	according to DIN VDE 0295
Conductor insulation:	PVC/FRNC accord. to DIN VDE0207 part 4
Shielding:	Copper braiding tin-plated
Shielding factor:	90 %
Temperature range:	-30 °C...+70 °C (fixed installation) -10 °C...+70 °C (mobile)
Jacket color:	■ grey (RAL 7001)
Packaging:	100/1000 m roll

ELECTRICAL DATA

Capac. cond./cond. per 1 m:	120 pF
Capac. cond./shield. per 1 m:	240 pF
Cond. resistance per 1 km:	< 165Ω
Insulation resist. per 1 km:	> 20 MΩ
Inductance at 1 km:	0,65 MHz
Operation voltage:	350 V (0.14 mm ²) / 500 V (0.25 mm ²)
Test voltage at 50 Hz:	1200 V (cond./cond.) 800 V (cond./shield.)

Inner cond.	Ø mm	ORDER-NO.
3 x 0.14mm ²	4.00	380-0056-03014
4 x 0.14mm ²	4.20	380-0056-04014
5 x 0.14mm ²	4.50	380-0056-05014
6 x 0.14mm ²	4.80	380-0056-06014
7 x 0.14mm ²	4.80	380-0056-07014
8 x 0.14mm ²	5.50	380-0056-08014
10 x 0.14mm ²	6.10	380-0056-10014
12 x 0.14mm ²	6.30	380-0056-12014
14 x 0.14mm ²	6.50	380-0056-14014
16 x 0.14mm ²	6.80	380-0056-16014
30 x 0.14mm ²	8.50	380-0056-30014

Inner cond.	Ø mm	ORDER-NO.
2 x 0.25mm ²	4.20	380-0056-02025
3 x 0.25mm ²	4.40	380-0056-03025
4 x 0.25mm ²	4.70	380-0056-04025
6 x 0.25mm ²	5.70	380-0056-06025
7 x 0.25mm ²	5.70	380-0056-07025
8 x 0.25mm ²	6.30	380-0056-08025
10 x 0.25mm ²	6.90	380-0056-10025
12 x 0.25mm ²	7.10	380-0056-12025
16 x 0.25mm ²	7.80	380-0056-16025

Inner cond.	Ø mm	ORDER-NO.
3 x 0.34mm ²	4.90	380-0056-03034
4 x 0.34mm ²	5.50	380-0056-04034
6 x 0.34mm ²	6.30	380-0056-06034
7 x 0.34mm ²	6.30	380-0056-07034
8 x 0.34mm ²	7.00	380-0056-08034
12 x 0.34mm ²	7.90	380-0056-12034
16 x 0.34mm ²	8.90	380-0056-16034

Inner cond.	Ø mm	ORDER-NO.
2 x 0.50mm ²	5.50	380-0056-02050
4 x 0.50mm ²	6.30	380-0056-04050
6 x 0.50mm ²	7.20	380-0056-06050
7 x 0.50mm ²	7.20	380-0056-07050
8 x 0.50mm ²	8.00	380-0056-08050
10 x 0.50mm ²	9.10	380-0056-10050
16 x 0.50mm ²	10.40	380-0056-16050

Inner cond.	Ø mm	ORDER-NO.
4 x 0.75mm ²	7.00	380-0056-04075
8 x 0.75mm ²	9.20	380-0056-08075
10 x 0.75mm ²	10.40	380-0056-10075
12 x 0.75mm ²	10.80	380-0056-12075



SILICON CABLE

FOR LOAD APPLICATION/ HEAT-RESISTANT

SC-SILCOFLEX

⊗ STAGE ⊗ MOBILE ⊗ INSTALLATION

A thick coat...

protects the inner life from outer influences. Here a watertight silicon-jacket, resistant to temperatures (-60 °C...+180 °C), protects the wires from short circuiting, especially during long uses with high temperature differences.

The drip-resistant insulation consists of silicon rubber and is also resistant to oil, alcohol, and grease, as well as diluted acids, solutions, oxygen, and ozone. The rubber jacket is highly flexible and ensures bending cycles up to 15 mm.

The fine copper stranding is tin-plated and constructed in compliance with VDE0295, Class 5.

Ø mm
8.0

mm²
3x1.5

APPLICATION:

- Load and lighting technology for outdoors
- Heated vicinity around machines, foundries, mills, etc.
- Also suitable for cold areas outdoors to -60 °C

PRODUCT ADVANTAGES:

- Highly consistent temperature due to silicone-jacket and the insulation
- Excellent protection against short circuiting under extreme weather conditions
- High flexibility up to a bending radius of 15 mm

TECHNICAL DATA

Construction:	SIHF-J 3x1.5mm ²
Jacket, diameter:	Silicone 8.0 mm
Copper strand per conductor:	according to VDE 0295
Conductor insulation:	Silicon rubber
Temperature range:	-60 °C...+180 °C
Weight per 1 m:	108 g
Packaging:	100 m roll

ELECTRICAL DATA

Nominal voltage:	500 V
Test voltage:	2000 V

COLOR

- black
- red

ORDER-NO.

700-0401-0315
700-0403-0315

FREE SAMPLE
AVAILABLE!



MULTICORE

FOR LOAD CABLING

SC-ATRIUM FLEX

SC-ATRIUM FLEX NEO

⊗ STAGE ⊗ MOBILE ⊗ INSTALLATION

Your hair will stand on end...

if the cable is badly insulated. Where there is electricity the quality of the jacket material and the wire insulation are very important, because a short circuit can really mess up your hairstyle!

The strand construction **SC-ATRIUM FLEX** was designed in compliance with VDE 0295, Class 6. The wire insulation is clearly numbered, the protective conductor in the outer layer is marked in green/yellow. The cable is enormously resistant to wear and stands up well to aggressive environmental influences. In compliance with DIN 15568 (multicore systems for film and TV-production studios) and DIN 15565 (electrical power distribution systems for film and TV-production studios) load multicore cables with rubber jackets are required for outdoor applications.

Our **SC-ATRIUM FLEX NEO**, manufactured accord. to H07RN-F specifications, fulfills these and all other common requirements. It remains flexible in cold temperatures, is UV-resistant, ozone-free, and flame-retardant.

Ø mm
14.5

mm²
14x1.5

Ø mm
16.7

mm²
18x1.5

Ø mm
19.0

mm²
18x2.5

NEW!

Ø mm
23.0

mm²
14x2.5

NEW!

APPLICATION:

- Lighting technology and other current-carrying circuits
- All types of machines
- Automation technology

PRODUCT ADVANTAGES:

- Space saving diameter due to special insulating material
- Enormously resistant to wear and cutting due to the special PVC-jacket
- Clearly marked with numbers on wiring (VDE 0250)
- Weatherproof outdoor version accord. to DIN 15568 and 15565 (SC-ATRIUM FLEX NEO)

TECHNICAL DATA

Construction:	FLEX JZ 14x1.5mm ²	FLEX JZ 18x1.5mm ²	FLEX JZ 18x2.5mm ²
Jacket, diameter:	PVC 14.5 mm	PVC 16.7 mm	PVC 19.0 mm
Copper strand per cond.:	according to VDE 0295		
Conductor insulation:	Special PVC	Special PVC	Special PVC
Temperature range:	-10 °C...+70 °C	-10 °C...+70 °C	-10 °C...+70 °C
Fire load per m:	0.74 kWh	0.88 kWh	0.96 kWh
Weight per 1 m:	350 g	429 g	630 g
Jacket color:	■ black	■ black	■ black
Packaging:	100 m roll, per m	100 m roll, per m	100 m roll, per m
Test voltage:	4 kV	4 kV	NEW!
ORDER-NO.	700-0051-1415	700-0051-1815	700-0051-1825

TECHNICAL DATA

Construction:	H07RN-F 14x2.5mm ²
Jacket, diameter:	23.0 mm
Copper strand per cond.:	nach DIN 0293
Conductor insulation:	Gummi
Temperature range:	-25 °C ... + 60 °C
Weight per 1 m:	850 g
Jacket color:	■ black
Packaging:	per m
Insulation resistance per 1 km:	1 MΩ
Test voltage:	2 kV
ORDER-NO.	700-0101-1425 NEW!

FREE SAMPLE
AVAILABLE!

MULTICORE

FOR LOAD CABLING

SC-ATRIUM FLEX

 STAGE
  MOBILE
  INSTALLATION

Your hair will stand on end...

if the cable is badly insulated. Where there is electricity the quality of the jacket material and the wire insulation are very important, because a short circuit can really mess up your hairstyle! The strand construction **SC-ATRIUM FLEX** was designed in compliance with VDE 0295, Class 6. The wire insulation is clearly numbered, the protective conductor in the outer layer is marked in green/yellow.

The cable is enormously resistant to wear and stands up well to aggressive environmental influences.

Ø mm

11.5

Ø mm

13.5

Ø mm

14.5

Ø mm

16.7

Ø mm

8.3

Ø mm

9.1

Ø mm

11.3

Ø mm

15.0

Ø mm

16.1

Ø mm

18.1

mm²

7x1.5

mm²

12x1.5

mm²

14x1.5

mm²

18x1.5

mm²

3x2.5

mm²

4x2.5

mm²

7x2.5

mm²

12x2.5

mm²

14x2.5

mm²

18x2.5

APPLICATION:

- Lighting technology and other current-carrying circuits
- All types of machines
- Automation technology

PRODUCT ADVANTAGES:

- Space saving diameter due to special insulating material
- Enormously resistant to wear and cutting due to the special PVC-jacket
- Clearly marked with numbers on wiring (VDE 0250)

FREE SAMPLE
AVAILABLE!

TECHNICAL DATA

Construction:	FLEX JZ 7x1.5mm ²	FLEX JZ 12x1.5mm ²	FLEX JZ 14x1.5mm ²	FLEX JZ 18x1.5mm ²
Jacket, diameter:	PVC 11.5 mm	PVC 13.5 mm	PVC 14.5 mm	PVC 16.7 mm
Copper strand per cond.:	accord. to VDE 0295	accord. to VDE 0295	accord. to VDE 0295	accord. to VDE 0295
Conductor insulation:	Special PVC	Special PVC	Special PVC	Special PVC
Temperature range:	-10 °C...+70 °C	-10 °C...+70 °C	-10 °C...+70 °C	-10 °C...+70 °C
Fire load per m:	0.40 kWh	0.67 kWh	0.74 kWh	0.88 kWh
Weight per 1 m:	189 g	295 g	350 g	429 g
Jacket color:	■ grey	■ grey	■ grey	■ grey
Packaging:	100 m, per m	100 m, per m	100 m, per m	100 m, per m
Test voltage:	4 kV	4 kV	4 kV	4 kV

ORDER-NO.

700-0056-0715

700-0056-1215

700-0056-1415

700-0056-1815

TECHNICAL DATA

Construction:	FLEX JZ 3x2.5mm ²	FLEX JZ 4x2.5mm ²	FLEX JZ 7x2.5mm ²	FLEX JZ 12x2.5mm ²	FLEX JZ 14x2.5mm ²	FLEX JZ 18x2.5mm ²
Jacket, diameter:	PVC 8.3 mm	PVC 9.1 mm	PVC 11.3 mm	PVC 15.0 mm	PVC 16.1 mm	PVC 18.1 mm
Copper strand per cond.:	accord. to VDE 0295	accord. to VDE 0295	accord. to VDE 0295	accord. to VDE 0295	accord. to VDE 0295	accord. to VDE 0295
Conductor insulation:	Special PVC	Special PVC	Special PVC	Special PVC	Special PVC	Special PVC
Temperature range:	-10 °C...+70 °C	-10 °C...+70 °C	-10 °C...+70 °C	-10 °C...+70 °C	-10 °C...+70 °C	-10 °C...+70 °C
Fire load per m:	0.39 kWh	0.45 kWh	0.58 kWh	0.78 kWh	0.86 kWh	0.95 kWh
Weight per 1 m:	127 g	154 g	247 g	424 g	490 g	622 g
Jacket color:	■ grey	■ grey	■ grey	■ grey	■ grey	■ grey
Packaging:	100 m, per m	100 m, per m	100 m, per m	100 m, per m	100 m, per m	100 m, per m
Test voltage:	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV

ORDER-NO.

700-0056-0325

700-0056-0425

700-0056-0725

700-0056-1225

700-0056-1425

700-0056-1825

We reserve the right to increase the material prices if commodity prices should continue to rise.

- Subject to change • See the price list for prices • The General Terms and conditions apply (see www.sommercable.com) -

RUBBER SLEEVE CABLE

(HAR) FOR HEAVY CURRENT

SC-RUBBERFLEX

⊗ STAGE ⊗ MOBILE ⊗ INSTALLATION

You won't be making a mistake...

if you swim with the current. Just order the rubber jacket cable H07RN-F, one of the best-selling cables on the world market. It can be used as a power line for audio components, spots, and heavy machinery (mechanical engineering), and also outdoors. This cable is very robust, has a Neoprene-jacket that is extremely resistant to wear and highly flexible.

Approval according to VDE 0282, Part 4/HD 22.453, conforming with 73/23EWG, AF-Guidelines CE.

Ø mm 11.9	Ø mm 14.0	Ø mm 17.0	Ø mm 23.0	Ø mm 17.5	Ø mm 19.5	Ø mm 30.5
mm ² 3x1.5	mm ² 3x2.5	mm ² 5x2.5	mm ² 14x2.5	mm ² 3x6.0	mm ² 5x6.0	mm ² 5x16.0

APPLICATION:

- Power connection for all types of electrical units
- Audio technology (light dimmers, spots, amplifiers, racks...)
- Mechanical engineering and agricultural machinery

PRODUCT ADVANTAGES:

- Extremely dependable due to the flame retardant jacket made of Neoprene (polychloroprene-rubber)
- Very flexible due to the fine strand construction in compliance with VDE 0293
- Also suitable for outdoor use

FREE SAMPLE
AVAILABLE!

TECHNICAL DATA

Construction:	H07RN-F 3x1.5mm ²	H07RN-F 3x2.5mm ²	H07RN-F 5x2.5mm ²	H07RN-F 14x2.5mm ²
Jacket, diameter:	11.9 mm	14.0 mm	17.0 mm	23.0 mm
Copper strand 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:	-25 °C...+60 °C	-25 °C...+60 °C	-25 °C...+60 °C	-25 °C ... + 60 °C
Weight per 1 m:	165 g	235 g	345 g	850 g
Jacket color:	■ black	■ black	■ black	■ black
Packaging:	per m	per m	per m	per m
Insulation resist. per 1 km:	1 MΩ	1 MΩ	1 MΩ	1 MΩ
Test voltage:	2 kV	2 kV	2 kV	2 kV
ORDER-NO.	700-0101-0315	700-0101-0325	700-0101-0525	700-0101-1425 NEW!

TECHNICAL DATA

Construction:	H07RN-F 3x6.0mm ²	H07RN-F 5x6.0mm ²	H07RN-F 5x16.0mm ²
Jacket, diameter:	17.5 mm	19.5 mm	30.5 mm
Copper strand per conductor:	accord. to DIN 0293	accord. to DIN 0293	accord. to DIN 0293
Conductor insulation:	rubber	rubber	rubber
Temperature range:	-25 °C...+60 °C	-25 °C...+60 °C	-25 °C...+60 °C
Weight per 1 m:	495 g	630 g	1540 g
Jacket color:	■ black	■ black	■ black
Packaging:	per m	per m	per m
Insulation resist. per 1 km:	1 MΩ	1 MΩ	1 MΩ
Test voltage:	2 kV	2 kV	2 kV
ORDER-NO.	700-0101-0360	700-0101-0560	700-0101-05160