VS-M12MS-IP20-LI-93P/15,0 - Network cable

1403653

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Network cable, Ethernet CAT5 (100 Mbps), 4-position, PVC, water blue RAL 5021, Plug straight M12 SPEEDCON, coding: D, on Plug straight RJ45, cable length: 15 m

Commercial data

Item number	1403653
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF04
Product key	AF1CJI
GTIN	4046356662666
Weight per piece (including packing)	762.2 g
Weight per piece (excluding packing)	747.7 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Number of positions	4
Shielded	yes
Coding	D

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps

Signaling

Status display	no
Status display present	no

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	1 A
Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

Material specifications

Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Connector

Connection 1

Locking type	SPEEDCON

Connection 2

Type	Plug straight RJ45

Cable/line

Cable length	15 m

Ethernet [93P]

UL AWM Style	2654 (90 °C / 300 V)
Number of positions	4

Shielded	yes
Cable type	Ethernet [93P]
Conductor structure	2x2xAWG26/7, SF/UTP
Signal runtime	0.4 ns/m
Signal speed	0.6 c
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	2x 2x 0.14 mm²
Wire diameter incl. insulation	0.98 mm ±0.05 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	white/orange-orange, white/green-green
Thickness, outer sheath	≥ 1.00 mm
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
Optical shield covering	85 %
Max. conductor resistance	≤ 140 Ω/km
Insulation resistance	> 5 GΩ*km
Wave impedance	100 Ω ±5 % (at 100 MHz)
Working capacitance	< 56 nF
Nominal voltage, cable	≤ 300 V AC
	≤ 450 V DC
Test voltage Core/Core	2500 V DC
Smallest bending radius, movable installation	25 mm
Tensile strength	≤ 40 N
Shield attenuation	32.00 dB (up to 100 MHz)
Flame resistance	According to VW-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Resistant to cleaning agents/disinfectants (According to ECOLAB F&E/P3-E No. 40-1)
Ambient temperature (operation)	-40 °C ... 90 °C
Ambient temperature (installation)	0 °C ... 50 °C

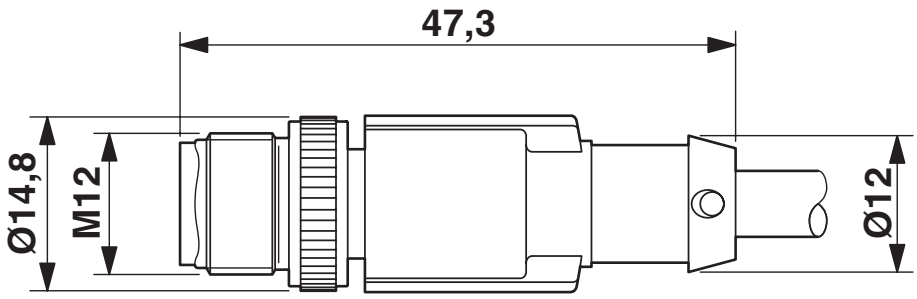
Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

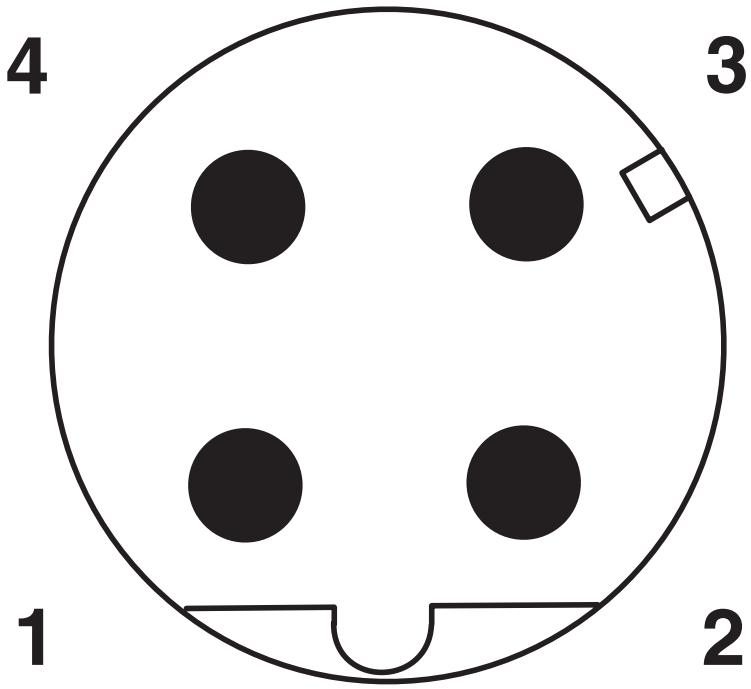
Drawings

Dimensional drawing



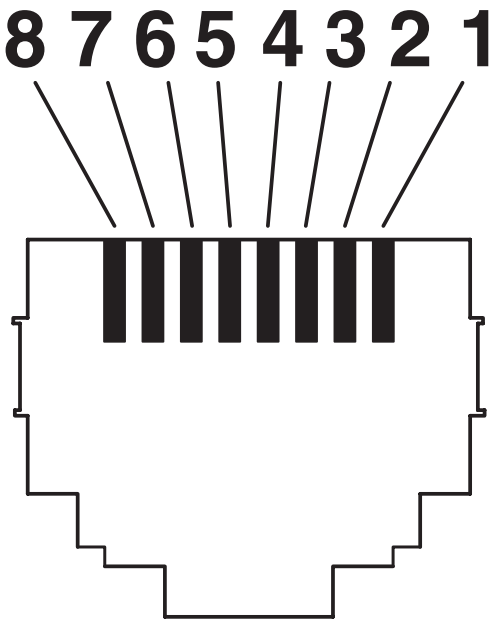
Plug, M12 x 1, straight, shielded

Schematic diagram



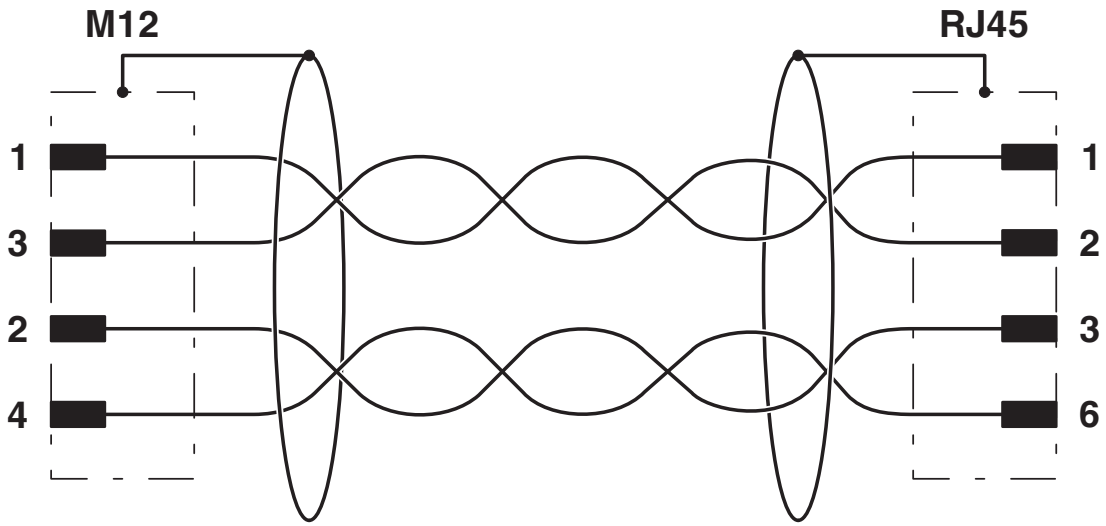
Pin assignment M12 male connector, 4-pos., D-coded, male side

Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



Contact assignment of the M12 and RJ45 plug

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 10.0	EC002599

UNSPSC

UNSPSC 21.0	26121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)

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