

Network cable - VS-MSD-MSD-93E/1,0 - 1403502


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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (sea blue), M12 plug to M12 plug, line, length 1 m

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 656214
GTIN	4046356656214

Technical data

Dimensions

Length of cable	1 m
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Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 60 °C (cable, flexible installation)

General data

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Overvoltage category	II
Degree of pollution	3
Degree of protection	IP65/IP67/IP69K
Transmission characteristics (category)	CAT5

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Technical data

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

Standards and Regulations

Flammability rating according to UL 94	V0
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Cable

Cable type	Ethernet
Cable type (abbreviation)	93E
Signal type/category	Ethernet CAT5 (IEC 11801), 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	1 mm -0.2 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	Plastic-coated aluminum foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	water blue RAL 5021
External cable diameter D	5.75 mm ±0.15 mm
Smallest bending radius, fixed installation	30 mm (cable, fixed installation)
Smallest bending radius, movable installation	78 mm (cable, flexible installation)
Tensile strength GRP	≤ 50 N (temporary) ≤ 10 N (Permanent)
Cable weight	43 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foam-Skin PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 5 GΩ*km
Conductor resistance	≤ 284 Ω/km
Cable capacity	nom. 48 nF/km (At 800 Hz)
Wave impedance	100 Ω ±15 % (at 1 ... 100 MHz)
Near end crosstalk attenuation (NEXT)	66 dB/m (with 1 MHz) 57 dB/m (at 4 MHz) 52 dB/m (at 10 MHz) 50 dB/m (at 16 MHz)

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Cable

	47 dB/m (at 20 MHz)
	45 dB/m (at 31.25 MHz)
	40 dB/m (at 62.5 MHz)
	36 dB/m (at 100 MHz)
Attenuation	0.028 dB/m (with 1 MHz)
	0.06 dB/m (at 4 MHz)
	0.085 dB/m (at 10 MHz)
	0.115 dB/m (at 16 MHz)
	0.128 dB/m (at 20 MHz)
	0.162 dB/m (at 31.25 MHz)
	0.23 dB/m (at 62.5 MHz)
	0.29 dB/m (at 100 MHz)
Crosstalk attenuation (ACR)	6.57 dB/m (with 1 MHz)
	5.64 dB/m (at 4 MHz)
	5.12 dB/m (at 10 MHz)
	4.89 dB/m (at 16 MHz)
	4.57 dB/m (at 20 MHz)
	4.34 dB/m (at 31.25 MHz)
	3.77 dB/m (at 62.5 MHz)
	3.31 dB/m (at 100 MHz)
Signal speed	0.77 c
Signal runtime	4.3 ns/m
Interference suppression	approx. 65 dB (at 30 MHz)
Coupling resistance	≤ 5.00 mΩ/m (at 20 MHz)
Nominal voltage, cable	50 V _{rms}
	125 V (Peak value, not for high-power applications)
Test voltage Core/Core	1000 V _{rms}
Test voltage Core/Shield	500 V _{rms}
Flame resistance	according to VDE 0482 Part 265-2-1
	according to IEC 332-1
Ambient temperature (installation)	-5 °C ... 60 °C

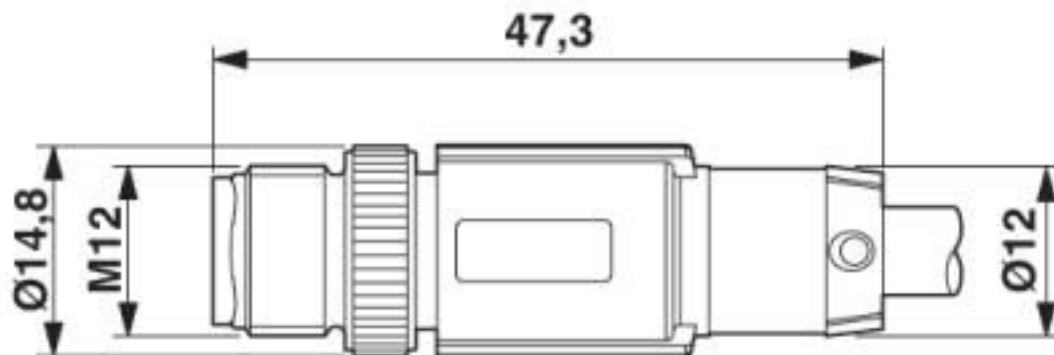
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

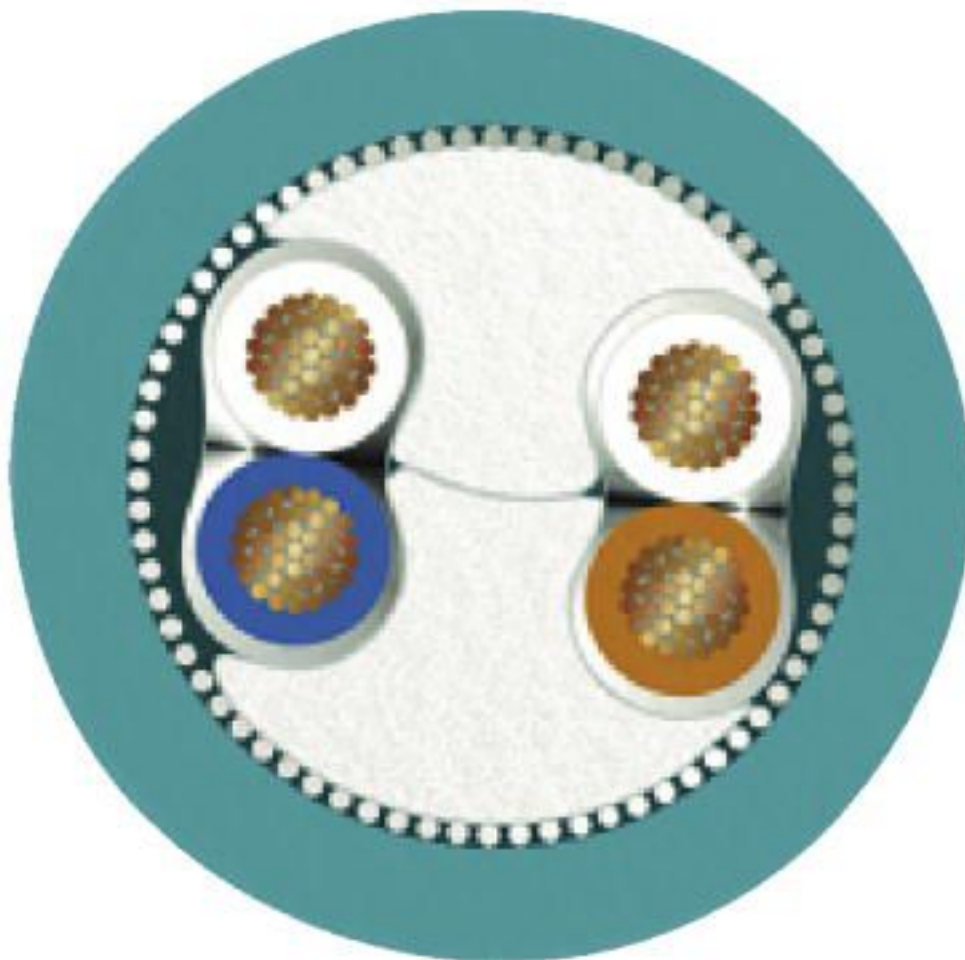
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Dimensional drawing



Plug, M12 x 1, straight, shielded

Cable cross section



Ethernet [93E]

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Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 4.0	EC000830
ETIM 5.0	EC001855
ETIM 6.0	EC001855

UNSPSC

UNSPSC 6.01	26121609
UNSPSC 7.0901	26121609
UNSPSC 11	26121609
UNSPSC 12.01	26121609
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501

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