

Network cable - VS-M12MS-IP20-93E-LI/2,0 - 1406056

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 plug on RJ45 plug/IP20, line, length 2 m



Ethernet

Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 298 (PC-2011)
GTIN	 4 046356 476034
Custom tariff number	85444210
Country of origin	POLAND

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
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)
Ambient temperature (operation)	-5 °C ... 50 °C (cable, flexible installation)

Material data

Inflammability class according to UL 94	V2
Housing material	TPU/PA
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Degree of protection	IP67/IP20

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Electrical characteristics

Rated voltage (III/3)	60 V
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)

Line characteristics

Cable type	Ethernet
Cable structure	2x2xAWG26/7 PIMF
Conductor cross section	2x 2x 0.14 mm ²
AWG signal line	26
Conductor structure signal line	7x 0.15 mm
Core diameter including insulation	≤ 1.05 mm
External cable diameter	6.7 mm
Wire colors	white/orange-orange, white/green-green
External sheath, color	water blue RAL 5021
Transmission medium	Copper
Insulation resistance	≥ 5 GΩ*km
Conductor resistance	≤ 150 Ω/km
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)
Working capacitance	42 pF
Wave impedance	100 Ω ±5% (At 100 MHz)
Signal speed	0.72 c
Shield attenuation	60 dB (Up to 1000 MHz)
Coupling resistance	5.00 mΩ/m (At 10 MHz)
Nominal voltage, conductor	max. 125 V
Test voltage, conductor	1000 V
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Two pairs with two fillers to the core
Shielding	Tinned copper braided shield
Outer sheath, material	PUR
Material conductor insulation	Cell PE
Conductor material	Bare Cu litz wires
Cable weight	42 kg/km
Smallest bending radius, movable installation	34 mm
Tensile strength short-term/long-term	30N bei Installation / 10N nach Installation
Special properties	Free of substances which would hinder coating with paint or varnish
Flame resistance	complying with IEC 60332-2-2
Halogen-free	complying with IEC 60754-1/2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Microbe resistance as per VDE 0282 section 10
Other resistance	Hydrolysis resistance as per DIN 53504
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
Ambient temperature (operation)	-10 °C ... 50 °C (cable, flexible installation)

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Classifications

ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC000830

UNSPSC

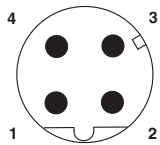
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501
UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501

eCl@ss

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

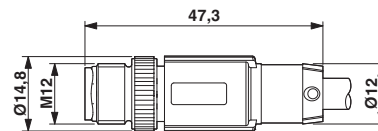
Drawings

Schematic diagram



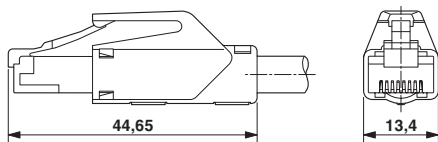
Pin assignment M12 male connector, 4-pos., D-coded, male side

Dimensioned drawing



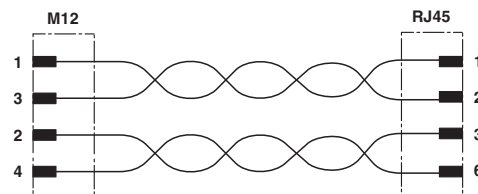
M12 x 1 male connector, straight, shielded

Dimensioned drawing



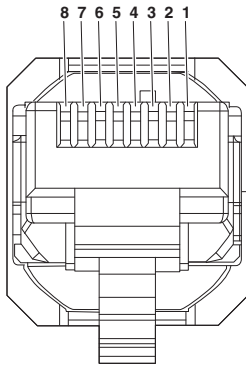
RJ45 plug connector, IP20

Circuit diagram



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Schematic diagram



Connector pin assignment plug RJ45

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