

Network cable - VS-M12MS-M12MS-93E-LI/2,0 - 1406632

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

RoHS

Ethernet

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 476171
GTIN	4046356476171
Weight per Piece (excluding packing)	140.000 g
Custom tariff number	85444210
Country of origin	Poland

Technical data

Dimensions

Length of cable	2 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

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Technical data

General data

Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Overvoltage category	II
Degree of pollution	3
Alternative short product description	Ethernet cable
Contact material	CuSn
Contact carrier material	PA 6.6
Contact surface material	Ni/Au
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

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)

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Cable

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)
	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

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Technical data

Cable

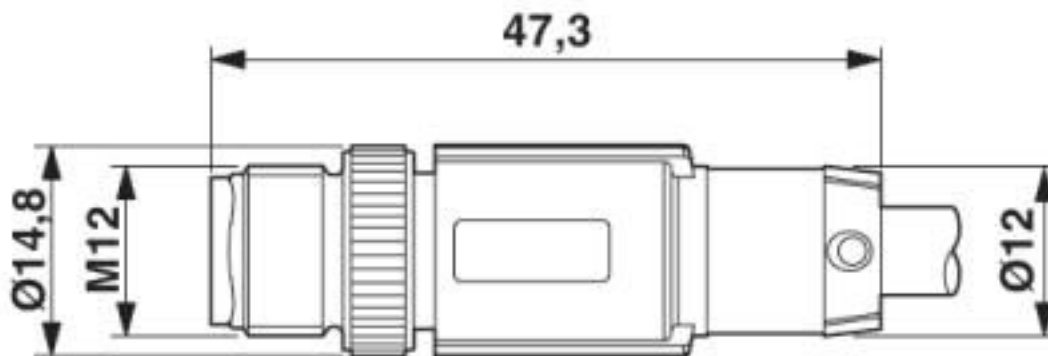
Interference suppression	approx. 65 dB (at 30 MHz)
Coupling resistance	$\leq 5.00 \text{ m}\Omega/\text{m}$ (at 20 MHz)
Nominal voltage, cable	50 V _{rms}
	125 V (Peak value, not for high-power applications)
Test voltage Core/Core	1000 V _{rms}
Test voltage Core/Shield	500 V _{rms}
Flame resistance	according to VDE 0482 Part 265-2-1
	according to IEC 332-1
Ambient temperature (installation)	-5 °C ... 60 °C

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

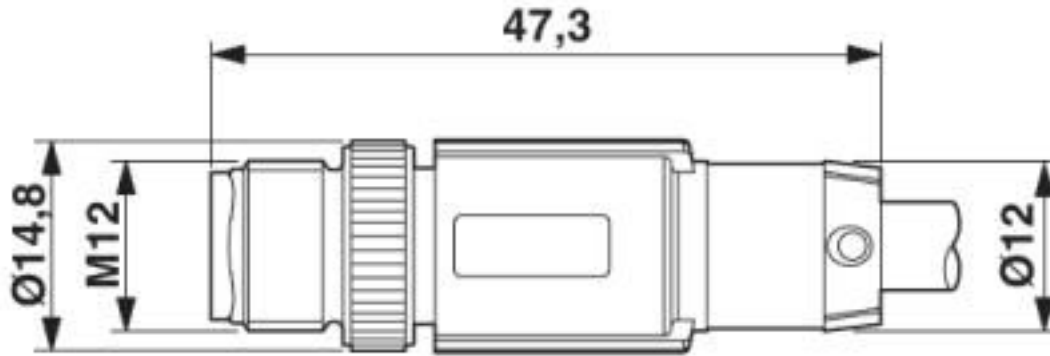
Dimensional drawing



Plug, M12 x 1, straight, shielded

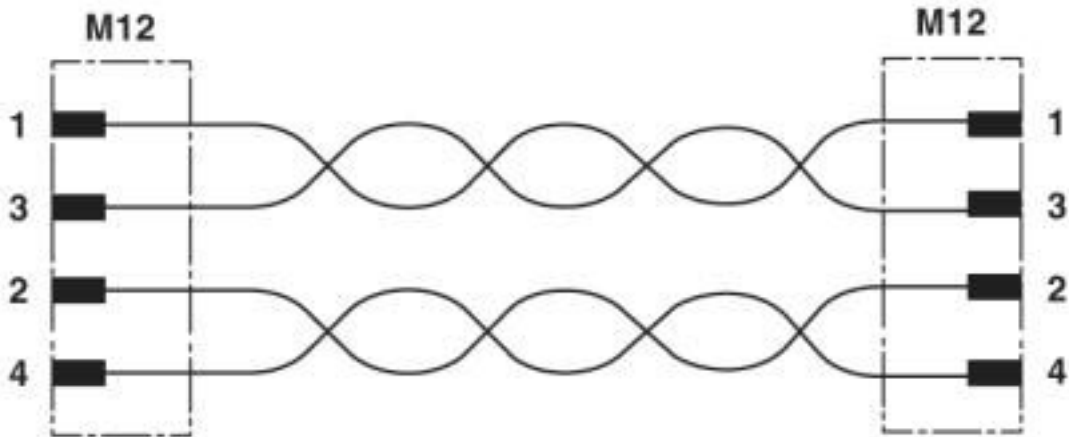
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Dimensional drawing



Plug, M12 x 1, straight, shielded

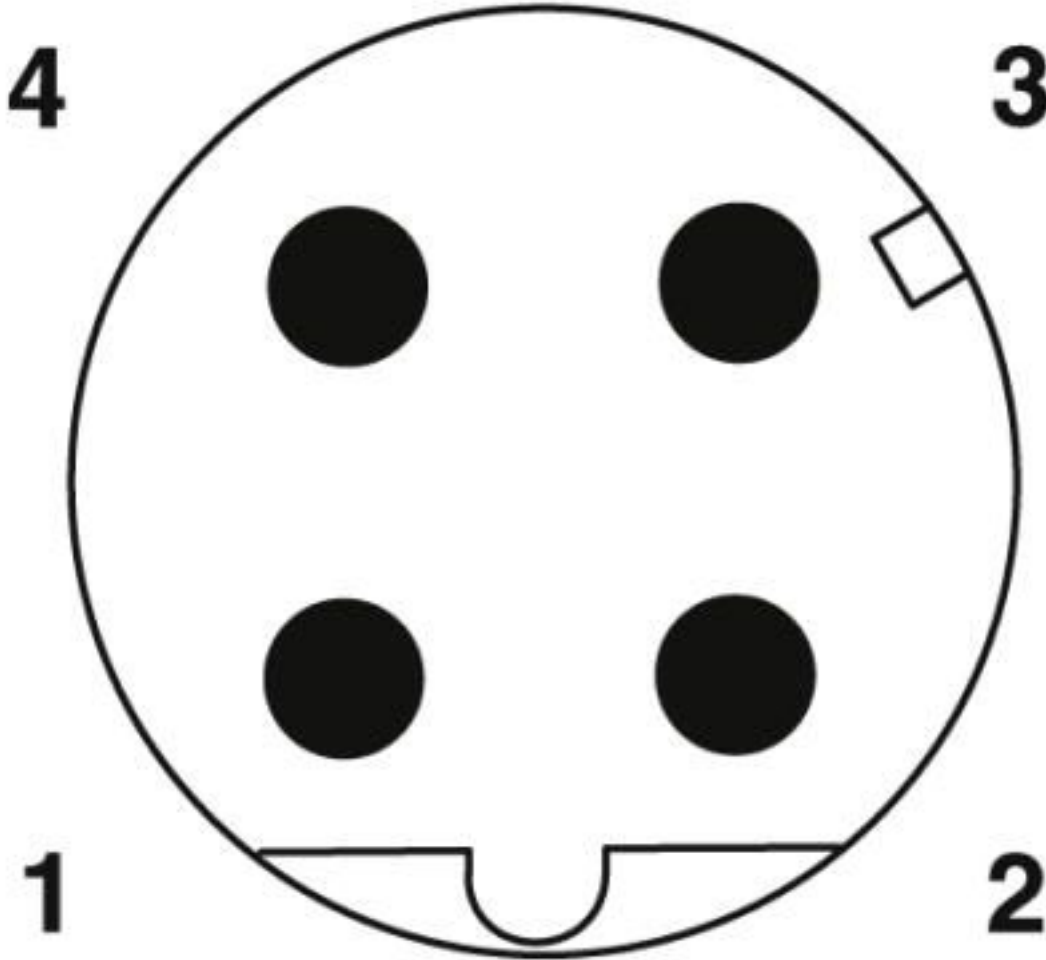
Circuit diagram



Contact assignment of M12 connector/socket

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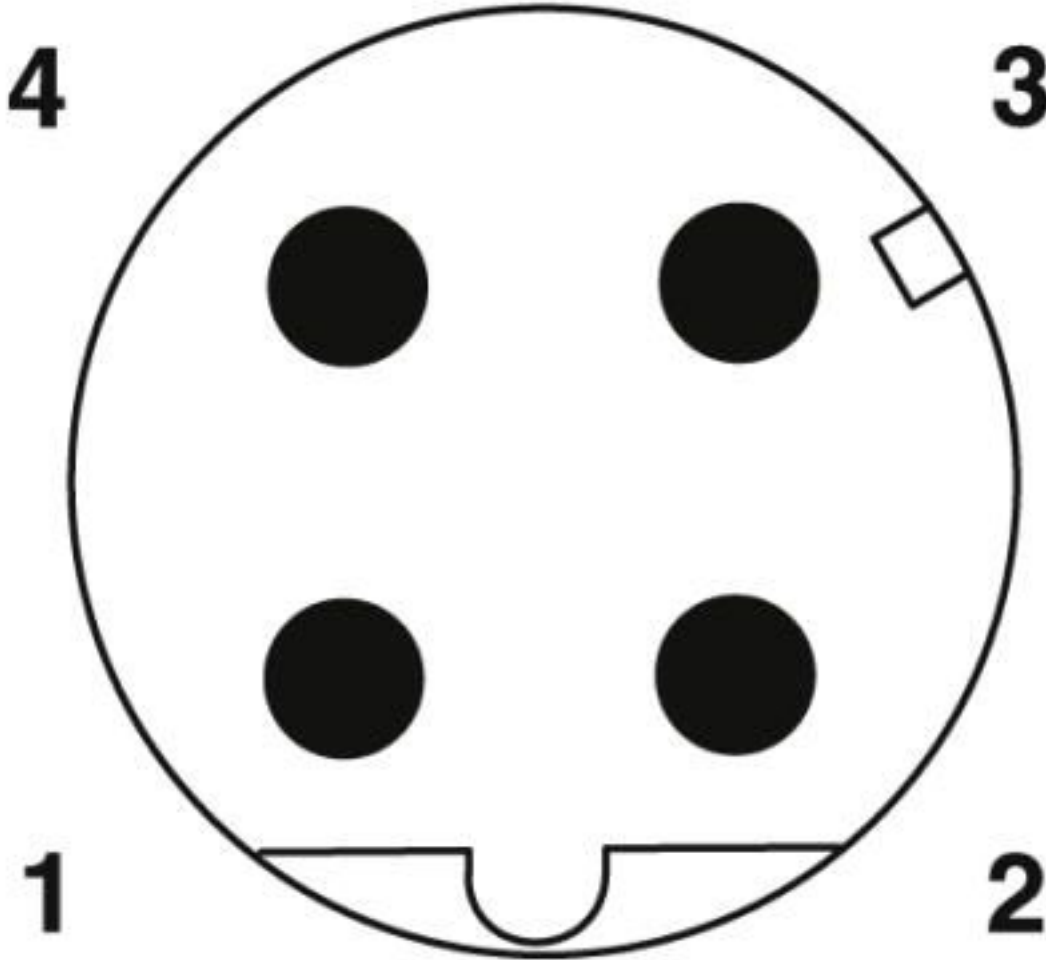
Schematic diagram



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

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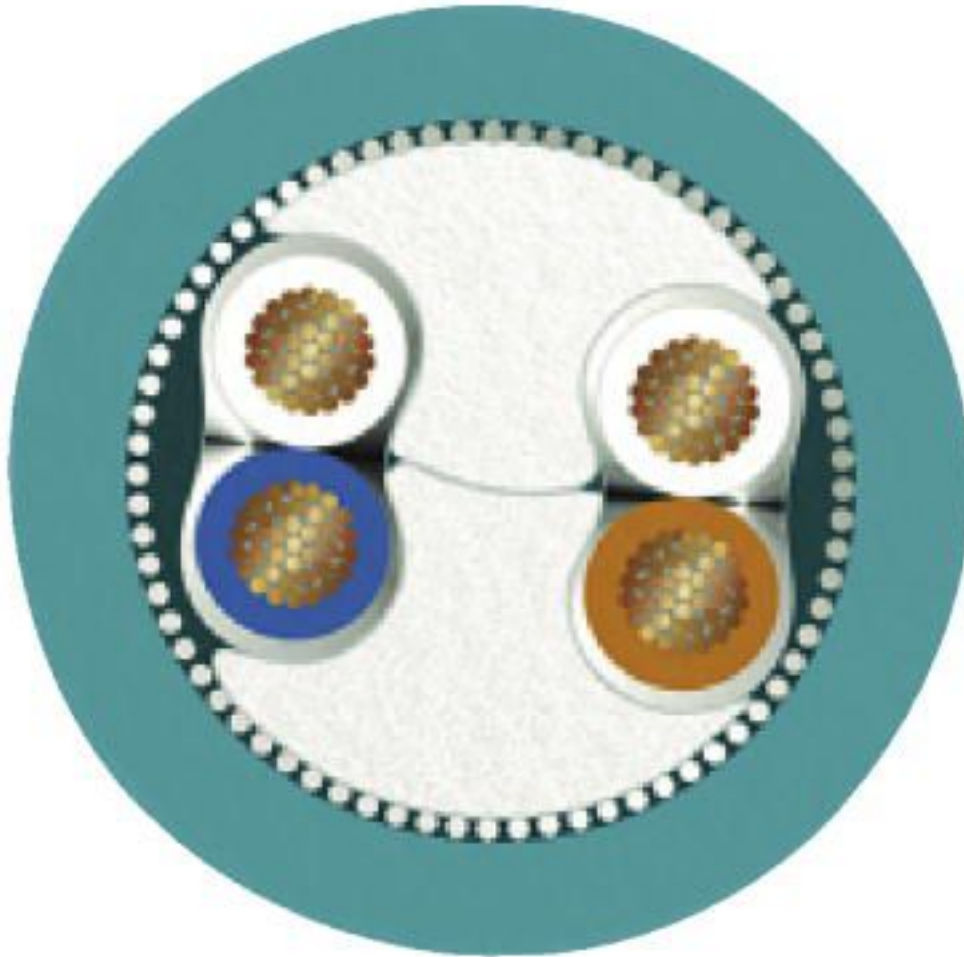
Schematic diagram



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

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Cable cross section



Ethernet [93E]

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	27060308

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Classifications

eCl@ss

eCl@ss 9.0	27060308
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ETIM

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

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	26121604
UNSPSC 19.0	26121604

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