

## Network cable - VS-M12MS-IP20-94B-LI/5,0 - 1412053

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (sea blue), M12 plug to RJ45 plug/IP20, line, length 5 m



**Ethernet**

### Key commercial data

Packing unit	1 PCE
Catalog page	Page 301 (PC-2011)
GTIN	 4 046356 475464
Custom tariff number	85444210
Country of origin	POLAND

### Technical data

#### Mechanical characteristics

Number of positions	8
Shielded	Yes
Insertion/withdrawal cycles	≥ 100
Cable diameter	6.40 mm
Cable exit	Straight
Cable structure	4x2xAWG26/7; S/FTP
Smallest bending radius, fixed installation	min. 32 mm
Smallest bending radius, movable installation	min. 32 mm (cable, flexible installation)
Length of cable	5 m
Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
Ambient temperature (operation)	-5 °C ... 60 °C (cable, flexible installation)

#### Material data

Inflammability class according to UL 94	HB
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## Network cable - VS-M12MS-IP20-94B-LI/5,0 - 1412053

### Technical data

#### Material data

Outer sheath, material	PUR
External sheath, color	water blue RAL 5021

#### Line characteristics

Cable type	Ethernet
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
Thickness, insulation	0.28 mm (signal line)
Thickness, insulation	0.65 mm (Outer cable sheath)
External cable diameter	6.4 mm ± 0.2 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
External sheath, color	water blue RAL 5021
Transmission medium	Copper
Insulation resistance	≥ 500 MΩ*km (at 20 °C)
Conductor resistance	≤ 290 Ω/km (at 20 °C)
Transmission characteristics (category)	CAT6 <sub>A</sub>
Wave impedance	100 Ω ± 5 Ω (At 100 MHz)
Signal runtime	5.3 ns/m
Shield attenuation	≥ 80 dB (At 30 ... 100 MHz)
Nominal voltage, conductor	≤ 100 V (at 20 °C)
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 polyester foil
Overall twist	4 pairs
Shielding	Tinned copper braided shield
Optical shield covering	70 %
Outer sheath, material	PUR
Material conductor insulation	PE
Conductor material	Bare Cu litz wires
Cable weight	43 kg/km
Smallest bending radius, fixed installation	25.6 mm
Smallest bending radius, movable installation	51.2 mm
Tensile strength short-term/long-term	≤ 100 N

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#### Line characteristics

Flame resistance	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 ... 70 °C (cable, fixed installation)
Ambient temperature (operation)	-10 °C ... 50 °C (cable, flexible installation)

### Classifications

#### ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC000830

#### UNSPSC

UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501
UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501

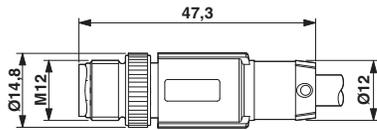
#### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
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eCl@ss 5.1	27060307
eCl@ss 6.0	27061801
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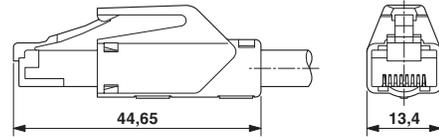
### Drawings

# Network cable - VS-M12MS-IP20-94B-LI/5,0 - 1412053

Dimensioned drawing



Dimensioned drawing



Plug, M12 x 1, straight, shielded

Circuit diagram

