

## Network cable - VS-M12MS-M12MS-94B-LI/5,0 - 1412626

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

RoHS

Ethernet

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 475600
GTIN	4046356475600
Weight per Piece (excluding packing)	260.000 g
Custom tariff number	85444210
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	5 m
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#### Ambient conditions

Degree of protection	IP65
	IP67

#### General data

Rated voltage	48 V AC
	60 V DC
Number of positions	8
Signal type/category	Ethernet CAT5 (on the basis of IEC 11801), 1 Gbps
Degree of pollution	3

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## Technical data

### General data

Alternative short product description	Ethernet cable
Degree of protection	IP65/IP67/IP69K
Transmission characteristics (category)	CAT5

### Characteristics head 1

Head type	Plug straight M12
Shielded	yes
Outer sheath, material	PUR
External sheath, color	water blue RAL#5021
Type type, plug side	Plug straight
Type type, socket side	Plug, straight

### Characteristics head 2

Head type	Plug straight M12
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### Standards and Regulations

Flammability rating according to UL 94	HB
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### Cable

Cable type	Ethernet flexible CAT5, 4-pair
Cable type (abbreviation)	94B
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps
Cable structure	4x2xAWG26/7; SF/UTP
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	0.96 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	70 %
External sheath, color	water blue RAL#5021
Outer sheath thickness	1.05 mm
External cable diameter D	6.4 mm ±0.2 mm
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Tensile strength GRP	≤ 100 N

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### Technical data

#### Cable

Cable weight	47 kg/km	
Outer sheath, material	PUR	
Material conductor insulation	Foamed PE	
Conductor material	Bare Cu litz wires	
Insulation resistance	$\geq 500 \text{ M}\Omega \cdot \text{km}$	
Loop resistance	$\leq 290.00 \text{ }\Omega/\text{km}$	
Cable capacity	48 nF/km (at 1 kHz)	
Wave impedance	100 $\Omega \pm 5 \text{ }\Omega$ (at 100 MHz)	
Near end crosstalk attenuation (NEXT)	71.3 dB (with 1 MHz)	
	62.3 dB (at 4 MHz)	
	56.3 dB (at 10 MHz)	
	53.2 dB (at 16 MHz)	
	51.8 dB (at 20 MHz)	
	48.9 dB (at 31.25 MHz)	
	44.4 dB (at 62.5 MHz)	
	41.3 dB (at 100 MHz)	
	Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
		53.3 dB (at 4 MHz)
47.3 dB (at 10 MHz)		
44.2 dB (at 16 MHz)		
42.8 dB (at 20 MHz)		
39.9 dB (at 31.25 MHz)		
35.4 dB (at 62.5 MHz)		
32.3 dB (at 100 MHz)		
Attenuation	3.2 dB (with 1 MHz)	
	6 dB (at 4 MHz)	
	9.5 dB (at 10 MHz)	
	12.1 dB (at 16 MHz)	
	13.6 dB (at 20 MHz)	
	17.1 dB (at 31.25 MHz)	
	24.8 dB (at 62.5 MHz)	
	32 dB (at 100 MHz)	
Return loss (RL)	23 dB (at 4 MHz)	
	24.1 dB (at 8 MHz)	
	25 dB (at 10 MHz)	
	25 dB (at 16 MHz)	
	25 dB (at 20 MHz)	

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### Technical data

#### Cable

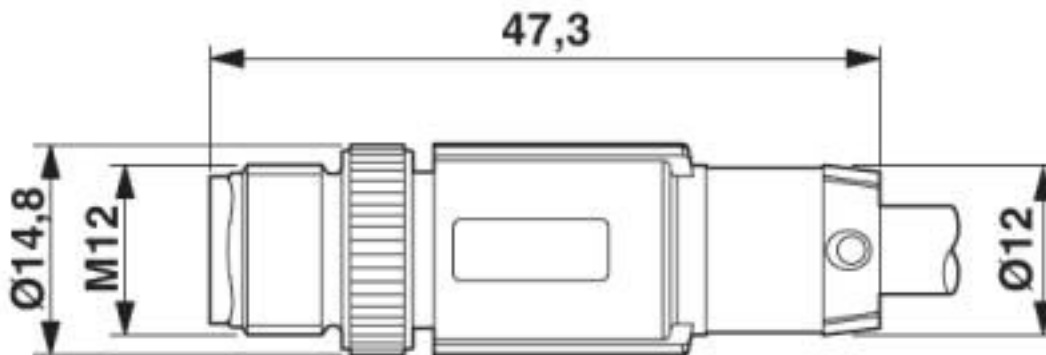
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	according to IEC 60332-1-2
Halogen-free	according to IEC 60754-1
Resistance to oil	according to EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

# Network cable - VS-M12MS-M12MS-94B-LI/5,0 - 1412626

Cable cross section



Ethernet flexible CAT5, 4-pair [94B]

## Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27060307
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218

# Network cable - VS-M12MS-M12MS-94B-LI/5,0 - 1412626

## Classifications

eCl@ss

eCl@ss 9.0	27060311
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## ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC001855
ETIM 6.0	EC001855

## UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501

## Approvals

Approvals

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Approvals


EAC

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Ex Approvals

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## Approval details

EAC		EAC-Zulassung
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