



Syntax[®] Cable series

A complete range of products suited for a wide variety of applications where reliability, mechanical resilience and signal clearness are required

SYNTAX[®] CABLE



VALENTINI



Inventors, manufacturers, innovators.

Valentini is a dynamic, ever-evolving company operating in over 60 countries worldwide. For more than 30 years we have actively researched, designed and manufactured connectors for power, signal and hybrid applications. Our Syntax connectors have been used all over the world to manage power and electric signals in fields such as industry, automotive, broadcasting, shipbuilding & ship to shore power, international sporting events, live shows, military & national emergency management by agencies such as the Italian Civil Protection Department, and so many more. Valentini is an environmentally-aware company where respect for the environment is an integral part of the manufacturing process. Our team is motivated and mindful of details, as we know details are important in our pursuit of uncompromised quality and utmost reliability.

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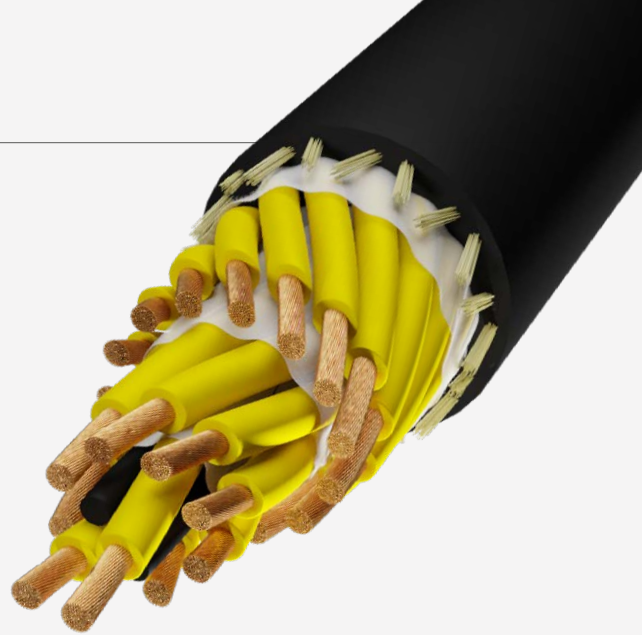
Heavy-duty CD series
CD series



Syntax® Cable

Designed for high quality and performance

The Valentini Syntax® Cable range has been developed for a wide variety of possible applications: network cables, used everywhere from simple office connections to medical appliances up to heavy industry; cables for the entertainment world, loudspeakers, lights, microphones, mixers; energy cables to bring power wherever it is needed; the endless possibilities of hybrid signal and power connections with a single cable. The common denominator of all these products is the excellence of the electrical and mechanical properties and the thorough attention to the designs and materials, certified by our Syntax Cable brand.



Typical applications

- Concerts and live performances
- Sporting events
- Power distribution
- Civil protection installations
- Network management
- Lighting
- Electrical power systems
- Indoor and outdoor broadcasting
- Conferences and fairs
- Shipment and logistics
- Industrial automation
- Transport networks
- Biomedical equipment
- Access control
- Surveillance systems

Syntax cable features

Icons and descriptions

An explanation of the characteristics highlighted in each cable's page and the icons we used to illustrate them. This page is where we present all the icons we used throughout the website to make you find immediately the most important and defining features of each cable. We divided them by category and explained every icon with a brief description.

Normative and compliance



CE Marking

The CE marking on a product indicates that the manufacturer of the product affirms its compliance with the relevant EU legislation and, therefore, can be sold in the EU.



RoHS compliant

In addition to our standard range, the extreme level of possible customizations provide an almost limitless number of solutions.



IEC 60332 compliant

IEC 60332 is a normative issued by the International Electrotechnical Commission about test values pertaining cable flammability and fire propagation classifications.



Low Smoke Zero Halogen

LSZH cable jackets are built to emit limited smoke and no halogen when exposed to high sources of heat. To be certified, a cable must conform to a specific set of norms.

Building features



Highly flexible

The adoption of particular internal construction elements allow the drastic reduction of friction between the components of the cable, the different cores, thus minimizing the mechanical stresses induced during the installation process, when subject to bending.



Multiple shielding

Cables with multiple layers of shieldings. Depending on the type of cable and the categories of signals for which the cables have been designed, the shields can be made using different combinations of materials and/or construction techniques, thus obtaining maximum isolation from external or self-induced interference.



PUR Sheath

The polyurethane of the outer sheath of these cables gives the cable high surface hardness, excellent resistance to abrasion and a very low coefficient of friction. This allows to reduce sheath thickness without compromising its strength and safety, giving the cable a narrower total diameter compared to common PVC sheaths.



Double sheath

Outer thick sheath that ensures high robustness and the maintenance of functional distances between internal components. The sheath is made through a double extrusion process, giving the cable the option to remove a layer thus allowing the use of connectors that would not support the housing of larger cables.

Usage type



Outdoor use

Exposure to bad weather and sunlight can degrade the outer sheaths over time. The careful choice of PVC compounds makes these cables insensitive to normal environmental conditions and gives greater resistance to exposure to UV rays (UV-resistant jackets).



Temporary installation

The external sheaths are made with a particular PVC compound allowing larger thicknesses, thus ensuring greater strength against crushing and dragging without compromising the weight and general flexibility. Particular distribution techniques of the internal elements make the cable resistant to deformations due to frequent winding cycles.



Permanent installation

The use of optimized thicknesses, the choice of specific materials and a particular care for design essentially allow for generally thinner cables, in order to reduce costs for jobs requiring permanent installations.

Resistance qualities



Wide temperature range

Special PVC Compounds allow these cables to resist over time in particularly hostile environments characterized by large thermal excursions.



Flame retardant

These cables are designed with self-extinguishing characteristics in order to avoid the spreading of flames in the event of fire.



Oil resistant

The external sheaths of these cables allow use in environments contaminated by oils, avoiding the premature degradation of the electromechanical characteristics of the components.

Network categories



CAT5e Network

ISO/IEC 11801 Cat5e Compliant.



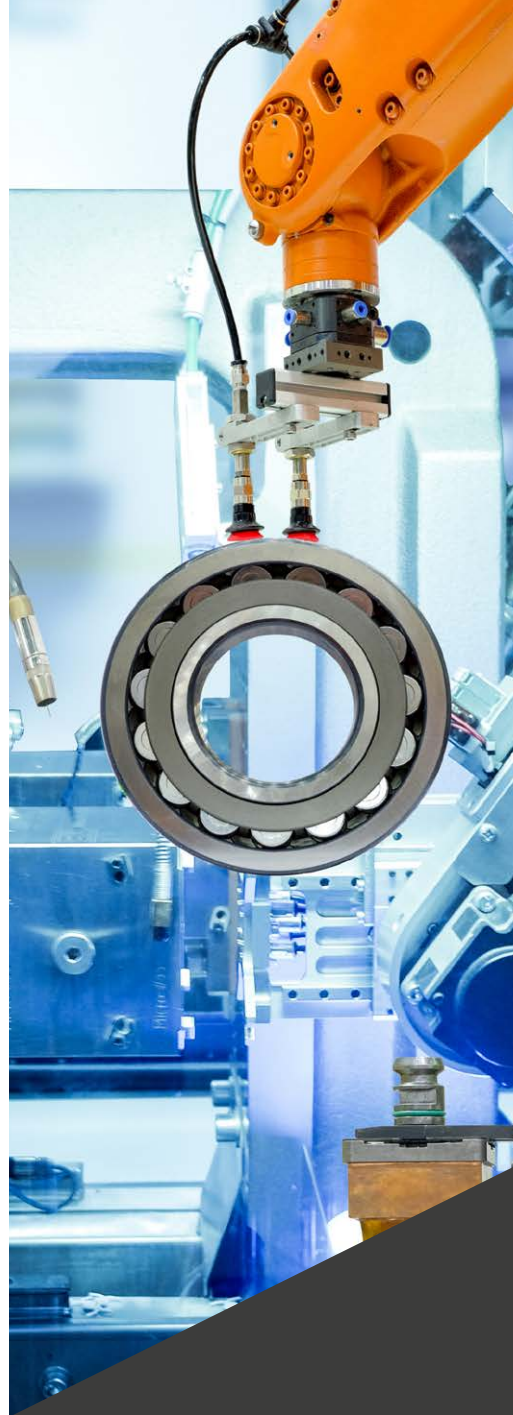
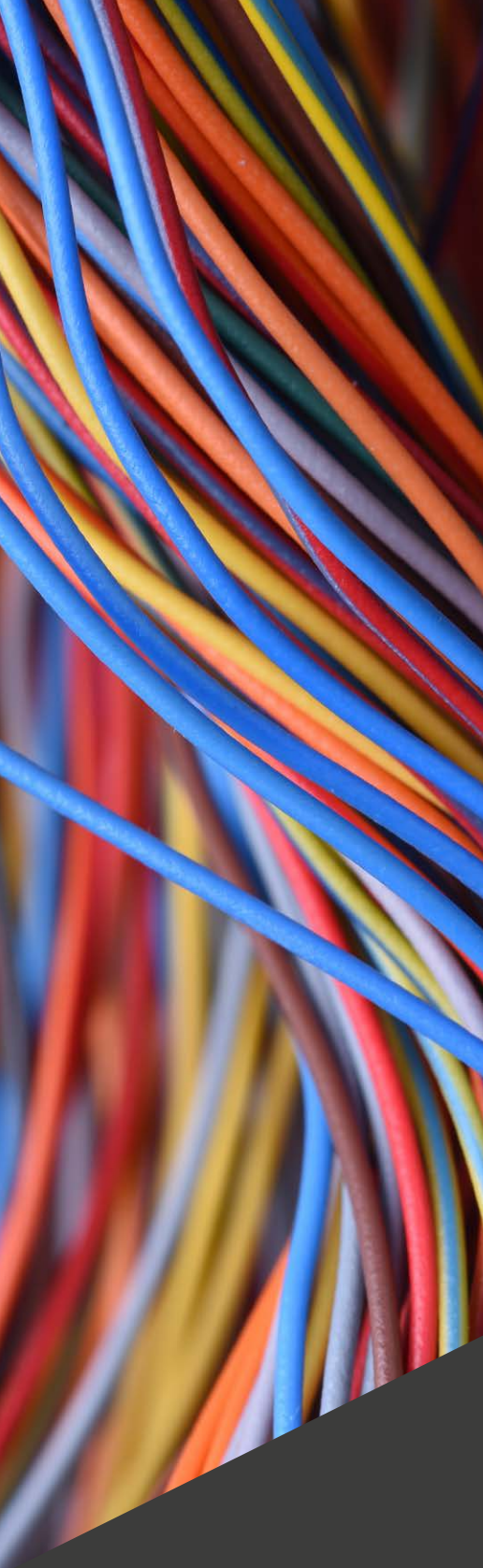
CAT6 Network

ISO/IEC 11801 Cat6 Compliant.



CAT6A Network

ISO/IEC 11801 Cat6A Compliant.



Syntax® Energy Cables

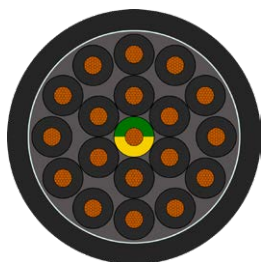
Power everything you need

Flexible and easy to handle. Multiple high-standard choices for a wide range of application fields.

Multicore Power Cable

19 G 2.5 mm² Ø 19,5 mm

Part Number 7ZF1925E



Overall features

Sheath: Matte Black PVC
flame-retardant, Ø 19,5 mm
Insulation Resistance:
200 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CEI_20-22/III,
EN_50266/2-4, IEC_60332/3-2

Technical data

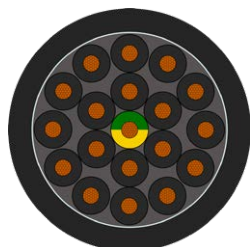
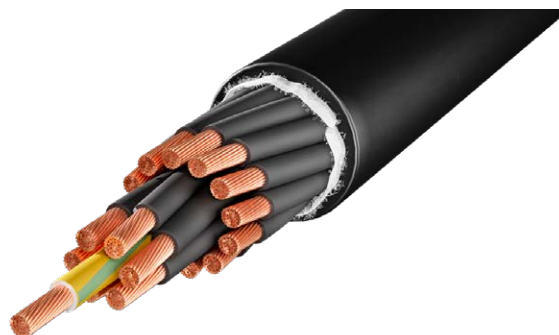
Conductor: Nr.19 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 2,85 mm Y/G(1x), Black
Numbered(18x) PVC
DCR Cond : IEC_60344
Standard: IEC_60228 - Class 5
Matching Plug: 19 pin SSX



Multicore Power Cable

19 G 1.5 mm² Ø 18 mm

Part Number 7ZF1915E



Overall features

Sheath: Matte Black PVC flame-
retardant, Ø 18,0 mm
Insulation Resistance:
200 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CEI_20-22/III,
EN_50266/2-4, IEC_60332/3-2

Technical data

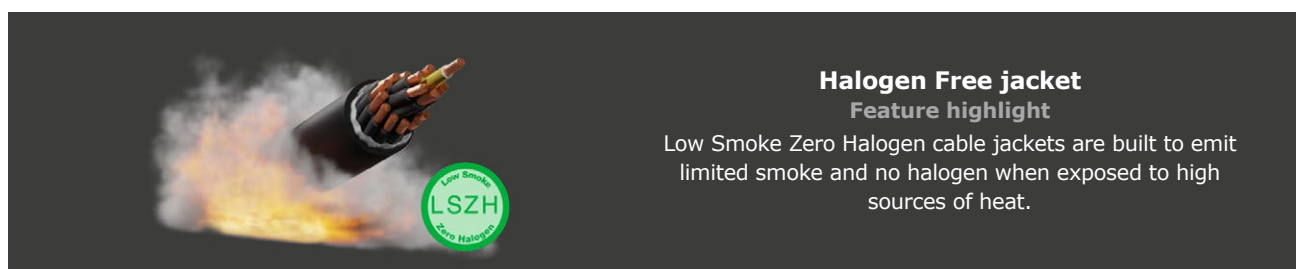
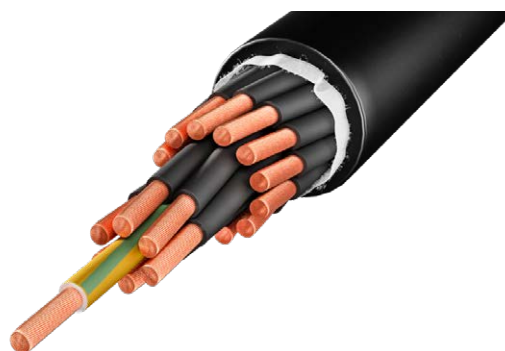
Conductor: Nr.19 x 1,5 mm² / 16 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 2,7 mm Y/G(1x), Black
Numbered(18x) PVC
DCR Cond : IEC_60344
Standard: IEC_60228 - Class 5
Matching Plug: 19 pin SSX



Multicore Power Cable | PUR

19 G 2.5 mm² | Ø 18,5 mm

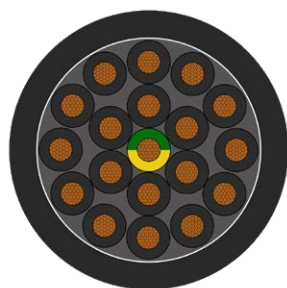
Part Number 7ZF1925PUR



Halogen Free jacket

Feature highlight

Low Smoke Zero Halogen cable jackets are built to emit limited smoke and no halogen when exposed to high sources of heat.



Overall features

Sheath: Matte Black PUR,
Ø 18,5 mm
Insulation Resistance:
500 MΩ x Km
Operating Temp: -40°C +80°C
Compliance: CEI_20-22/III,
EN_50266/2-4, IEC_60332/3-
2, LV 2014/35/eu



Technical data

Conductor: Nr.19 x 2,5 mm² / 14 AWG (Class 6 - Stranded Cable) Copper

Insulation Wires: Ø 3,0 mm Y/G(1x), Black
Numbered(18x) PVC

DCR Cond : IEC_60344

Standard: IEC_60228 - Class 5

Matching Plug: 19 pin SSX

Concentric Contra-Helical Lays

Feature highlight

Each layer of wires has a reversed lay direction and an increasing lay length in each succeeding layer, improving flexibility, strength, concentricity and reducing cross-talk.



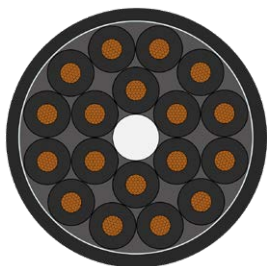
Available for these cables

Conductors	Part No.
19 G 2,5 mm ²	7ZF1925E
19 G 1,5 mm ²	7ZF1915E
18 G 2.5 mm ²	7ZF1825E
18 G 1.5 mm ²	7ZF1815E

Multicore Power Cable

18 G 2.5 mm² Ø 19,5 mm

Part Number 7ZF1825E



Overall features

Sheath: Matte Black PVC flame-retardant, Ø 19,5 mm
 Insulation Resistance: 200 MΩ x Km
 Operating Temp: -30°C +70°C
 Compliance: CEI_20-22/III, EN_50266/2-4, IEC_60332/3-2

Technical data

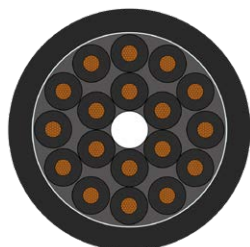
Conductor: Nr.18 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 3,0 mm Black Numbered PVC
DCR Cond : IEC_60344
Standard: IEC_60228 - Class 5
Matching Plug: 19 pin SSX



Multicore Power Cable

18 G 1.5 mm² Ø 18 mm

Part Number 7ZF1815E



Overall features

Sheath: Matte Black PVC flame-retardant, Ø 18 mm
 Insulation Resistance: 200 MΩ x Km
 Operating Temp: -30°C +70°C
 Compliance: CEI_20-22/III, EN_50266/2-4, IEC_60332/3-2

Technical data

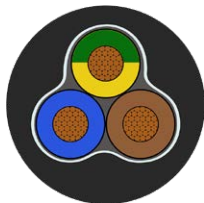
Conductor: Nr.18 x 1,5 mm² / 16 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 2,7 mm Y/G(1x), Black Numbered(18x) PVC
DCR Cond : IEC_60344
Standard: IEC_60228 - Class 5
Matching Plug: 19 pin SSX



Mains Power Cable

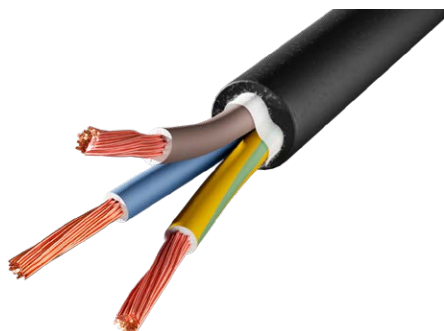
3 G 2.5 mm² | Ø 11,3 mm

Part Number 7ZF0325



Overall features

Sheath: Matte Black PVC
flame-retardant, Ø 11,3 mm
Insulation Resistance:
200 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CEI_20-22/III,
EN_50266/2-4, IEC_60332/3-2



Technical data

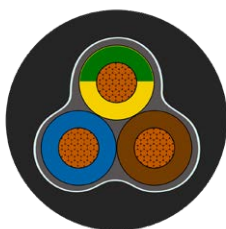
Conductor: Nr.3 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 3,57 mm Y/G, Blue, Brown PVC
DCR Cond : IEC_60344
Standard: IEC_60228 - Class 5



Mains Power Cable

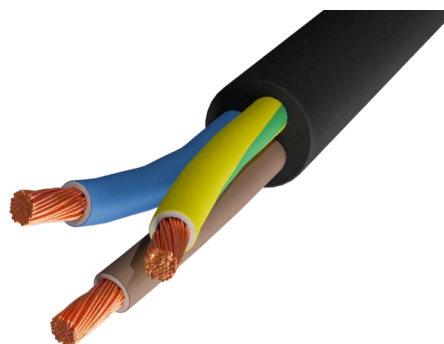
3 G 6 mm² | Ø 14 mm

Part Number 7ZF0360



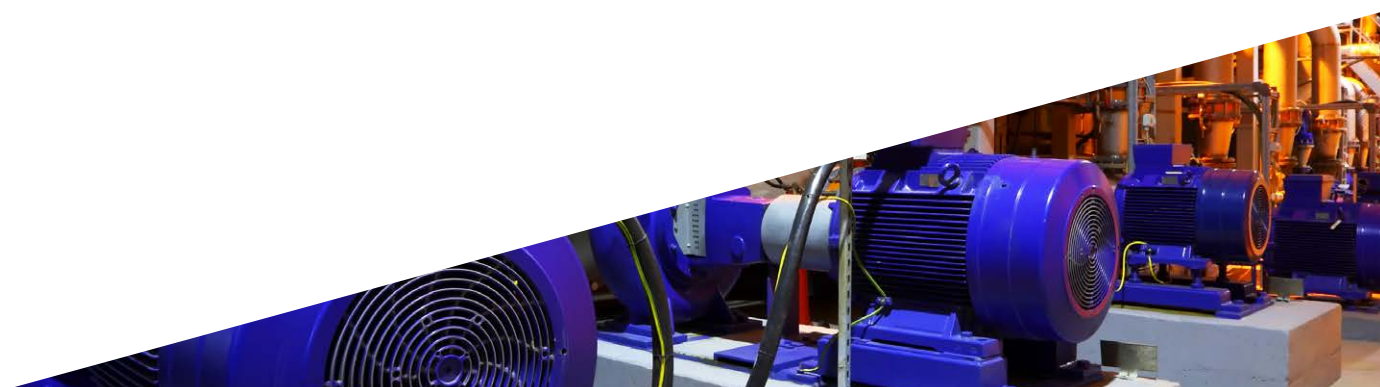
Overall features

Sheath: Matte Black PVC
flame-retardant, Ø 14,0 mm
Insulation Resistance:
200 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CEI_20-22/III,
EN_50266/2-4, IEC_60332/3-2



Technical data

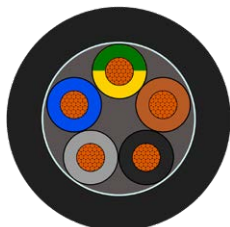
Conductor: Nr.3 x 6,0 mm² / 10 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 4,8 mm Y/G, Blue, Brown PVC
DCR Cond : IEC_60344
Standard: IEC_60228 - Class 5



Mains Power Cable

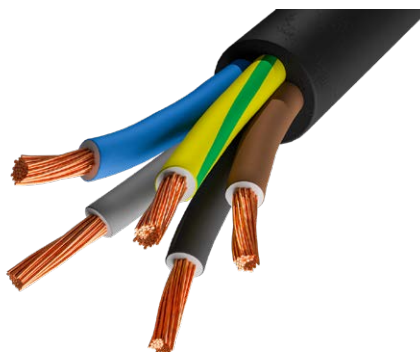
5 G 2.5 mm² | Ø 12,5 mm

Part Number 7ZF0525



Overall features

Sheath: Matte Black PVC
flame-retardant, Ø 12,5 mm
Insulation Resistance:
200 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CEI_20-22/III,
EN_50266/2-4, IEC_60332/3-2



Technical data

Conductor: Nr.5 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper

Insulation Wires: Ø 3,57 mm Y/G, Blue, Brown, Black, Gray PVC

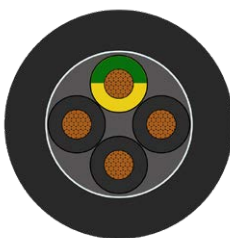
DCR Cond : IEC_60344

Standard: IEC_60228 - Class 5

Mains Power Cable

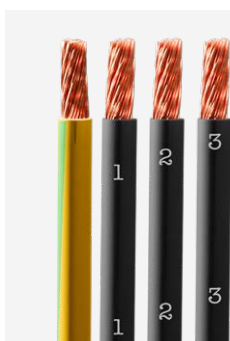
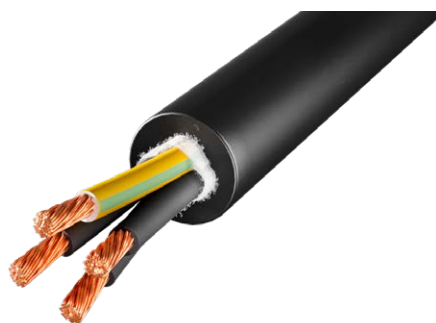
4 G 2.5 mm² | Ø 12,2 mm

Part Number 7ZF0425M



Overall features

Sheath: Matte Black PVC
flame-retardant, Ø 12,2 mm
Insulation Resistance:
200 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CEI_20-22/III,
EN_50266/2-4, IEC_60332/3-2



Technical data

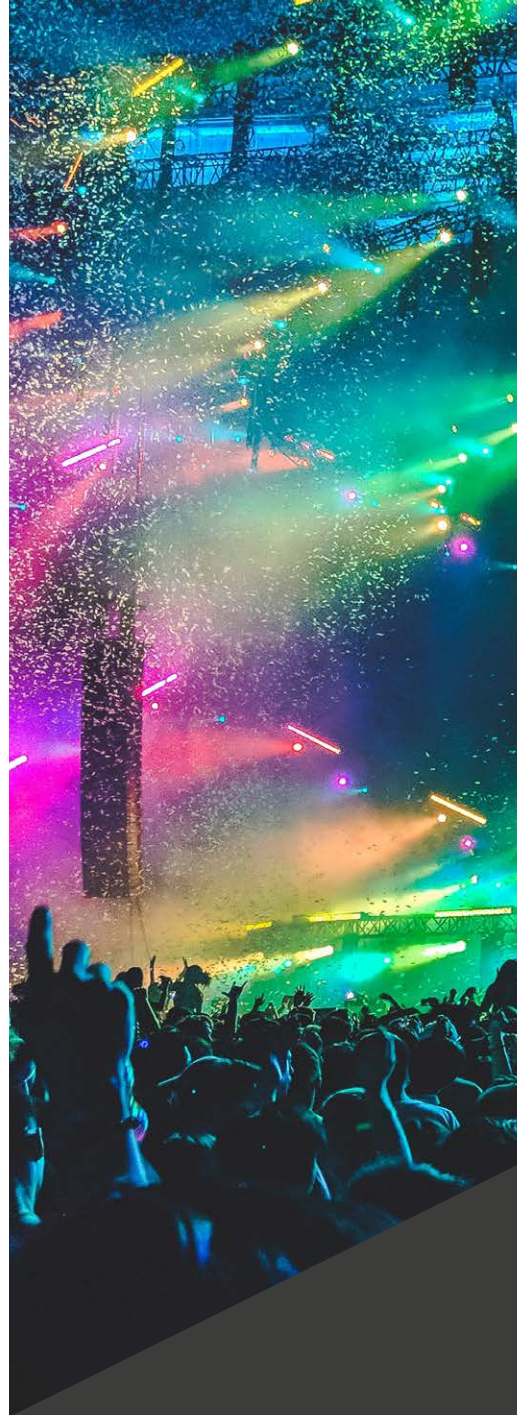
Conductor: Nr.4 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper

Insulation Wires: Ø 3,57 mm Y/G, Black Numbered PVC

DCR Cond : IEC_60344

Standard: IEC_60228 - Class 5





Syntax® Speaker Cables

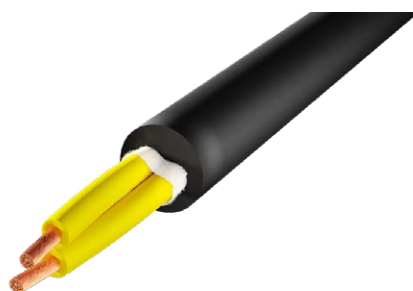
Hearing clear and loud

Clarity and balance of sound, high conductivity and brilliance to cover the full dynamic range of sound.

Syntax[®] Speaker Cable

Power line | 2 x 2,5 mm² | Ø 8,8 mm

Part Number 7Z2ESX25



Overall features

Sheath: Black PVC, Ø 8,8 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS, < 50 Vac (ELV)

Technical data

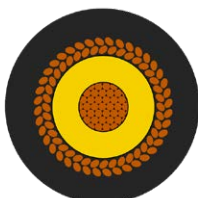
Conductor: Nr.2 x 2,5 mm² / 13 AWG (140 x 0,16 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 3,1 mm Yellow PVC
DCR Cond: 8 Ω/Km
Capacitance C/C: N.D.
Standard: IEC 60228 - Class 6
Matching Plug: speakON[®]



Syntax[®] Speaker Cable

Coaxial Power line | 2 x 4 mm² | Ø 8 mm

Part Number 7Z2SX40CX



Overall features

Sheath: Black Super Flex PVC
flame retardant, Ø 8,0 mm
Insulation Resistance: 150 MΩ x Km
Operating Temp: -25°C +70°C
Compliance: CE, LV 2014/35/eu
– ROHS 2015/863/eu, IEC60332

Technical data

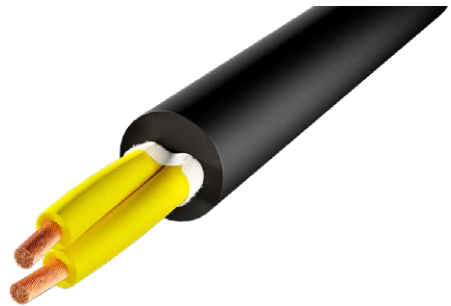
Conductor: 2
Inner Conductor: Stranded bare copper 126 x 0,20 mm,
4,0 mm²
Inner Wire Insulation: Ø 4,2 mm, yellow PVC
Coaxial Conductor: Bare copper counter rotating spiral,
4,0 mm²
DCR Cond: 4,95 Ω/Km



Syntax® Speaker Cable

Power line | 2 x 4,0 mm² | Ø 11,4 mm

Part Number 7Z2ESX40



Overall features

Sheath: Black PVC, Ø 11,4 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS,
< 50 Vac (ELV)

Technical data

Conductor: Nr.2 x 4,0 mm² / 11 AWG (224 x 0,16 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 4,3 Yellow PVC
DCR Cond: 5 Ω/Km
Capacitance C/C: N.D.
Standard: IEC 60228 - Class 6
Matching Plug: speakON®



Syntax® Speaker Cable

Power line | 4 x 2,5 mm² | Ø 10,5 mm

Part Number 7Z4ESX25



Overall features

Sheath: Black PVC, Ø 10,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS,
< 50 Vac (ELV)

Technical data

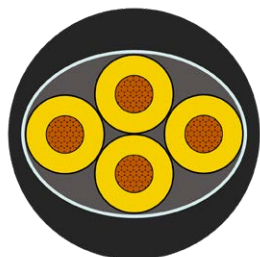
Conductor: Nr.4 x 2,5 mm² / 13 AWG (140 x 0,16 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 3,1 mm Yellow PVC
DCR Cond: 8 Ω/Km
Capacitance C/C: N.D.
Standard: IEC 60228 - Class 6
Matching Plug: Syntax SPK 4-pin, speakON®



Syntax[®] Speaker Cable

Power line | 4 x 4 mm² | ø 13,5 mm

Part Number 7Z4ESX40



Overall features

Sheath: Black PVC, ø 13,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS,
< 50 Vac (ELV)

Technical data

Conductor: Nr.4 x 4,0 mm² / 11 AWG (224 x 0,16 mm)
Oxygen free Copper (OFC)
Insulation Wires: ø 4,3 mm Yellow PVC
DCR Cond: 5 Ω/Km
Capacitance C/C: N.D.
Standard: IEC 60228 - Class 6
Matching Plug: Syntax SPK 4-pin, speakON[®]



Syntax[®] Speaker Cable

Power line | 8 x 2,5 mm² | ø 14,0 mm

Part Number 7Z8ESX25



Overall features

Sheath: Black PVC, ø 14 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS, < 50
Vac (ELV)

Technical data

Conductor: Nr.8 x 2,5 mm² / 13 AWG (140 x 0,16 mm)
Oxygen free Copper (OFC)
Insulation Wires: ø 3,1 mm Yellow PVC
DCR Cond: 8 Ω/Km
Capacitance C/C: N.D.
Standard: IEC 60228 - Class 6
Matching Plug: Syntax SPK 8-pin, speakON[®]



Syntax® Speaker Cable

Power line | 8 x 4,0 mm² | Ø 20,0 mm

Part Number 7Z8ESX40



Overall features

Sheath: Black PVC, Ø 20 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS,
< 50 Vac (ELV)

Technical data

Conductor: Nr.8 x 4,0 mm² / 11 AWG (224 x 0,16 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 4,3 Yellow PVC
DCR Cond: 5 Ω/Km
Capacitance C/C: N.D.
Standard: IEC 60228 - Class 6
Matching Plug: Syntax SPK 8-pin, speakON®



Concentric Contra-Helical Lays

Feature highlight

Each layer of wires has a reversed lay direction and an increasing lay length in each succeeding layer, improving flexibility, strength, concentricity and reducing cross-talk.



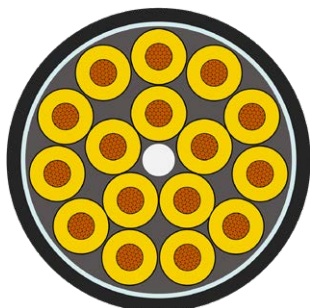
Available for these cables

Conductors	Part No.
16 x 4,0 mm ²	7Z16ESX40
24 x 4,0 mm ²	7Z24ESX40KPUR

Syntax[®] Speaker Cable

Power line | 16 x 4,0 mm² | Ø 23,0 mm

Part Number 7Z16ESX40



Overall features

Sheath: Black PVC, Ø 23 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS,
< 50 Vac (ELV)



Technical data

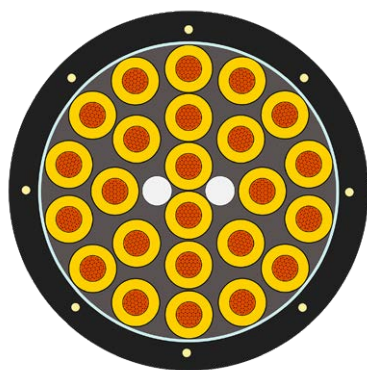
Conductor: Nr.16 x 4 mm² / 11 AWG (224 x 0,16 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 4,3 mm Yellow PVC
DCR Cond: 5 Ω/Km
Capacitance C/C: N.D.
Standard: IEC 60228 - Class 6
Matching Plug: Syntax SSX



Syntax[®] Speaker Cable

Power line | 24 x 4,0 mm² | Ø 27,5 mm

Part Number 7Z24ESX40KPUR



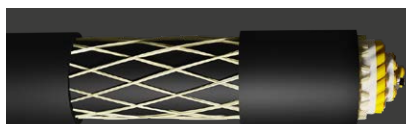
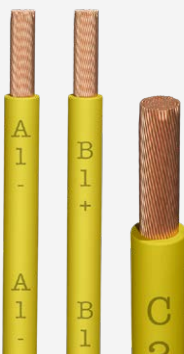
Overall features

Sheath: Black PUR compound, Ø 27,5 mm
Insulation Resistance: 150 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS, < 50 Vac (ELV)



Technical data

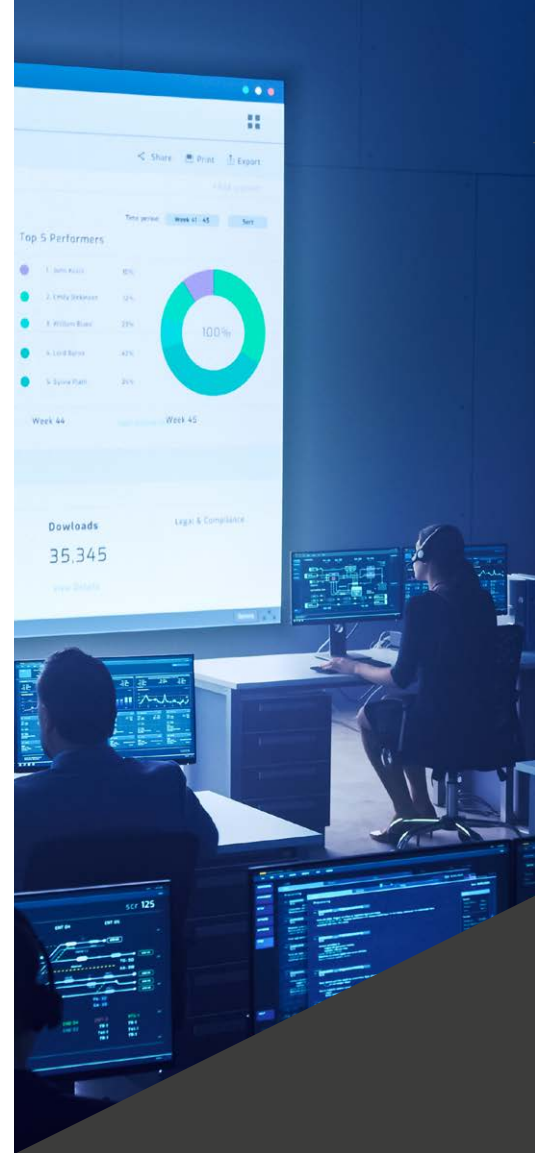
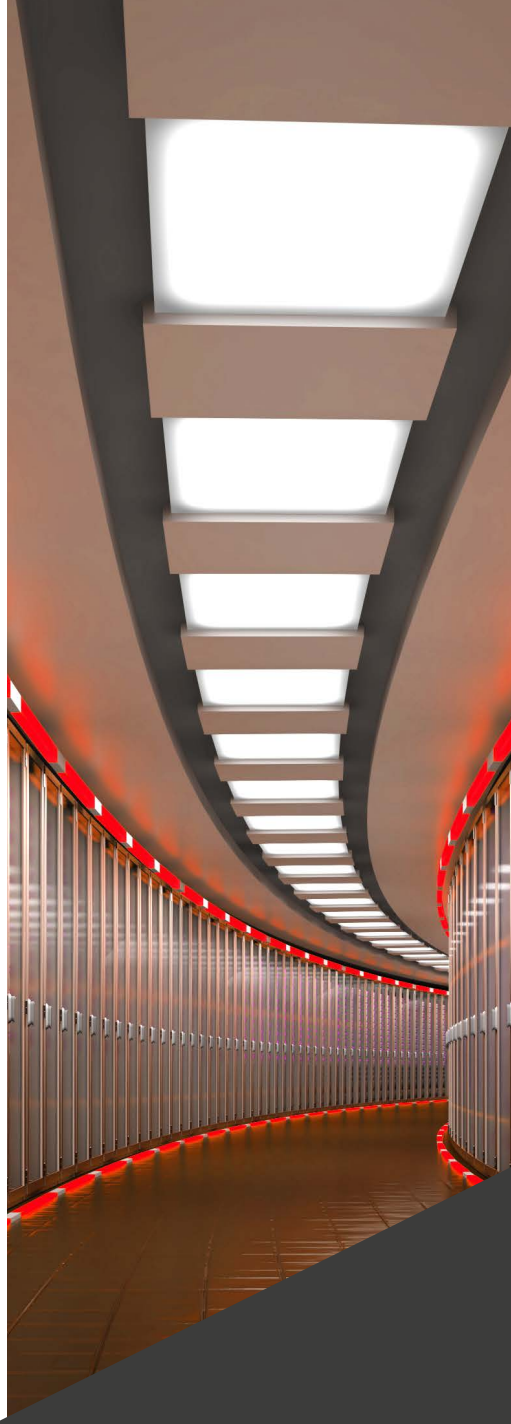
Conductor: Nr.24 x 4 mm² / 11 AWG (126 x 0,20 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 3,7 mm Yellow PVC
DCR Cond: 5 Ω/Km
Standard: LV 2014/35/eu, ROHS 2015/863/eu
Matching Plug: Syntax SPK 25-pin



Improved tensile strength

Feature highlight

A kevlar fiber braid is embedded into the external sheath during the extrusion process, in order to provide the cable a better resistance to tensile stresses.



Syntax® Hybrid Cables

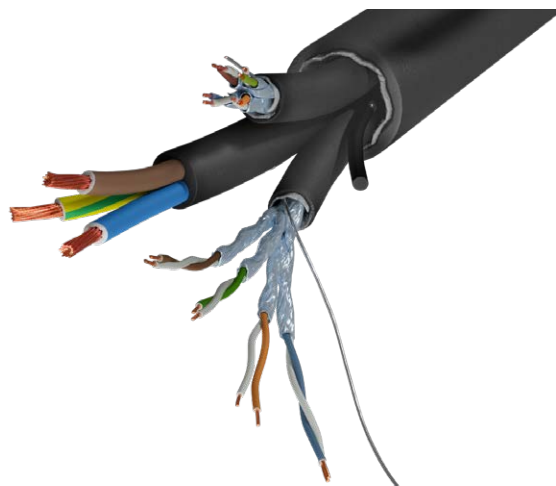
One for all, all in one!

With just one cable you can carry multiple combinations of signals and power. Versatile, the best choice for cable management solutions.

Syntax[®] Hybrid Cable

2 x CAT6A + 3 G 2.5 mm² | Ø 21 mm

Part Number 7YLN2CAT6APW325G



Overall features

Sheath: Black PVC,
Ø 21,0 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data - Network

Core: 2

Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper

Drain Wire: - (1 x 0,40 mm) Tinned Oxygen free Copper

Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE

Sheath: Ø 8,0 mm Matte Black PVC

Shield: Alu-Polyester Foil ,100% Coverage

DC Loop R Cond : 145 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z₀): 100 Ω

NPV: 76%

Standard: ISO/IEC 11801

Matching Plug: RJ45(cat6)



Technical data - Energy

Conductor: Nr.3 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper

Insulation Wires: Ø 3,57 mm Y/G, Blue, Brown PVC

Sheath: Ø 11,3 mm Matte Black PVC

DC Loop R Cond : IEC_60344

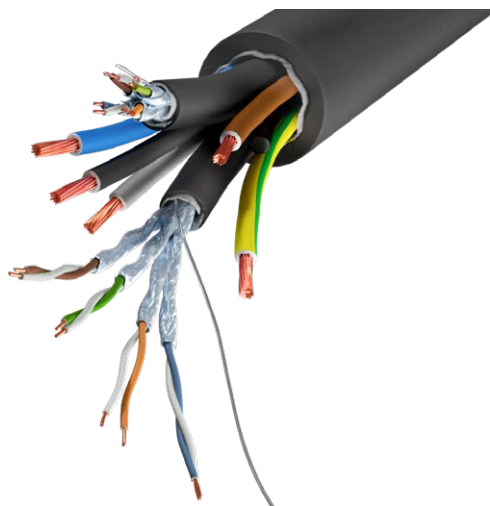
Standard: IEC_60228 - Class 5



Syntax® Hybrid Cable

2 x CAT6A + 5 G 2.5 mm² | Ø 20 mm

Part Number 7YLN2CAT6APW525



Overall features

Sheath: Black PVC,
Ø 20,0 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data - Network



Core: 2
Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper
Drain Wire: - (1 x 0,40 mm) Tinned Oxygen free Copper
Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE
Sheath: Ø 8,0 mm Matte Black PVC
Shield: Alu-Polyester Foil ,100% Coverage
DC Loop R Cond : 145 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 45 nF/Km
Impedance (Z0): 100 Ω
NPV: 76%
Standard: ISO/IEC 11801
Matching Plug: RJ45(cat6)

Technical data - Energy



Conductor: Nr.5 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 3,57 mm Y/G, Blue, Brown, Black, Gray PVC
DCR Cond : IEC_60344
Standard: IEC_60228 - Class 5
Matching Plug:



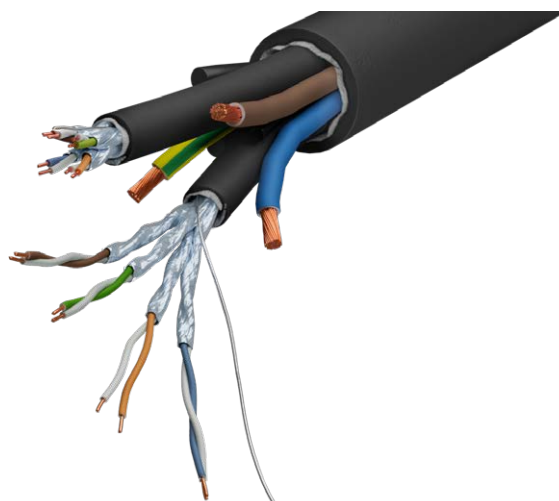
Syntax SGH 8.1 Compatible

This cable has been specifically designed to be used in combination with the Syntax Gigamod Hybrid 8.1 connectors fitted with the 16 amp 3p+N+E central insert.

Syntax[®] Hybrid Cable

2 x CAT6A + 3 G 6 mm² | Ø 20 mm

Part Number 7YLN2CAT6APW360



Overall features

Sheath: Black PVC,
Ø 20,0 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHSS



Technical data - Network

Core: 2

Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper

Drain Wire: - (1 x 0,40 mm) Tinned Oxygen free Copper

Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE

Sheath: Ø 8,0 mm Matte Black PVC

Shield: Alu-Polyester Foil ,100% Coverage

DC Loop R Cond : 145 Ω/Km

DCR Shield: N.D.

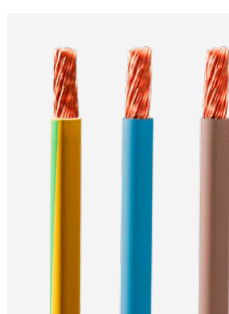
Capacitance C/C: 45 nF/Km

Impedance (Z0): 100 Ω

NPV: 76%

Standard: ISO/IEC 11801

Matching Plug: RJ45(cat6)



Technical data - Energy

Conductor: Nr.3 x 6,0 mm² / 10 AWG (Class 5 - Stranded Cable) Copper

Insulation Wires: Ø 4,8 mm Y/G, Blue, Brown PVC

Sheath: Free

DC Loop R Cond : IEC_60344

Standard: IEC_60228 - Class 5

Syntax SGH 8.1 Compatible

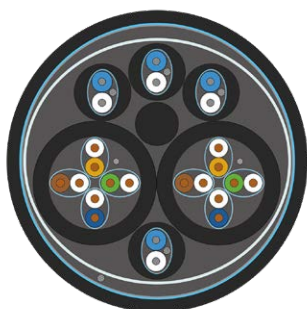
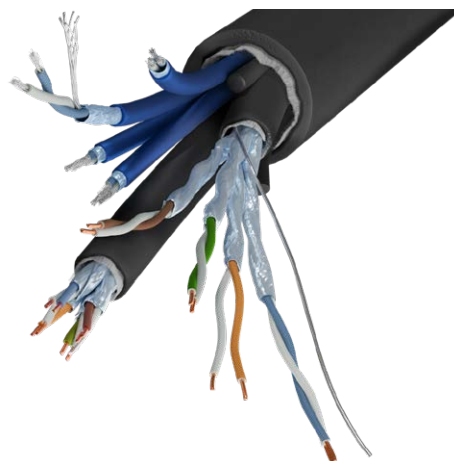
This cable has been specifically designed to be used in combination with the Syntax Gigamod Hybrid 8.1 connectors fitted with the 16 amp 2p+E central insert.



Syntax® Hybrid Cable

2 x CAT6A + 4 digital | Ø 20 mm

Part Number 7YLN2CAT6ADG4



Overall features

Sheath: Black PVC,
Ø 20,0 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data - Network

Core: 2
Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper
Drain Wire: - (1 x 0,40 mm) Tinned Oxygen free Copper
Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE
Sheath: Ø 8,0 mm Matte Black PVC
Shield: Alu-Polyester Foil ,100% Coverage
DC Loop R Cond : 145 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 45 nF/Km
Impedance (Z0): 100 Ω
NPV: 76%
Standard: ISO/IEC 11801
Matching Plug: RJ45(cat6)



Technical data - Digital

Pairs: 4
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm) Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,8 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU,DMX 512
Matching Plug: XLR, TRS Jack



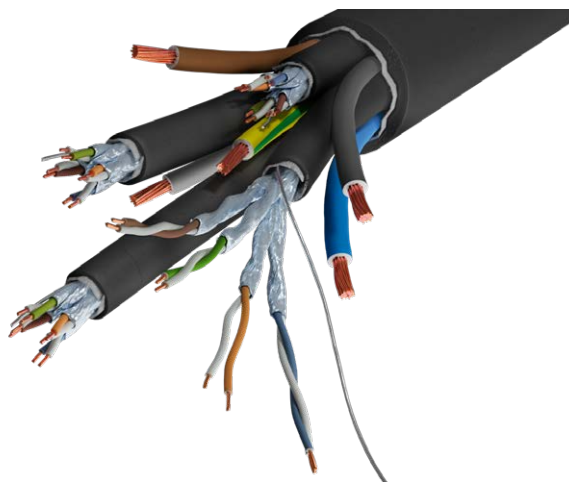
Syntax SGH 8.1 Compatible

This cable has been designed, but not limited to, to be a perfect companion for the Syntax Gigamod Hybrid 8.1 connectors fitted with the Signal central insert.

Syntax® Hybrid Cable

4 x CAT6A + 5 G 2.5 mm² | Ø 23,5 mm

Part Number 7YLN4CAT6APW525



Overall features

Sheath: Black PVC,
Ø 23,5 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data - Network

Core: 4

Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper

Drain Wire: - (1 x 0,40 mm) Tinned Oxygen free Copper

Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE

Sheath: Ø 8,0 mm Matte Black PVC

Shield: Alu-Polyester Foil ,100% Coverage

DC Loop R Cond : 145 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z0): 100 Ω

NPV: 76%

Standard: ISO/IEC 11801

Matching Plug: RJ45(cat6)



Technical data - Energy

Conductor: Nr.5 x 2,5 mm² / 14 AWG (Class 5 - Stranded Cable) Copper

Insulation Wires: Ø 3,57 mm Y/G, Blue, Brown, Black, Gray PVC

Sheath: Free

DC Loop R Cond : IEC_60344

Standard: IEC_60228 - Class 5

Syntax SGH 16.1 Compatible

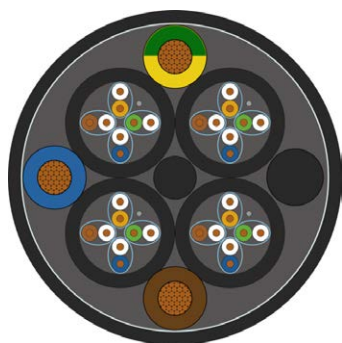
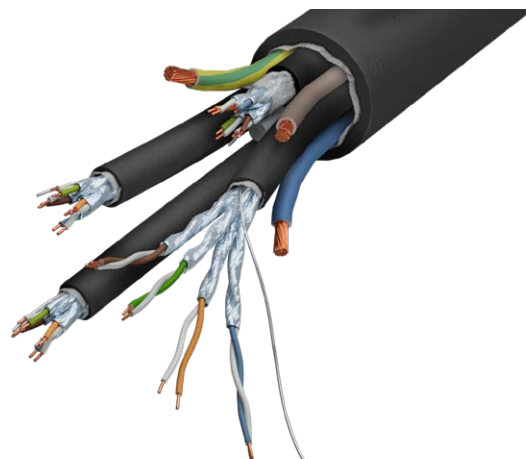
This cable has been specifically designed to be used in combination with the Syntax Gigamod Hybrid 16.1 connectors fitted with the 16 amp 3p+N+E central insert.



Syntax® Hybrid Cable

4 x CAT6A + 3 G 6 mm² | Ø 25 mm

Part Number 7YLN4CAT6APW360



Overall features

Sheath: Black PVC,
Ø 25,0 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data - Network

Core: 4
Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper
Drain Wire: - (1 x 0,40 mm) Tinned Oxygen free Copper
Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE
Sheath: Ø 8,0 mm Matte Black PVC
Shield: Alu-Polyester Foil ,100% Coverage
DC Loop R Cond : 145 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 45 nF/Km
Impedance (Z0): 100 Ω
NPV: 76%
Standard: ISO/IEC 11801
Matching Plug: RJ45(cat6)



Technical data - Energy

Conductor: Nr.3 x 6,0 mm² / 10 AWG (Class 5 - Stranded Cable) Copper
Insulation Wires: Ø 4,8 mm Y/G, Blue, Brown PVC
Sheath: Free
DC Loop R Cond : IEC_60344
Standard: IEC_60228 - Class 5



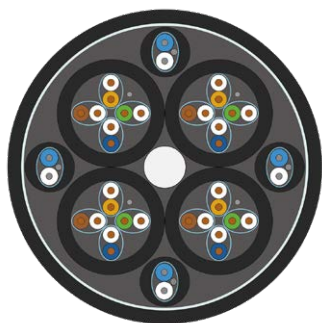
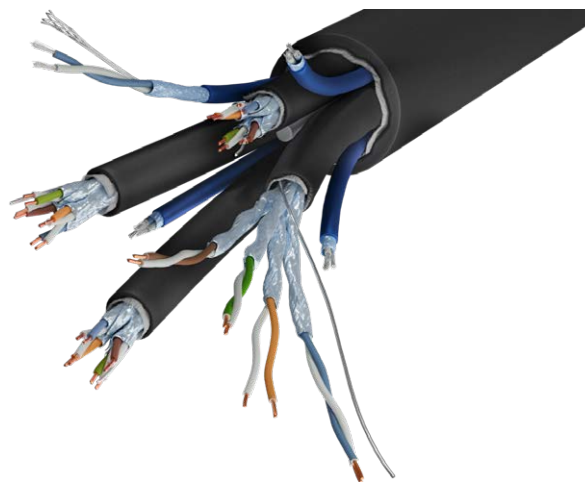
Syntax SGH 16.1 Compatible

This cable has been specifically designed to be used in combination with the Syntax Gigamod Hybrid 16.1 connectors fitted with the 16 amp 2p+E central insert.

Syntax[®] Hybrid Cable

4 x CAT6A + 4 digital | Ø 24 mm

Part Number 7YLN4CAT6ADG4



Overall features

Sheath: Black PVC,
Ø 24,0 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data - Network

Core: 4

Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper

Drain Wire: - (1 x 0,40 mm) Tinned Oxygen free Copper

Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE

Sheath: Ø 8,0 mm Matte Black PVC

Shield: Alu-Polyester Foil ,100% Coverage

DC Loop R Cond : 145 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z₀): 100 Ω

NPV: 76%

Standard: ISO/IEC 11801

Matching Plug: RJ45(cat6)



Technical data - Digital

Pairs: 4

Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm) Tinned Oxygen free Copper (OFC)

Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned Oxygen free Copper (OFC)

Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE

Sheath: Ø 3,8 mm Blue PVC

Shield: Alu-Mylar Foil ,100% Coverage

DCR Cond : 86 Ω/Km

DCR Shield: 70 Ω/Km

Capacitance C/C: 37 nF/Km

Capacitance C/S: 57 nF/Km

Impedance (Z₀): 110 Ω

Standard: AES/EBU, DMX 512

Matching Plug: XLR, TRS Jack

Syntax SGH 16.1 Compatible

This cable has been designed, but not limited to, to be a perfect companion for the Syntax Gigamod Hybrid 16.1 connectors fitted with the Signal central insert.



Syntax® Hybrid Cable

Power + Digital | Ø 10 mm

Part Number 7XD1F315RESX



Overall features

Sheath: Black PVC,
Ø 10,0 mm

Insulation Resistance:
5 MΩ x Km

Operating Temp: -30°C +70°C

Compliance: CE, RoHS

Technical data - Digital

Pairs: 1

Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)

Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE

Sheath: Ø 3,8 mm Blue PVC

Shield: Alu-Mylar Foil ,100% Coverage

DCR Cond : 86 Ω/Km

DCR Shield: 70 Ω/Km

Capacitance C/C: 37 nF/Km

Capacitance C/S: 57 nF/Km

Impedance (Z0): 110 Ω

Standard: AES/EBU,DMX 512

Matching Plug: XLR, TRS Jack



Technical data - Energy

Core: 1

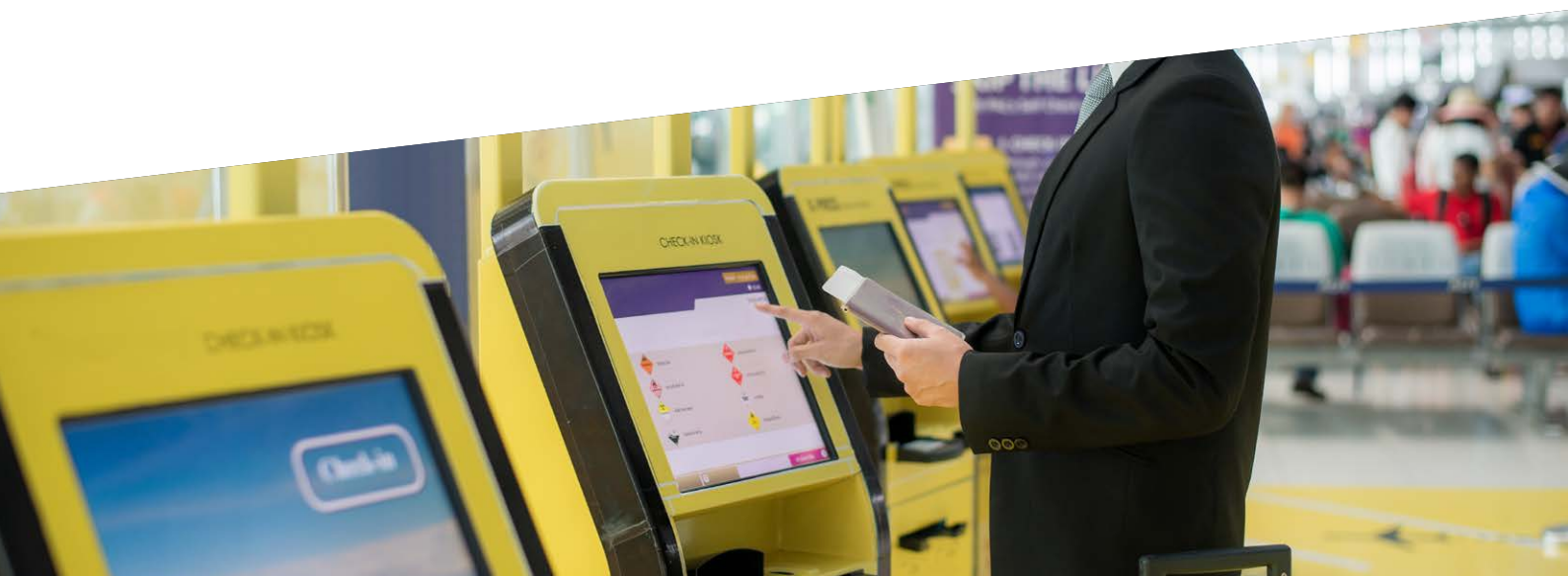
Conductor: Nr.3 x 1,5 mm² / 16 AWG (Class 5 - Stranded
Cable) Copper

Insulation Wires: Ø 2,5 mm Y/G, Blue, Brown PVC

Sheath: Free

DC Loop R Cond : IEC_60344

Standard: IEC_60228 - Class 5



Syntax[®] Hybrid Cable

Power + Digital | Ø 14 mm

Part Number 7XD1F315ESX



Overall features

Sheath: Black PVC,
Ø 14,5 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data - Digital

Pairs: 1

Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)

Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE

Sheath: Ø 3,8 mm Blue PVC

Shield: Alu-Mylar Foil ,100% Coverage

DCR Cond : 86 Ω/Km

DCR Shield: 70 Ω/Km

Capacitance C/C: 37 nF/Km

Capacitance C/S: 57 nF/Km

Impedance (Z0): 110 Ω

Standard: AES/EBU, DMX 512

Matching Plug: XLR, TRS Jack



Technical data - Energy

Core: 1

Conductor: Nr.3 x 1,5 mm² / 16 AWG (Class 5 - Stranded
Cable) Copper

Insulation Wires: Ø 2,5 mm Y/G, Blue, Brown PVC

Sheath: Ø 6,8 mm Black PVC

DC Loop R Cond : IEC_60344

Standard: IEC_60228 - Class 5



Syntax® Hybrid Cable

Power + Digital | Ø 14,5 mm

Part Number 7XD2F315ESX



Overall features

Sheath: Black PVC,
Ø 14,5 mm

Insulation Resistance:
5 MΩ x Km

Operating Temp: -30°C +70°C

Compliance: CE, RoHS

Technical data - Digital

Pairs: 2

Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)

Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE

Sheath: Ø 3,8 mm Blue PVC

Shield: Alu-Mylar Foil ,100% Coverage

DCR Cond : 86 Ω/Km

DCR Shield: 70 Ω/Km

Capacitance C/C: 37 nF/Km

Capacitance C/S: 57 nF/Km

Impedance (Z0): 110 Ω

Standard: AES/EBU, DMX 512

Matching Plug: XLR, TRS Jack



Technical data - Energy

Core: 1

Conductor: Nr.3 x 1,5 mm² / 16 AWG (Class 5 - Stranded
Cable) Copper

Insulation Wires: Ø 2,5 mm Y/G, Blue, Brown PVC

Sheath: Ø 6,8 mm Black PVC

DC Loop R Cond : IEC_60344

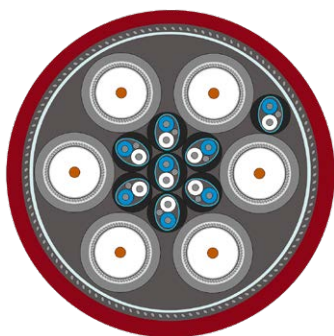
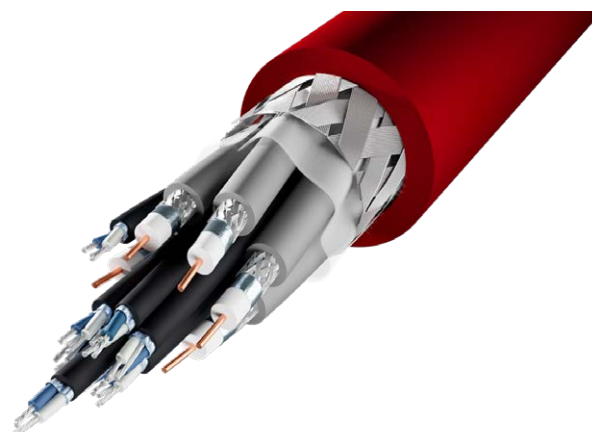
Standard: IEC_60228 - Class 5



Syntax[®] Hybrid Cable

6 x Video + 8 x Digital | Ø 24,5 mm

Part Number 7YVD6DG8HD



Overall features

Shield: Tinned Copper Braid
 Sheath: Matt Red PVC,
 Ø 24,5 mm
 Insulation Resistance:
 5 MΩ x Km
 Operating Temp: -30°C +70°C
 Compliance: CE, RoHS

Technical data - Video

Core: 6
Conductor: Nr.1 x 0,5 mm² / 20 AWG (1 x 0,81 mm)
 Oxygen free Copper (OFC)
Insulation Wires: Ø 3,75 mm White FPE
Sheath: Ø 6,2 mm Gray PVC
Shield: Alu-Polyester Foil ,100% Coverage + Tinned Copper
 Braid ,90% Coverage
DC Loop R Cond : 36 Ω/Km
DCR Shield: N.D.
Capacitance C/S: 53 nF/Km (± 5%)
Impedance (Z0): 75 Ω (± 3)
NPV: 84%
Standard: HD-SDI
Matching Plug: BNC



Technical data - Digital

Core: 8
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
 Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
 Oxygen free Copper (OFC)
Insulation Wires: Ø 1,20 mm Blue, White Gas-injected FPE
Sheath: Ø 3,0 mm Black PVC
Single: Alu-Mylar Foil ,100% Coverage
DC Loop R Cond :
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack



Overall screen Feature highlight

The overall tinned copper braided shield works as a first global defense barrier against electromagnetic disturbances.





Syntax® Network Cables

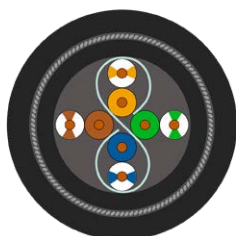
Your data is in good hands

A wide variety of quality Ethernet cables,
available in single core, 2-cores and
4-cores versions.

Network Cable | PUR

S-UTP CAT6 | 4 x Twisted Pairs | Ø 8,0 mm

Part Number 7XLANCAT6PUR



Overall features

Sheath: Black PVC, Ø 8,0 mm
Insulation Resistance:
5 GΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

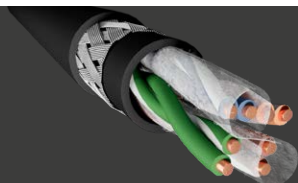
Core: 1
Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper
Insulation Wires: Ø 1,0 mm TIA/EIA 568 A-B FPE
Shield: Tinned Copper Braid ,80% Coverage
DCR Cond : 75 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 48 nF/Km
Impedance (Z0): 100 Ω
Standard: ISO/IEC 11801
Matching Plug: RJ45



Special spacer

Feature highlight

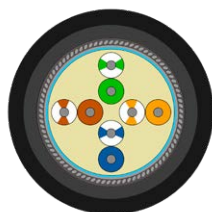
The particular fabric, wrapped with a figure of eight, allows you to keep the cables at the correct distance without compromising cross talking.



Network Cable | PUR

SF-UTP CAT5e | 4 x Twisted Pairs | Ø 7,7 mm

Part Number 7XLANCAT5PUR



Overall features

Sheath: Matte Black PVC,
Ø 6,4 mm + Black PUR
Compound, Ø 7,7 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

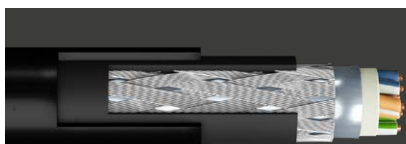
Core: 1
Conductor: Nr.4 x Twisted Pairs x 0,22 mm² / 24 AWG (1 x 0,51 mm) Oxygen free Copper
Insulation Wires: Ø 0,95 mm TIA/EIA 568 A-B FPE
Filler: Ø 4,7 mm Light Yellow Compound
Shield: Alu-Polyester Foil ,100% Coverage + Tinned Copper Braid ,80% Coverage
DCR Cond : 90 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 51 nF/Km
Impedance (Z0): 100 Ω
NPV: 68%
Standard: ISO/IEC 11801
Matching Plug: RJ45



Double jacket super strong

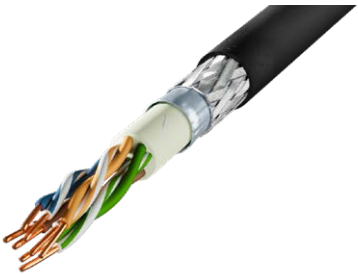
Feature highlight

This cable's double sheath serves two different purposes: to offer superior resistance, mainly thanks to the outer PUR jacket, and to ease the crimping process into the connector's contact with the inner and narrower sheath.



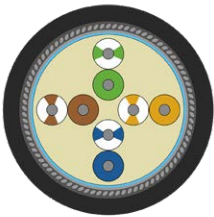
Network Cable

SF-UTP CAT5e | 4 x Twisted Pairs | ø 6,2 mm
Part Number 7XLANCAT5



Double shield
Feature highlight

The presence of two different shields, a inner aluminium foil layer and a outer tinned copper braid, guarantees a full protection from external noise even in difficult environments.



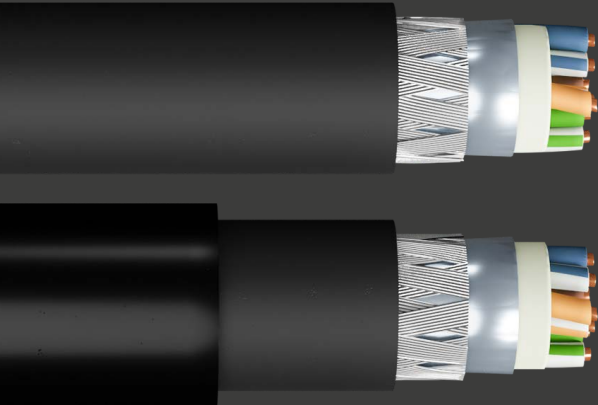
Overall features

Sheath: Black PVC, Ø 6,2 mm
Insulation Resistance:
8 GΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

Core: 1
Conductor: Nr.4 x Twisted Pairs x 0,22 mm² / 24 AWG (1 x 0,51 mm) Oxygen free Copper
Insulation Wires: Ø 0,95 mm TIA/EIA 568 A-B FPE
Filler: Ø 4,7 mm Light Yellow Compound
Shield: Alu-Polyester Foil ,100% Coverage + Tinned Copper Braid ,80% Coverage
DCR Cond : 90 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 51 nF/Km
Impedance (Z0): 100 Ω
NPV: 68%
Standard: ISO/IEC 11801
Matching Plug: RJ45



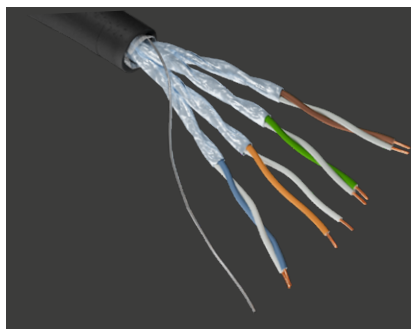
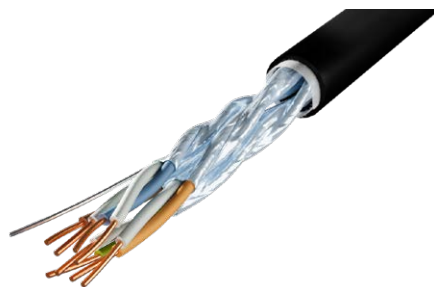
Available versions
Data cable

Specifics	Code	Diameter
Single PVC Sheath - CAT 5e	7XLANCAT5	6,2 mm
External PUR Sheath - Double Sheath - CAT 5e	7XLANCAT5PUR	7,7 mm

Network Cable | PUR

S-UTP CAT6A | 4 x Twisted Pairs | $\varnothing$ 8,2mm

Part Number 7XLANCAT6AUFPUR



FTP + DRAIN Feature highlight

The FTP (Foiled Twisted Pairs) structure of the cable allows optimal insulation between the conductors pairs, while the presence of the drain wire provides a safe and effective ground connection.



Overall features

Sheath: Black PVC, $\varnothing$ 8,2 mm
Insulation Resistance:
5 M Ω x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS, TM5,
EN 50363-4-1 (IRM 902)



Technical data

Core: 1

Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper

Drain Wire: 0,14 mm² / 26 AWG (1 x 0,40 mm) Tinned Oxygen free Copper (OFC)

Insulation Wires: $\varnothing$ 1,25 mm TIA/EIA 568 A-B Skin FPE

Shield: Alu-Polyester Foil ,100% Coverage

DC Loop R Cond : 145 Ω /Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z0): 100 Ω

NPV: 76%

Standard: ISO/IEC 11801

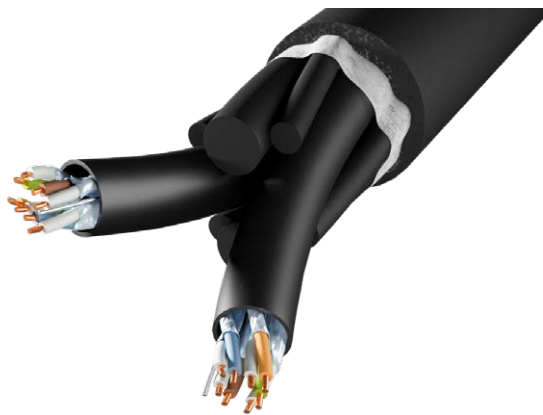
Matching Plug: RJ45(cat6)



Multicore Network Cable

2 x CAT6A | Ø 20 mm

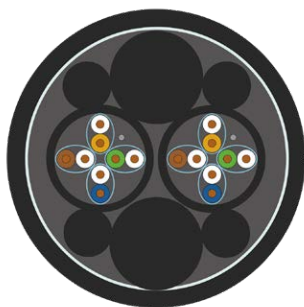
Part Number 7XLAN2CAT6AUF



FTP + DRAIN

Feature highlight

The FTP (Foiled Twisted Pairs) structure of the cable allows optimal insulation between the conductors pairs, while the presence of the the drain wire provides a safe and effective ground connection.



Overall features

Sheath: Black PVC, Ø 20 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

Core: 2

Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper

Drain Wire: 0,14 mm² / 26 AWG (1 x 0,40 mm) Tinned Oxygen free Copper (OFC)

Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE

Sheath: Ø 7,2 mm Numbered Black PVC

Shield: Alu-Polyester Foil ,100% Coverage

DC Loop R Cond : 145 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z0): 100 Ω

NPV: 76%

Standard: ISO/IEC 11801

Matching Plug: RJ45(cat6)



Multicore Network Cable

4 x CAT6A | Ø 23,5 mm

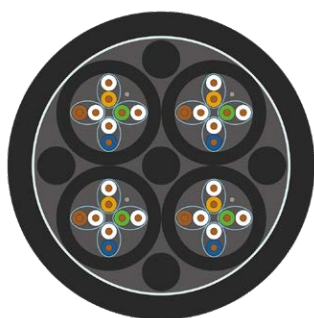
Part Number 7XLAN4CAT6AUF



High robustness and flexibility

Feature highlight

The large thickness of the outer sheath combined with low shore PVC compound, generate a very robust and extremely flexible and manageable cable.



Overall features

Sheath: Black PVC, Ø 24 mm
Insulation Resistance:
5 MΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

Core: 4

Conductor: Nr.4 x Twisted Pairs x 0,25 mm² / 23 AWG (1 x 0,57 mm) Oxygen free Copper

Drain Wire: 0,14 mm² / 26 AWG (1 x 0,40 mm) Tinned Oxygen free Copper (OFC)

Insulation Wires: Ø 1,25 mm TIA/EIA 568 A-B Skin FPE

Sheath: Ø 7,2 mm Numbered Black PVC

Shield: Alu-Polyester Foil ,100% Coverage

DC Loop R Cond : 145 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z0): 100 Ω

NPV: 76%

Standard: ISO/IEC 11801

Matching Plug: RJ45(cat6)





Syntax® Digital Cables

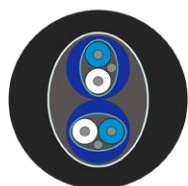
Let your bits travel safe!

Designed in accordance with the standard
AES/EBU specification on the management
of digital equipment.

Digital Cable

Multipair | 2 pair | Ø 9,6 mm

Part Number 7YDPR02ESX



Overall features

Sheath: Matte Black Super
Flex PVC flame retardant,
Ø 9,6 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

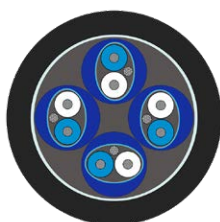
Pairs: 2
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,4 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack



Digital Cable

Multipair | 4 pair | Ø 11,2 mm

Part Number 7YDPR04ESX



Overall features

Sheath: Matte Black Super
Flex PVC flame retardant,
Ø 11,2 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

Pairs: 4
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,4 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack



Digital Cable - Celsius Extreme

Multipair | 4 pair | Ø 11,2 mm

Part Number 7YDPR04ESXC



Overall features

Sheath: Matte Black Super Flex
PVC flame retardant,
Ø 11,2 mm
Operating Temp: -40°C +105°C
Compliance: CE, RoHS



Technical data

Pairs: 4

Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)

Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE

Sheath: Ø 3,4 mm Blue PVC

Shield: Alu-Mylar Foil ,100% Coverage

DCR Cond : 86 Ω/Km

DCR Shield: 70 Ω/Km

Capacitance C/C: 37 nF/Km

Capacitance C/S: 57 nF/Km

Impedance (Z0): 110 Ω

Standard: AES/EBU,DMX 512

Matching Plug: XLR, TRS Jack



Celsius Extreme jacket option

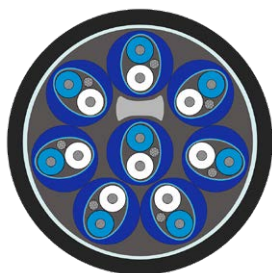
Available for selected digital multipair cables

The general outer jacket is made of a high-tech flame retardant PVC polymer, very flexible and impact absorbing, that slips over rough surfaces and ensures that the cable can be used even at extremely low or extremely high temperatures, with a wide operating temperature range width from **-40°C to +105°C**.

Digital Cable

Multipair | 8 pair | Ø 14,8 mm

Part Number 7YDPR08ESX



Overall features

Sheath: Matte Black Super
Flex PVC flame retardant,
Ø 14,8 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



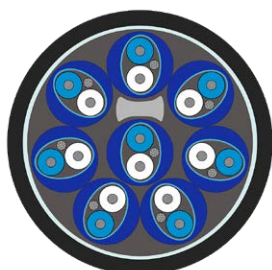
Technical data

Pairs: 8
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,4 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack

Digital Cable - Celsius Extreme

Multipair | 8 pair | Ø 14,8 mm

Part Number 7YDPR08ESXC



Overall features

Sheath: Matte Black Super Flex
PVC flame retardant,
Ø 14,8 mm
Operating Temp: -40°C +105°C
Compliance: CE, RoHS

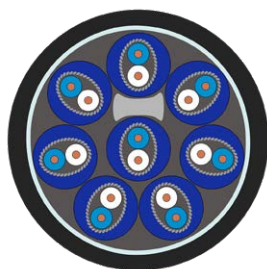
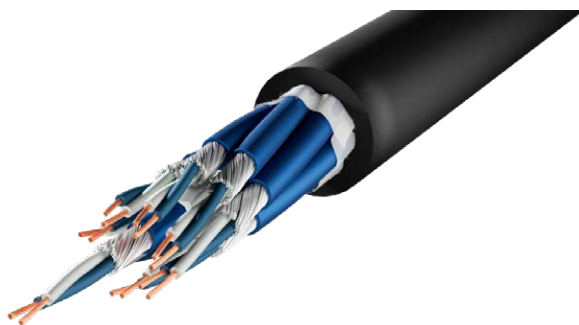


Technical data

Pairs: 8
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,4 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack

Digital Cable

Multipair | 8 pair | Ø 13 mm
Part Number 7YDPR08E14SX



Overall features

Sheath: Black PVC, Ø 13,0 mm
Operating Temp: -30°C +80°C
Compliance: CE, RoHS

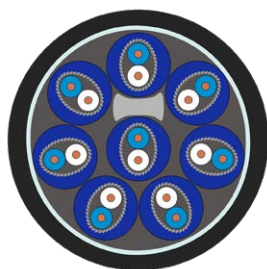


Technical data

Pairs: 8
Conductor: Nr.2 x 0,14mm² / 26 AWG (36 x 0,07 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,1 mm Blue, White Low density PE
Sheath: Ø 3,2 mm Light Blue PVC
Shield: Tinned Copper "French" Braid ,95% Coverage
DCR Cond : 140 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 45 nF/Km
Impedance (Z₀): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack

Digital Cable - Celsius Extreme

Multipair | 8 pair | Ø 13 mm
Part Number 7YDPR08E14SXC



Overall features

Sheath: Matte Black Super Flex
PVC flame retardant,
Ø 13,0 mm
Operating Temp: -40°C +105°C
Compliance: CE, RoHS



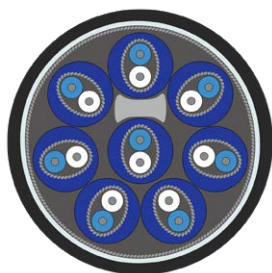
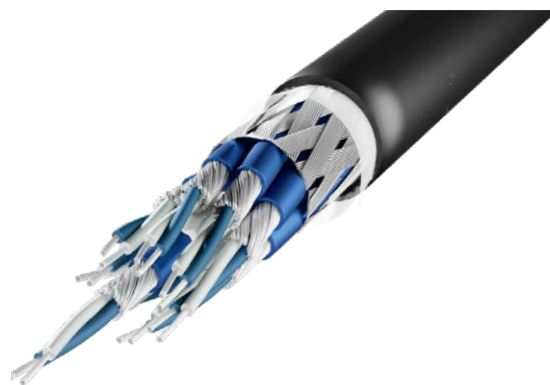
Technical data

Pairs: 8
Conductor: Nr.2 x 0,14mm² / 26 AWG (36 x 0,07 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,1 mm Blue, White Low density PE
Sheath: Ø 3,2 mm Light Blue PVC
Shield: Tinned Copper "French" Braid ,95% Coverage
DCR Cond : 140 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 45 nF/Km
Impedance (Z₀): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack

Digital Cable | PUR

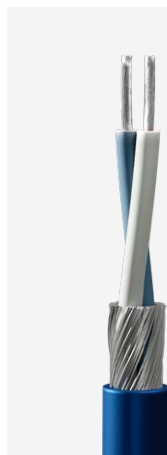
Multipair | 8 pair | Ø 13 mm

Part Number 7YDPR08E14SXPUR



Overall features

Shield: Tinned Copper Braid,
80% Coverage
Sheath: Black PUR Compound,
Ø 13,0 mm
Operating Temp: -30°C +80°C
Compliance: CE, RoHS



Technical data

Pairs: 8

Conductor: Nr.2 x 0,14mm² / 26 AWG (36 x 0,07 mm) Tinned Oxygen free Copper (OFC)

Insulation Wires: Ø 1,1 mm Blue, White Low density PE

Sheath: Ø 3,2 mm Light Blue PVC

Overall Shield: Tinned Copper "French" Braid ,80% Coverage

Pair Shield: Tinned Copper "French" Braid ,95% Coverage

DCR Cond : 140 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z0): 110 Ω

Standard: AES/EBU, DMX 512

Matching Plug: XLR, TRS Jack

Concentric Contra-Helical Lays

Feature highlight

Each layer of wires has a reversed lay direction and an increasing lay length in each succeeding layer, improving flexibility, strength, concentricity and reducing cross-talk.

Available for these cables

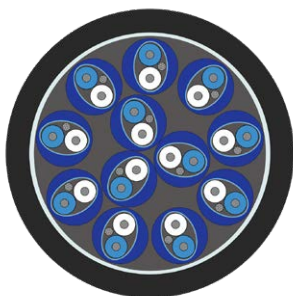
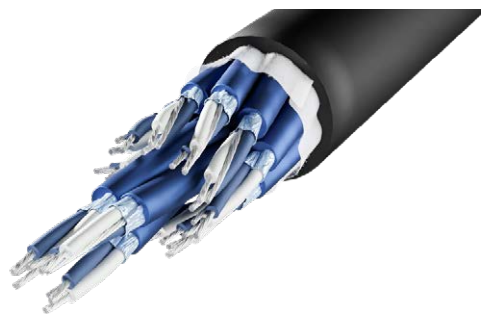
Pair	Part No.
12	7YDPR12ESX
12	7YDPR12ESXC
12	7YDPR12E14SX
12	7YDPR12E14SXC
12	7YDPR12E14SXPUR
16	7YDPR16ESX



Digital Cable

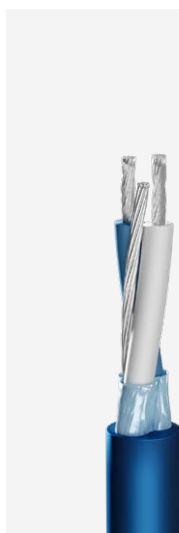
Multipair | 12 pair | Ø 17,4 mm

Part Number 7YDPR12ESX



Overall features

Sheath: Matte Black Super Flex PVC flame retardant, Ø 17,4 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



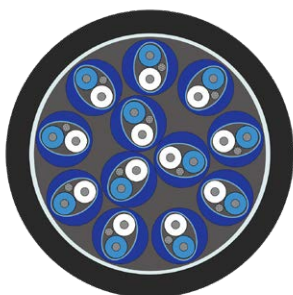
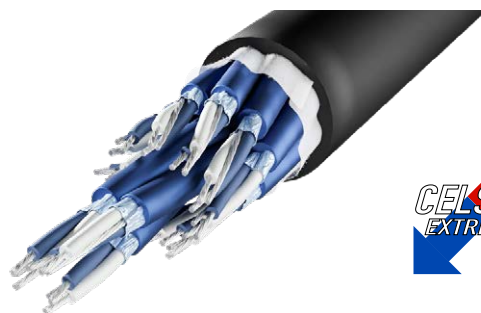
Technical data

Pairs: 12
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm) Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,4 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU,DMX 512
Matching Plug: XLR, TRS Jack

Digital Cable - Celsius Extreme

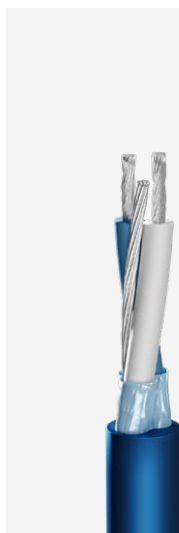
Multipair | 12 pair | Ø 17,4 mm

Part Number 7YDPR12ESXC



Overall features

Sheath: Black Special PVC Compound, Ø 17,4 mm
Operating Temp: -40°C + 105°C
Compliance: CE, RoHS



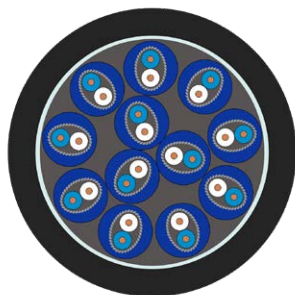
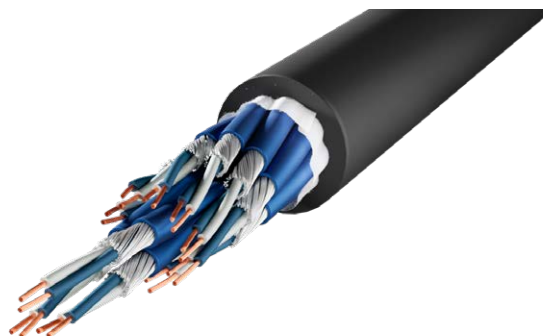
Technical data

Pairs: 12
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm) Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,4 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU,DMX 512
Matching Plug: XLR, TRS Jack

Digital Cable

Multipair | 12 pair | Ø 17,0 mm

Part Number 7YDPR12E14SX



Overall features

Sheath: Matte Black Super
Flex PVC flame retardant,
Ø 17,0 mm
Operating Temp: -30°C +80°C
Compliance: CE, RoHS



Technical data

Pairs: 12

Conductor: Nr.2 x 0,14mm² / 26 AWG (36 x 0,07 mm)
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,1 mm Blue, White Low density PE

Sheath: Ø 3,2 mm Light Blue PVC

Shield: Tinned Copper "French" Braid ,95% Coverage

DCR Cond : 140 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z0): 110 Ω

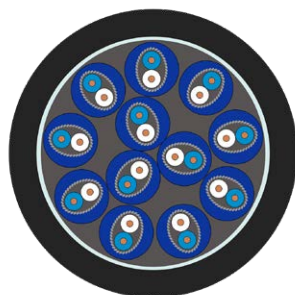
Standard: AES/EBU, DMX 512

Matching Plug: XLR, TRS Jack

Digital Cable - Celsius Extreme

Multipair | 12 pair | Ø 17,0 mm

Part Number 7YDPR12E14SXC



Overall features

Sheath: Black Special PVC
Compound, Ø 17,0 mm
Operating Temp: -40°C +105°C
Compliance: CE, RoHS



Technical data

Pairs: 12

Conductor: Nr.2 x 0,14mm² / 26 AWG (36 x 0,07 mm)
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,1 mm Blue, White Low density PE

Sheath: Ø 3,2 mm Light Blue PVC

Shield: Tinned Copper "French" Braid ,95% Coverage

DCR Cond : 140 Ω/Km

DCR Shield: N.D.

Capacitance C/C: 45 nF/Km

Impedance (Z0): 110 Ω

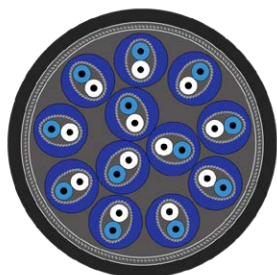
Standard: AES/EBU, DMX 512

Matching Plug: XLR, TRS Jack

Digital Cable | PUR

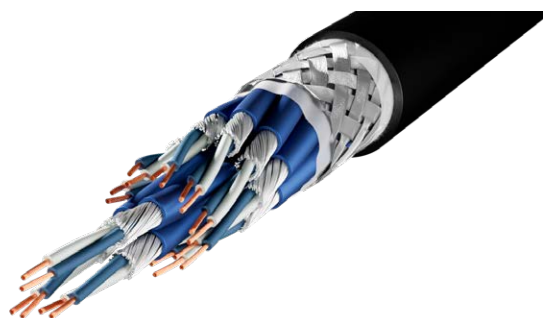
Multipair | 12 pair | Ø 16,0 mm

Part Number 7YDPR12E14SXPUR



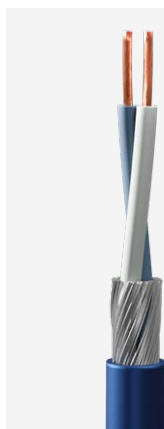
Overall features

Shield: Tinned Copper Braid,
80% Coverage
Sheath: Black PUR Compound,
Ø 16,0 mm
Operating Temp: -30°C +80°C
Compliance: CE, RoHS



Technical data

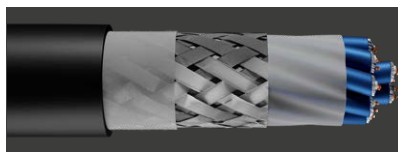
Pairs: 12
Conductor: Nr.2 x 0,14mm² / 26 AWG (36 x 0,07 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,1 mm Blue, White Low density PE
Sheath: Ø 3,2 mm Light Blue PVC
Overall Shield: Tinned Copper "French" Braid ,80% Coverage
Pair Shield: Tinned Copper "French" Braid ,95% Coverage
DCR Cond : 140 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 45 nF/Km
Impedance (Z₀): 110 Ω
Standard: AES/EBU,DMX 512
Matching Plug: XLR, TRS Jack



Extra smoothness and flexibility

Feature highlight

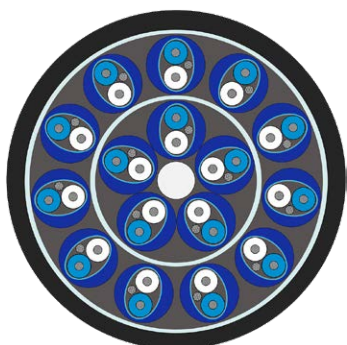
Double layer of fabric (nonwoven tape) to allow maximum smoothness of the internal elements which results in an improvement in the general flexibility of the cable.



Digital Cable

Multipair | 16 pair | Ø 19,5 mm

Part Number 7YDPR16ESX



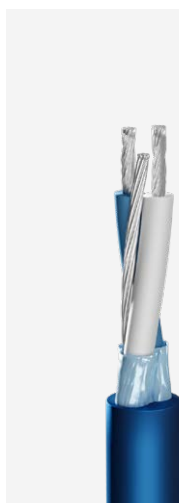
Overall features

Sheath: Matte Black Super Flex
PVC flame retardant, Ø 19,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

Pairs: 16
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (7 x 0,19 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Sheath: Ø 3,4 mm Blue PVC
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z₀): 110 Ω
Standard: AES/EBU,DMX 512
Matching Plug: XLR, TRS Jack



Digital Cable

AES/EBU installation | Ø 3,4 mm

Part Number 7XDCBL02ESX



Overall features

Sheath: Black PVC,
Ø 3,4 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

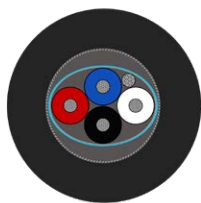
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 24 AWG (19 x 0,12 mm) Tinned Oxygen free
Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White Gas-injected FPE
Shield: Alu-Mylar Foil ,100% Coverage
DCR Cond : 86 Ω/Km
DCR Shield: 70 Ω/Km
Capacitance C/C: 37 nF/Km
Capacitance C/S: 57 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack



Digital Cable

2 pair | Ø 7,2 mm

Part Number 7XDDS07ESX

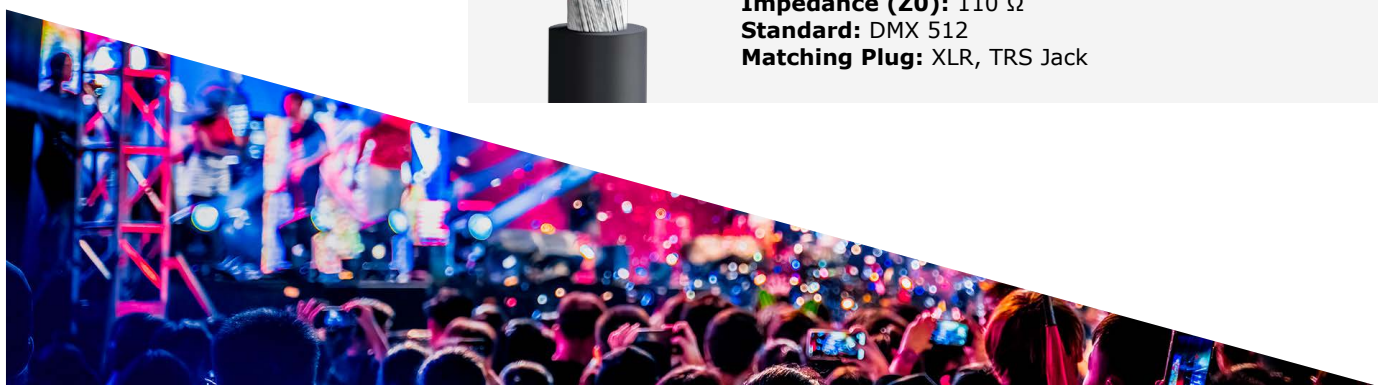


Overall features

Sheath: Black PVC,
Ø 7,2 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

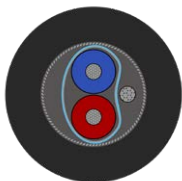
Pairs: 2
Conductor: Nr.4 x 0,22 mm² / 24 AWG (28 x 0,10 mm) Tinned
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Blue, White / Red, Black Skin FPE
Shield: Tinned Copper "French" Braid ,95% Coverage + Alu-
Mylar Foil ,100% Coverage
DCR Cond : 90 Ω/Km
DCR Shield: 25 Ω/Km
Capacitance C/C: 40 nF/Km
Capacitance C/S: 80 nF/Km
Impedance (Z0): 110 Ω
Standard: DMX 512
Matching Plug: XLR, TRS Jack



Digital Cable

Single pair | Ø 5,5 mm

Part Number 7XDDS03SXN (Black)



Overall features

Sheath: Black PVC,
Ø 5,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

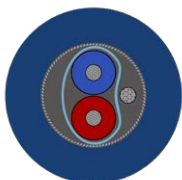
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 24 AWG (19 x 0,12 mm) Tinned Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue Skin FPE
Shield: Tinned Copper "French" Braid ,95% Coverage + Alu-Mylar Foil ,100% Coverage
DCR Cond : 90 Ω/Km
DCR Shield: 25 Ω/Km
Capacitance C/C: 40 nF/Km
Capacitance C/S: 80 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU,DMX 512
Matching Plug: XLR, TRS Jack



Digital Cable

Single pair | Ø 5,5 mm

Part Number 7XDDS03SX (Blue)



Overall features

Sheath: Blue PVC,
Ø 5,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

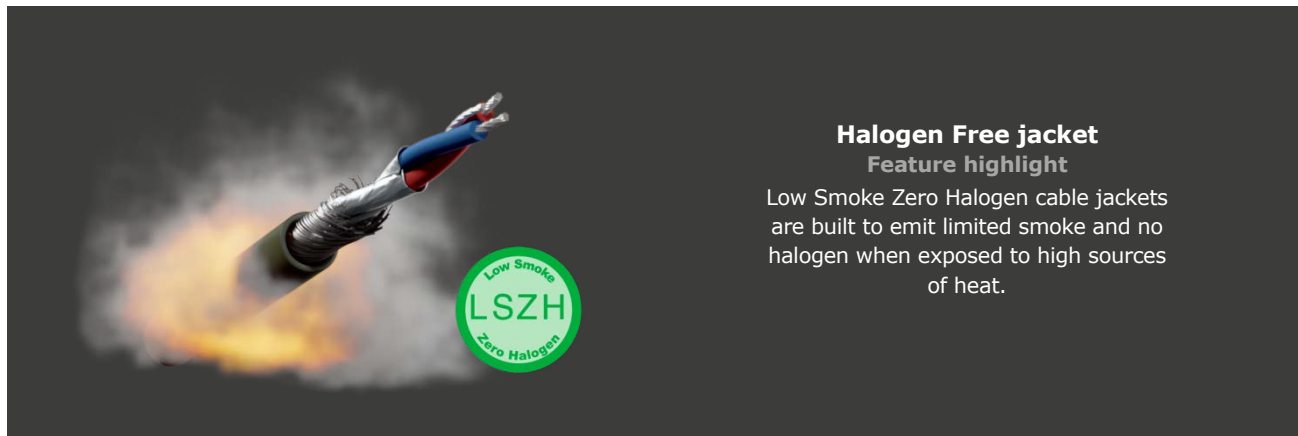
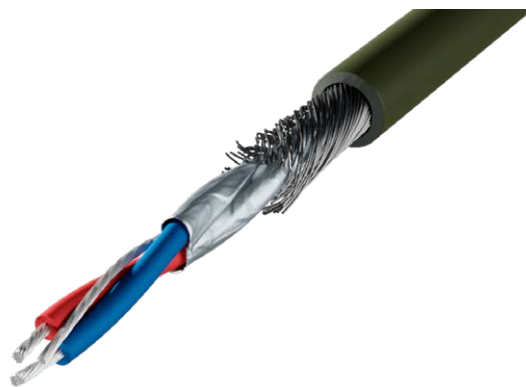
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 24 AWG (19 x 0,12 mm) Tinned Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue Skin FPE
Shield: Tinned Copper "French" Braid ,95% Coverage + Alu-Mylar Foil ,100% Coverage
DCR Cond : 90 Ω/Km
DCR Shield: 25 Ω/Km
Capacitance C/C: 40 nF/Km
Capacitance C/S: 80 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU,DMX 512
Matching Plug: XLR, TRS Jack



Digital Cable - Halogen free

Single pair | Ø 5,5 mm

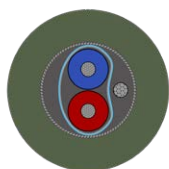
Part Number 7XDDHF03SX



Halogen Free jacket

Feature highlight

Low Smoke Zero Halogen cable jackets are built to emit limited smoke and no halogen when exposed to high sources of heat.



Overall features

Sheath: Dark Green PVC,
Ø 5,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS, LSZH



Technical data

Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue Skin FPE
Shield: Tinned Copper "French" Braid ,95% Coverage +
Alu-Mylar Foil ,100% Coverage
DCR Cond : 90 Ω/Km
DCR Shield: 25 Ω/Km
Capacitance C/C: 40 nF/Km
Capacitance C/S: 80 nF/Km
Impedance (Z0): 110 Ω
Standard: AES/EBU, DMX 512
Matching Plug: XLR, TRS Jack





Syntax® Analog Cables

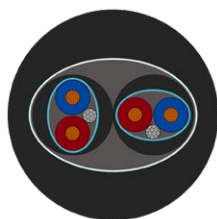
Ready for the show

Multipair, microphone, audio installation and instrument cables. Developed for professional application in rigorous environments.

Syntax® Multipair Cable

Audio Analog | 2 pair | Ø 7,2 mm

Part Number 7YPR02ESX



Overall features

Sheath: Black PVC
flame-retardant, Ø 7,2 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

Core: 2

Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)

Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,4 mm Red, Blue XLPE

Sheath: Ø 2,7 mm Black PVC flame-retardant

Shield: Alu-Polyester Foil ,100% Coverage

DCR Cond: 90,0 Ω/Km

DCR Shield: 70,0 Ω/Km

Capacitance C/C: 100 nF/Km

Capacitance C/S: 200 nF/Km

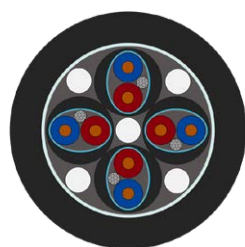
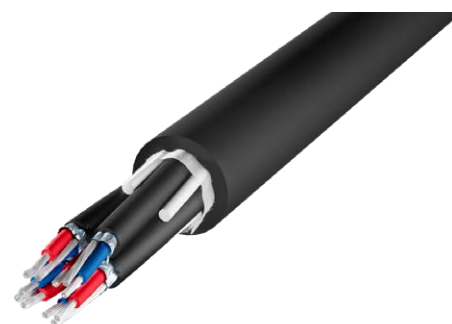
Matching Plug: XLR, TRS Jack, Bantam



Syntax® Multipair Cable

Audio Analog | 4 pair | Ø 9,6 mm

Part Number 7YPR04SX



Overall features

Sheath: Black PVC
flame-retardant, Ø 9,6 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

Core: 2

Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)

Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)

Insulation Wires: Ø 1,4 mm Red, Blue XLPE

Sheath: Ø 2,7 mm Black PVC flame-retardant

Shield: Alu-Polyester Foil ,100% Coverage

DCR Cond : 90,0 Ω/Km

DCR Shield: 70,0 Ω/Km

Capacitance C/C: 100 nF/Km

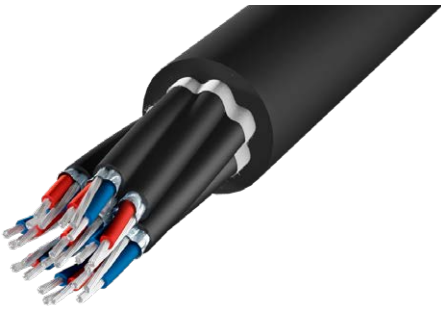
Capacitance C/S: 200 nF/Km

Matching Plug: XLR, TRS Jack, Bantam



Syntax® Multipair Cable

Audio Analog | 8 pair | Ø 12,2 mm
Part Number 7YPR0E8SX

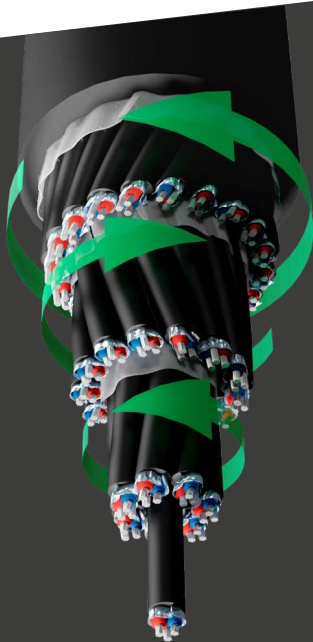


Overall features

Sheath: Black PVC
flame-retardant, Ø 12,2 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

Core: 8
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Sheath: Ø 2,7 mm Black PVC flame-retardant
Shield: Alu-Polyester Foil ,100% Coverage
DCR Cond : 90,0 Ω/Km
DCR Shield: 70,0 Ω/Km
Capacitance C/C: 100 nF/Km
Capacitance C/S: 200 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



Concentric Contra-Helical Lays

Feature highlight

Each layer of wires has a reversed lay direction and an increasing lay length in each succeeding layer, improving flexibility, strength, concentricity and reducing cross-talk.

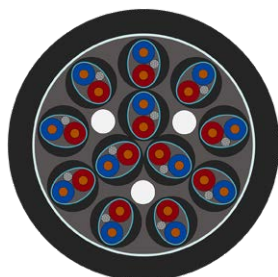
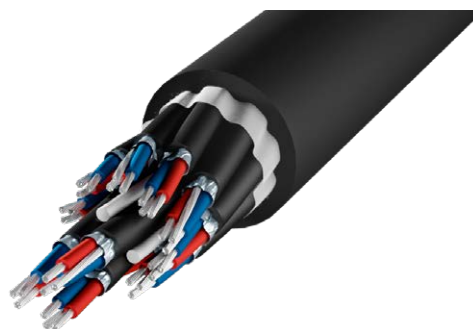
Available for these cables

Pair	Part No.
12	7YPR12ESX
16	7YPR16ESX
24	7YPR24ESX
32	7YPR32ESX
40	7YPR40SX
48	7YPR48ESX

Syntax® Multipair Cable

Audio Analog | 12 pair | Ø 14,5 mm

Part Number 7YPR12SEX



Overall features

Sheath: Black PVC
flame-retardant, Ø 14,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

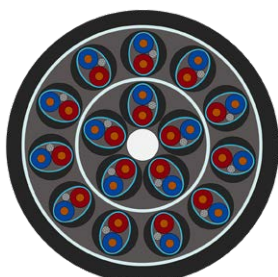
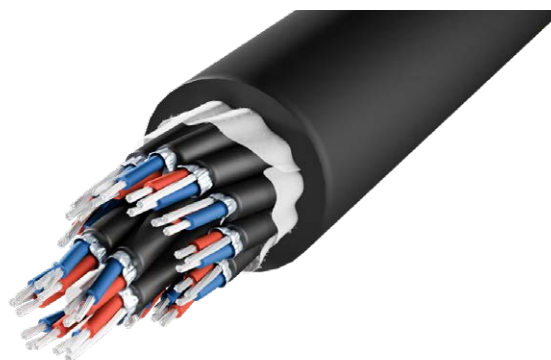
Core: 12
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Sheath: Ø 2,7 mm Black PVC flame-retardant
Shield: Alu-Polyester Foil ,100% Coverage
DCR Cond: 90,0 Ω/Km
DCR Shield: 70,0 Ω/Km
Capacitance C/C: 100 nF/Km
Capacitance C/S: 200 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



Syntax® Multipair Cable

Audio Analog | 16 pair | Ø 16,3 mm

Part Number 7YPR16SEX



Overall features

Sheath: Black PVC
flame-retardant, Ø 16,3 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

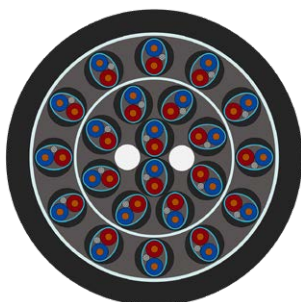
Core: 16
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Sheath: Ø 2,7 mm Black PVC flame-retardant
Shield: Alu-Polyester Foil ,100% Coverage
DCR Cond: 90,0 Ω/Km
DCR Shield: 70,0 Ω/Km
Capacitance C/C: 100 nF/Km
Capacitance C/S: 200 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



Syntax® Multipair Cable

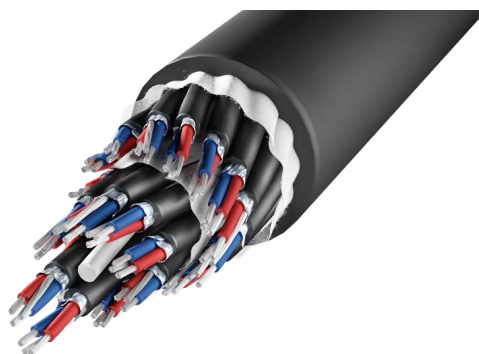
Audio Analog | 24 pair | Ø 20,8 mm

Part Number 7YPR24ESX



Overall features

Sheath: Black PVC
flame-retardant, Ø 20,8 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

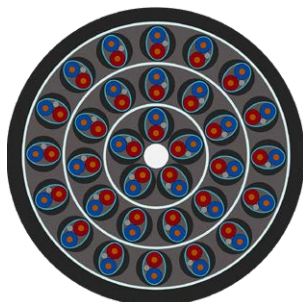
Core: 24
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Sheath: Ø 2,7 mm Black PVC flame-retardant
Shield: Alu-Polyester Foil ,100% Coverage
DCR Cond: 90,0 Ω/Km
DCR Shield: 70,0 Ω/Km
Capacitance C/C: 100 nF/Km
Capacitance C/S: 200 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



Syntax® Multipair Cable

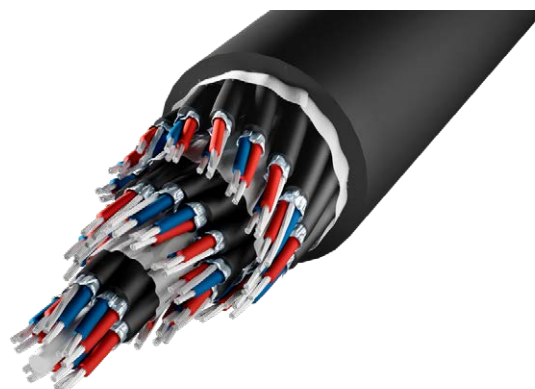
Audio Analog | 32 pair | Ø 22,8 mm

Part Number 7YPR32ESX



Overall features

Sheath: Black PVC
flame-retardant, Ø 22,8 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

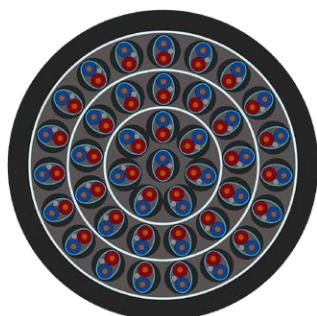
Core: 32
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Sheath: Ø 2,7 mm Black PVC flame-retardant
Shield: Alu-Polyester Foil ,100% Coverage
DCR Cond: 90,0 Ω/Km
DCR Shield: 70,0 Ω/Km
Capacitance C/C: 100 nF/Km
Capacitance C/S: 200 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



Syntax[®] Multipair Cable

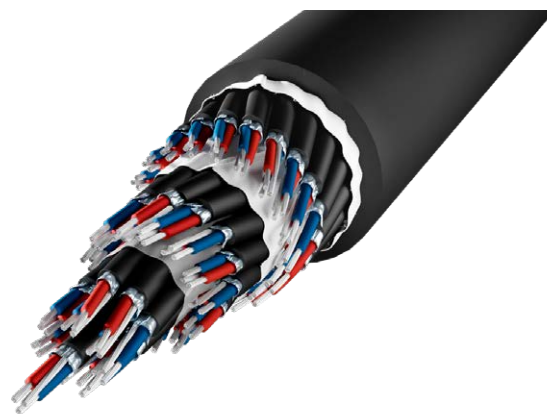
Audio Analog | 40 pair | Ø 25,5 mm

Part Number 7YPR40SX



Overall features

Sheath: Black PVC
flame-retardant, Ø 25,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

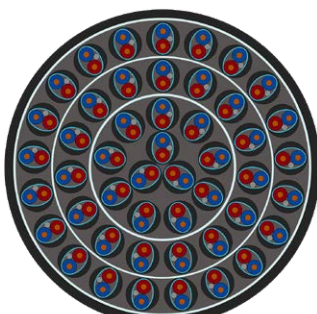
Core: 40
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Sheath: Ø 2,7 mm Black PVC flame-retardant
Shield: Alu-Polyester Foil ,100% Coverage
DCR Cond: 90,0 Ω/Km
DCR Shield: 70,0 Ω/Km
Capacitance C/C: 100 nF/Km
Capacitance C/S: 200 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



Syntax[®] Multipair Cable

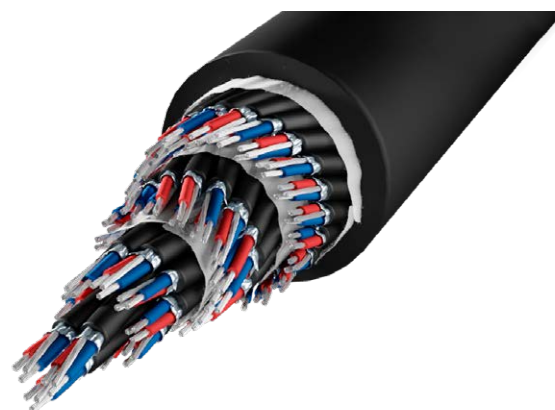
Audio Analog | 48 pair | Ø 27,0 mm

Part Number 7YPR48ESX



Overall features

Sheath: Black PVC
flame-retardant, Ø 27,0 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

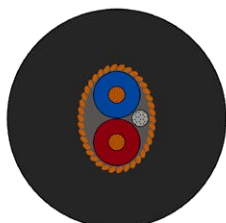
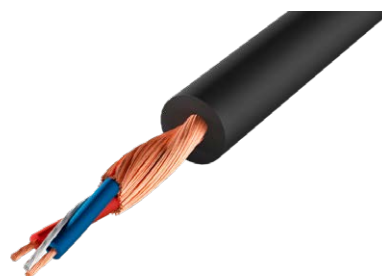
Core: 48
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Sheath: Ø 2,7 mm Black PVC flame-retardant
Shield: Alu-Polyester Foil ,100% Coverage
DCR Cond: 90,0 Ω/Km
DCR Shield: 70,0 Ω/Km
Capacitance C/C: 100 nF/Km
Capacitance C/S: 200 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



Syntax® Analog Cable

Audio Microphone | 2 x 0,22 mm² | Ø 6,5 mm

Part Number 7XSPM03N

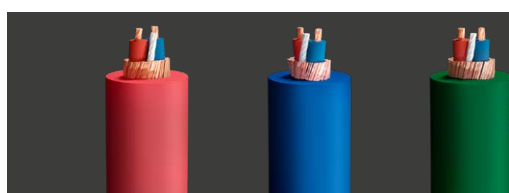


Overall features

Sheath: Black PVC
flame-retardant, Ø 6,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

Pairs: 1
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Shield: Copper "French" Braid ,95% Coverage
DCR Cond: 96,0 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 160 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



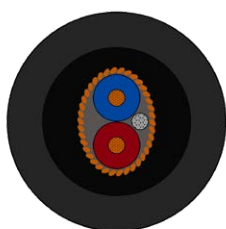
Alternative sheath colors

Code	Color
7XSPM03R	Red
7XSPM03B	Blue
7XSPM03G	Green

Syntax® Analog Cable

Audio Microphone | 2 x 0,22 mm² | Ø 6,5 mm

Part Number 7XSP03N



Overall features

Inner Sheath: Black PVC
flame-retardant, Ø 4,4 mm
Outer Sheath: Black PVC
flame-retardant, Ø 6,5 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

Pairs: 1
Conductor: Nr.2 x 0,22 mm² / 24 AWG (19 x 0,12 mm)
Oxygen free Copper (OFC)
Drain Wire: 0,22 mm² / 24 AWG (19 x 0,12 mm) Tinned
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Blue XLPE
Shield: Copper "French" Braid ,95% Coverage
DCR Cond: 96,0 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 160 nF/Km
Matching Plug: XLR, TRS Jack, Bantam



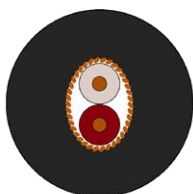
Double sheath Feature highlight

This microphone cable version has a double jacket, which allows its usage also with connectors having a small cable gland.

Syntax[®] Analog Cable

Audio Multipair | 2 x 0,22 mm² | Ø 6,4 mm

Part Number 7XSP02N



Overall features

Sheath: Black PVC
flame-retardant, Ø 6,4 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

Technical data

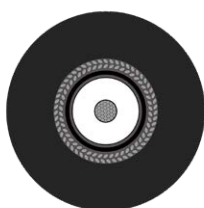
Pairs: 1
Conductor: Nr.2 x 0,22 mm² / 24 AWG (28 x 0,10 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 1,4 mm Red, Clear XLPE
Shield: Copper "French" Braid ,95% Coverage
DCR Cond: 85,0 Ω/Km
DCR Shield: N.D.
Capacitance C/C: 110 nF/Km
Matching Plug: XLR, TRS Jack



Syntax[®] Analog Cable

Instrument | 1 x 0,50 mm² | Ø 7,0 mm

Part Number 7XHP01SX

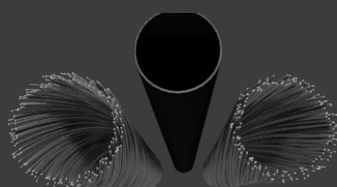


Overall features

Sheath: Black Flex PV
flame-retardant, Ø 7,0 mm
Insulation Resistance: 1 GΩ x Km
Operating Temp: -30°C +70°C
Compliance: CE, RoHS

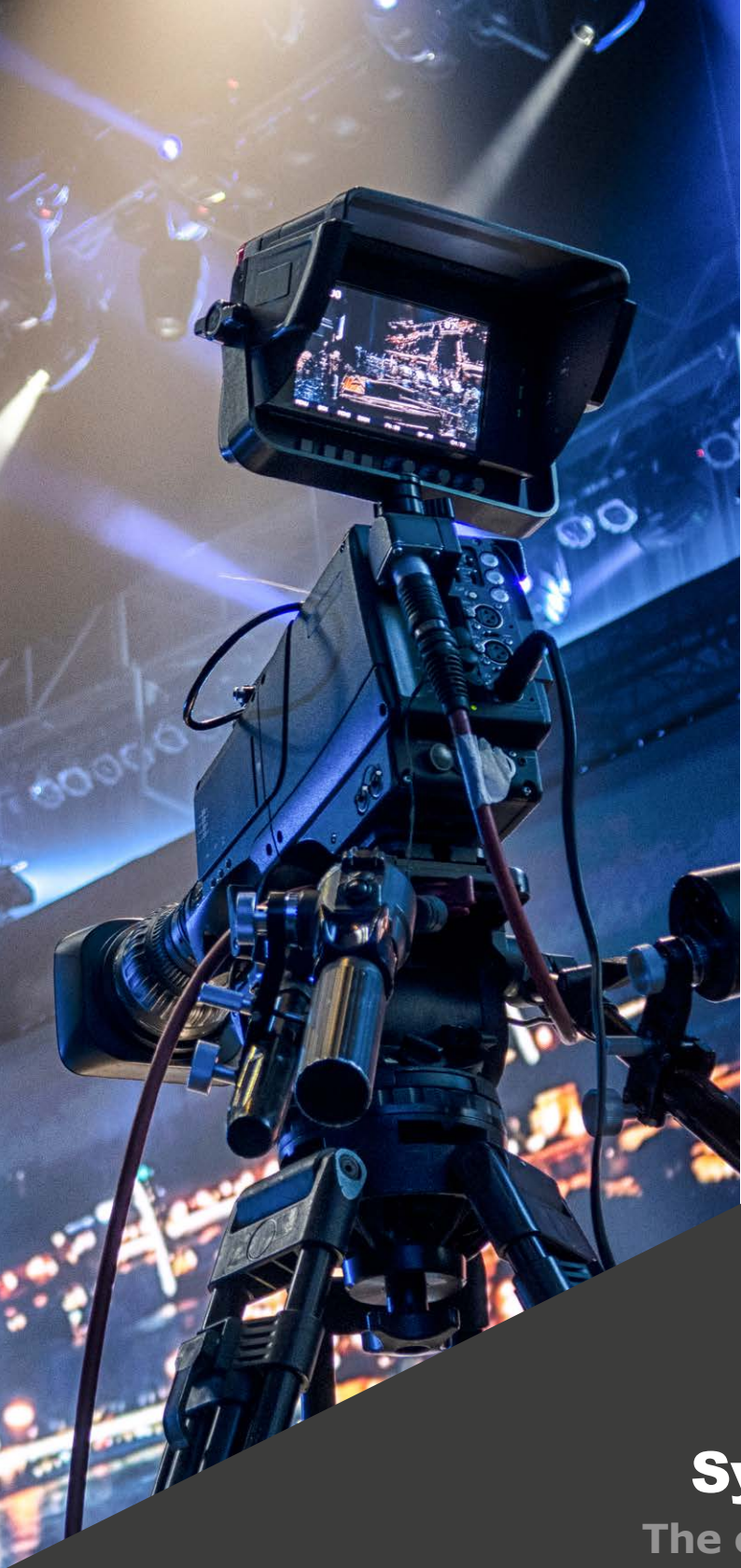
Technical data

Conductor: Nr.1 x 0,50 mm² / 20 AWG (64 x 0,10 mm)
Tinned Oxygen free Copper (OFC)
Insulation Wires: Ø 2,4 mm White Skin FPE
Shield: Conductive Carbon Tube ,100% Coverage +
Double Tinned Copper "French" Braid
DCR Cond: 39,5 Ω/Km
DCR Shield: N.D.
Capacitance C/S: 89 nF/Km
Matching Plug: TS Jack



Triple shield Feature highlight

A triple shield (double tin-plated copper spiral shielding and conductive carbon tube) ensures total protection from external signal disturbance.



Syntax® Video Cables

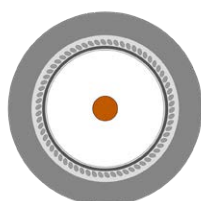
The choice for professional video

All-copper construction enhances signal strength, high-density shielding protects the signal from outside interference.

Video Cable

HDTV-SDI installation | 1 x 0,5 mm² | Ø 6,2 mm

Part Number 7XVD59RHD



Overall features

Sheath: Gray PVC, Ø 6,2 mm
Operating Temp: -30°C +70°C
Compliance: CE, RoHS



Technical data

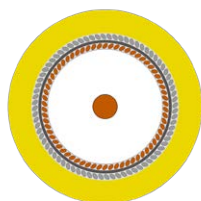
Conductor: Nr.1 x 0,5 mm² / 20 AWG (1 x 0,81 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 3,75 mm White FPE
Shield: Alu-Polyester Foil ,100% Coverage + Tinned Copper Braid ,90% Coverage
DCR Cond : 36 Ω/Km
DCR Shield: N.D.
Capacitance C/S: 53 nF/Km (± 5%)
Impedance (Z0): 75 Ω (± 3)
NPV: 84%
Standard: HD-SDI
Matching Plug: BNC



Video Cable

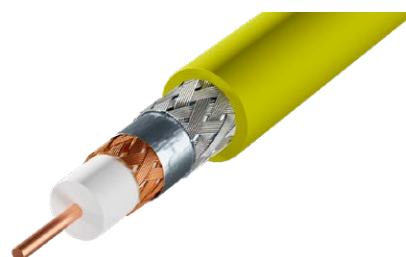
HDTV-SDI installation | 1 x 0,5 mm² | Ø 6,2 mm

Part Number 7XVD59HDTV



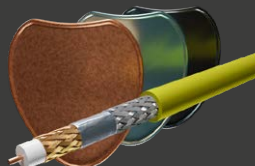
Overall features

Sheath: Yellow PVC, Ø 6,2 mm
Operating Temp: -15°C +70°C
Compliance: CE, RoHS



Technical data

Conductor: Nr.1 x 0,5 mm² / 20 AWG (1 x 0,81 mm)
Oxygen free Copper (OFC)
Insulation Wires: Ø 3,70 mm White FPE
Shield: Bare Copper Braid ,85% Coverage + Tinned Copper Braid ,85% Coverage
DCR Cond : 36 Ω/Km
DCR Shield: 8 Ω/Km
Capacitance C/S: 60 nF/Km (± 5%)
Impedance (Z0): 75 Ω (± 3)
NPV: 79%
Standard: HD-SDI
Matching Plug: BNC



Triple shield

Feature highlight

The presence of 3 different shields, an aluminium foil layer between a red and a tinned copper braid, ensures full protection from external noise even in difficult environments.

Halogen Free jacket

Feature highlight

Low Smoke Zero Halogen cable jackets are built to emit limited smoke and no halogen when exposed to high sources of heat.





Cable Drums

Your cables? Secured.

We enlarged the internal diameter of the drum to make it extremely functional and prevent your cables from damage caused by winding.
Less mess...and less stress!

Heavy-duty CD series

Cable drums

The Syntax® cable drums CD series has an extremely strong structure, thanks to high resistance bent and soldered structural steel tubes. External finish is high-resistance matt black powder. The crank handle can be lodged on the side of the external frame, making the cable drum a proper parallelepiped without any protrusion for space-saving in freight. Designed for professional application, the central roller presents an oversize 200 mm diameter which allows rewinding even large diameter cables, avoiding damage to the cables'

electrical and mechanical features. The drum is mounted on ball bearings and divided in two sections, the narrower of which is suited for housing cables' ends. We also supply elastic band with velcro® ends, in order to avoid freight damage, binding the cables' ends tight to the drum. On the side opposite to the crank, a friction-adjustable brake is installed, to stop the roller revolving during transport. Protective rubber feet on the bottom of the structure ensure the right ground-detachment and easier stacking up.



Part No. 7SYCD300

Weight 18.0 kg

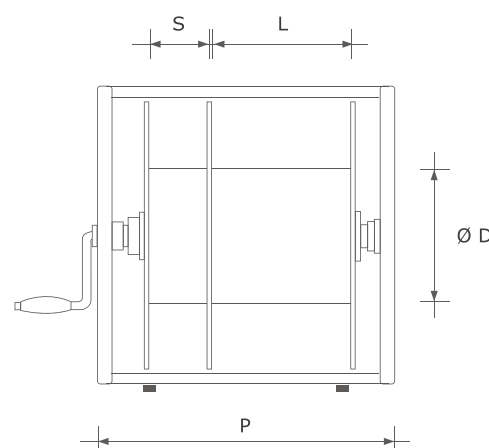
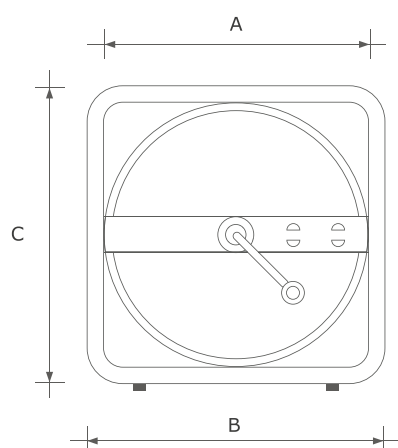


Part No. 7SYCD400

Weight 21.5 kg

Drum capacities summary table

	ø cable (mm)	6.2	7.2	9.6	12.2	14.5	16.3	18.0	20.8	22.8	25.2	27.0	30.0
Part No. 7SYCD300	Drum capacity sector L (mt)	780	600	320	190	125	100	90	68	50	45	34	30
Part No. 7SYCD400	Drum capacity sector L (mt)	1040	820	430	250	170	130	125	90	65	60	43	40
	Drum capacity sector S (mt)	240	190	95	55	38	27	23	19	15	12	9	7

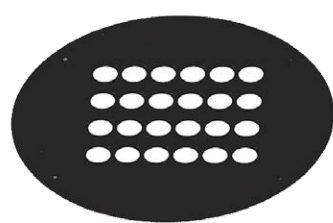


	A	C	B	D	S	L	P
Part No. 7SYCD300	460	500	500	200	90	300	500
Part No. 7SYCD400	460	500	500	200	90	400	600

CR series

Cable drums

This cable drum is easy to use and suitable for many different jobs and is particularly useful for the realization of multicore distribution system. Its perimetric structure completely clusters the drum. The high resistance frame, made up of bent and soldered structural steel, prevents accidental mechanical damage and is matt black powder coated. The internal diameter of the roller allows to easily wind/rewind either large cables or more delicate video and optical fiber cables. The central shaft of the steel roller is attached on one side only through a spindle fixed on a 40 mm boxed steel, while the other side is free. This drum side has a large opening where an optional quick-release plate can be set to house the cable ends. Alternatively, a 16, 24, or 32 hole drilled plate for XLR mounting can be fitted on the open side to obtain a revolving stage-box. The crank handle is located on the same side, while on the opposite side a friction-adjustable brake is supplied, to stop the roller rotation during transport. The cable drum has four wheels (two of which with brakes), for easier moving.



XLR Holed
Side plate

- Part No. **7SYCRP16** | 16 holes for XLR "D" type
- Part No. **7SYCRP24** | 24 holes for XLR "D" type
- Part No. **7SYCRP32** | 32 holes for XLR "D" type

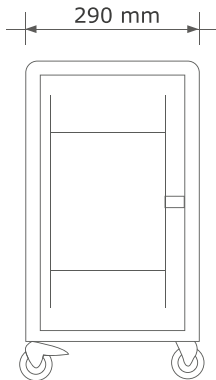
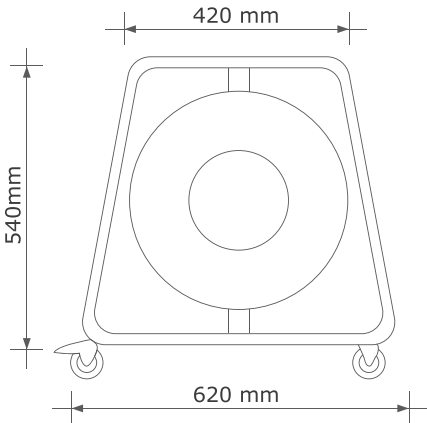


Close
Side plate

- Part No. **7SYCRP00** | Closing side plate

Drum capacities summary table

ø cable (mm)	5.5	6.2	6.5	7.2	9.6	11.2	12.2	14.5	16.3	18.0	20.8	22.8
Drum capacity sector (mt)	450	350	330	270	150	100	84	60	45	37	25	22



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