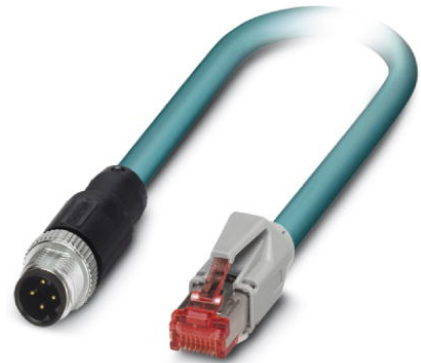


VS-MSD-IP20-93E/3,0


Order No.: 1403499



<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=1403499>

Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26, stranded (7-wire), RAL 5021 (aqua blue), M12 plug to RJ45 plug/IP20, line, length 3 m

Ethernet

Commercial data	
EAN	4  046356 656191
sales group	D514
Pack	1 Pcs.
Customs tariff	85444290
Gross weight in pieces	0.162 KG
Net weight per piece	0.162 KG

Product notes

WEEE/RoHS-compliant since: 03/15/2011



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Dimensions	
Length of cable	3 m
Ambient conditions	
Degree of protection	IP20 (RJ45 connector)
	IP67 (M12 connector)

General data

Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002) Ethernet CAT5e (TIA 568B:2001)
Surge voltage category	I
Pollution degree	3

Characteristics head 1

Head type	Plug Straight M12 / IP67
No. of positions (pin connector pattern)	4
Coding	D (Data)
Color	black
Material (component)	CuZn (Contact) Ni/Au (Contact surface) TPU GF (Contact carriers) TPU, hardly inflammable, self-extinguishing (Grip) Zinc die-cast, nickel-plated (Screw connection)
Shielded	Yes
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm
Ambient temperature (operation)	-25 °C ... 90 °C

Characteristics head 2

Head type	Plug Straight RJ45 / IP20
No. of positions (pin connector pattern)	4 (8)
Color	Gray
Material (component)	CuSn (Contact) Ni/Au (Contact surface) PC (Contact carriers) PA (Housing)
Shielded	Yes
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-40 °C ... 60 °C

Cable

Cable type	PUR ETHERNET 2x2 FLEX
Cable type (abbreviation)	93E

UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
	Ethernet CAT5e (TIA 568B), 100 Mbps
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
Wire colors	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	70 %
External sheath, color	water blue RAL 5021
Outer sheath thickness	1.2 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 short-term/long-term	≤ 80N
Cable weight	42 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Conductor resistance	≤ 290 Ω/km
Cable capacity	approx. 45 nF/km (At 1 kHz)
Wave impedance	100 Ω ±5 Ω (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	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)
Ambient temperature (installation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

Certificates / Approvals



Certification

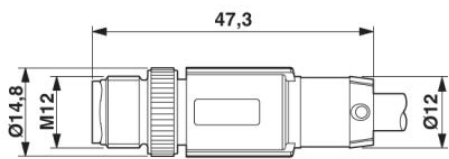
GOST

Certifications applied for:

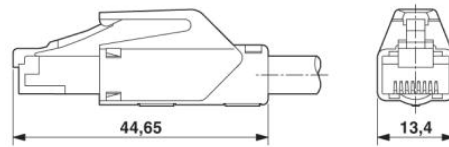
Certification Ex:

Drawings

Dimensioned drawing

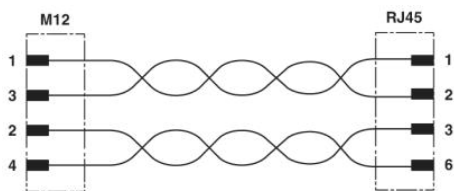


Plug, M12 x 1, straight, shielded

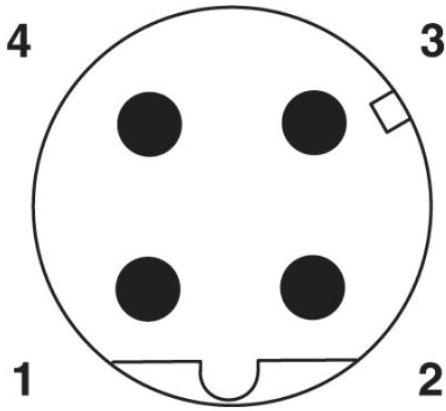


RJ45 connector, IP20

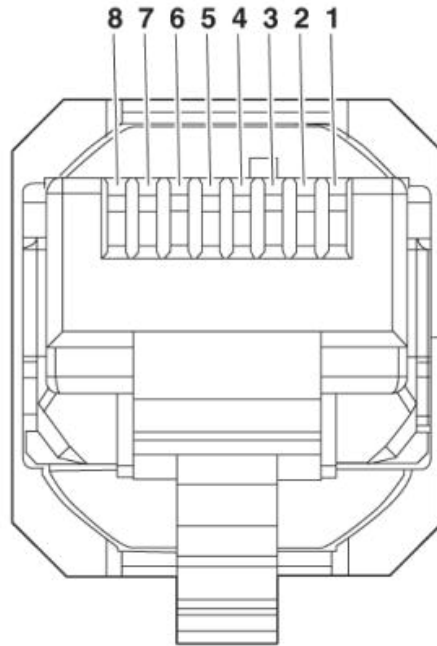
Circuit diagram



Schematic diagram



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



Connector pin assignment plug RJ45
PUR ETHERNET 2x2 FLEX [93E]



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