

## Network cable - VS-FSBPXS-OE-94F/0,5 - 1424135

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Assembled Ethernet cable, CAT6<sub>A</sub>, shielded, 4-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), M12 flush-type socket, rear/screw mounting with M16 thread to free cable end, length: 0.5 m

### Why buy this product

- ✓ Pre-assembled with cables in various standard lengths for immediate use
- ✓ Customer-specific assemblies and cable lengths can be supplied
- ✓ Sealed on the cable side for optimum tightness of seal
- ✓ Cable designs for all common networks and fieldbuses
- ✓ For high transmission safety: shield connection to the housing with optional EMC nut



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 692618
GTIN	4046356692618
Weight per Piece (excluding packing)	60.000 g
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Mechanical characteristics

Number of positions	8
Number of slots	1
Insertion/withdrawal cycles	≥ 100
Cable exit	straight

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### Technical data

#### Mechanical characteristics

Length of cable	0.5 m
Insulation resistance	≥ 100 MΩ
Degree of protection	IP67
	IP65/IP67
No. of cable outlets	1

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 90 °C (without mechanical actuation)
Degree of protection	IP65
	IP67

#### Material data

Flammability rating according to UL 94	V0
Contact carrier material	PPA
Contact material	CuZn
Contact surface material	Au
Cable gland material	Zinc die-cast, nickel-plated
Sealing material	FKM

#### Electrical characteristics

Rated surge voltage	0.8 kV
Insulation resistance	≥ 100 MΩ
Transmission characteristics (category)	CAT6 <sub>A</sub>

#### Standards and Regulations

Flammability rating according to UL 94	V0
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#### Line characteristics

Cable type	Ethernet 10 Gbit
Cable abbreviation	02YSC11Y
UL AWM style	20963 (80°C/30 V)
Cable structure	4x2xAWG26/7; S/FTP
Conductor cross section	4x 2x 0.14 mm <sup>2</sup>
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	1.04 mm
External cable diameter	6.4 mm ±0.2 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown

## Network cable - VS-FSBPXS-OE-94F/0,5 - 1424135

### Technical data

#### Line characteristics

External sheath, color	water blue RAL 5021
Transmission medium	Copper
Insulation resistance	≥ 500 MΩ*km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Signal runtime	5.13 ns/m
Shield attenuation	≥ 80 dB (at 30 ... 100 MHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined foil
Overall twist	4 pairs for core
Shielding	Tinned copper braided shield
Optical shield covering	70 %
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires
Cable weight	42 kg/km
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Tensile strength short-term/long-term	≤ 100 N
Flame resistance	according to IEC 60332-1-2
Halogen-free	According to IEC 60754-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)

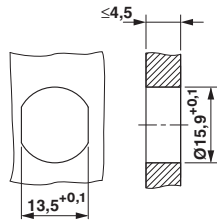
#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

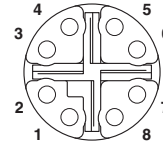
### Drawings

# Network cable - VS-FSBPXS-OE-94F/0,5 - 1424135

Dimensional drawing

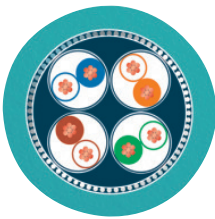


Schematic diagram



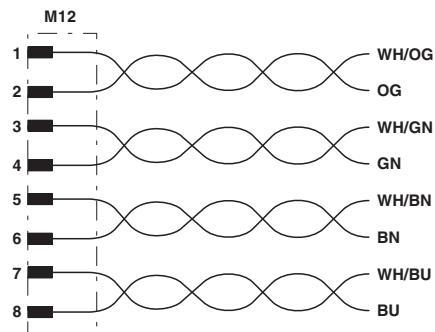
M12 socket pin assignment, 8-pos, view of socket side

Cable cross section



Ethernet 10 Gbit [94F]

Circuit diagram



Contact assignment of the M12 plug

## Approvals

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Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

### Approval details

EAC B.00767


UL Recognized <http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm> FILE E 335024


Nominal current I <sub>N</sub>	0.5 A
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## Network cable - VS-FSBPXS-OE-94F/0,5 - 1424135

### Approvals

Nominal voltage UN	60 V
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Nominal current IN	0.5 A
Nominal voltage UN	60 V

cULus Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	
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