

Network cable - VS-M12FSEC-OE-93E-LI/2,0 - 1405837

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 flush-type socket, front/screw mounting with M16 thread on free conductor end, line, length 2 m



Key commercial data

Packing unit	1 PCE
GTIN	4 046356 475969
Custom tariff number	85444290
Country of origin	GERMANY

Technical data

Mechanical characteristics

Number of positions	4
Shielded	Yes
Insertion/withdrawal cycles	≥ 100
Cable diameter	6.70 mm
Cable exit	Straight
Cable structure	2x2xAWG26/7; SF/UTP
Smallest bending radius, fixed installation	33.5 mm (cable, fixed installation)
Smallest bending radius, movable installation	33.5 mm (cable, flexible installation)
Length of cable	2 m
Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 60 °C (cable, flexible installation)
	-25 °C ... 90 °C

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
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Ambient conditions

	-5 °C ... 60 °C (cable, flexible installation)
	-25 °C ... 90 °C
Degree of protection	IP65/67

Material data

Inflammability class according to UL 94	V0
Contact carrier material	PA 66
Contact material	CuZn
Contact surface material	Ni/Au
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021

Electrical characteristics

Insulation resistance	$\geq 100 \text{ M}\Omega$
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)

Line characteristics

Cable type	PUR ETHERNET 2x2 FLEX
UL AWM style	20963 (80°C/30 V)
Cable structure	2x2xAWG26/7; SF/UTP
Conductor cross section	2x 2x 0.14 mm ²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	0.98 mm
External cable diameter	6.4 mm \pm 0.2 mm
Wire colors	white/orange-orange, white/green-green
External sheath, color	water blue RAL 5021
Transmission medium	Copper
Insulation resistance	$\geq 500 \text{ M}\Omega \cdot \text{km}$ (at 20 °C)
Conductor resistance	$\leq 290 \text{ }\Omega/\text{km}$ (at 20 °C)
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)
Working capacitance	45 nF (At 1 kHz)
Wave impedance	100 $\Omega \pm 5 \text{ }\Omega$ (At 100 MHz)
Signal runtime	5.3 ns/m
Nominal voltage, cable	$\leq 100 \text{ V}$
	300 V (Outer cable sheath)
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

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Line characteristics

Overall twist	Two pairs with two fillers to the core
Shielding	Aluminum-coated foil, 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	≤ 80N
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 ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)

Classifications

ETIM

ETIM 3.0	EC001262
ETIM 4.0	EC001262
ETIM 5.0	EC000830

UNSPSC

UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121616
UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616

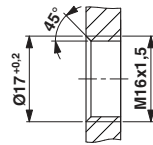
eCl@ss

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	27061801

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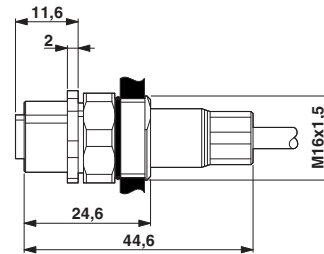
Drawings

Dimensioned drawing



Housing cutout for M16 fastening thread, mounting panel with thread

Dimensioned drawing



M12 flush-type connector