

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



1403653

<https://www.phoenixcontact.com/us/products/1403653>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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



1403653

<https://www.phoenixcontact.com/us/products/1403653>

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

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



1403653

<https://www.phoenixcontact.com/us/products/1403653>

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 mm ²
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

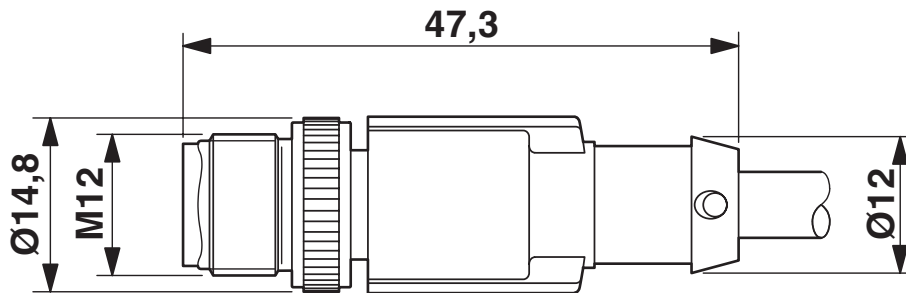
VS-M12MS-IP20-LI-93P/15,0 - Network cable

1403653

<https://www.phoenixcontact.com/us/products/1403653>

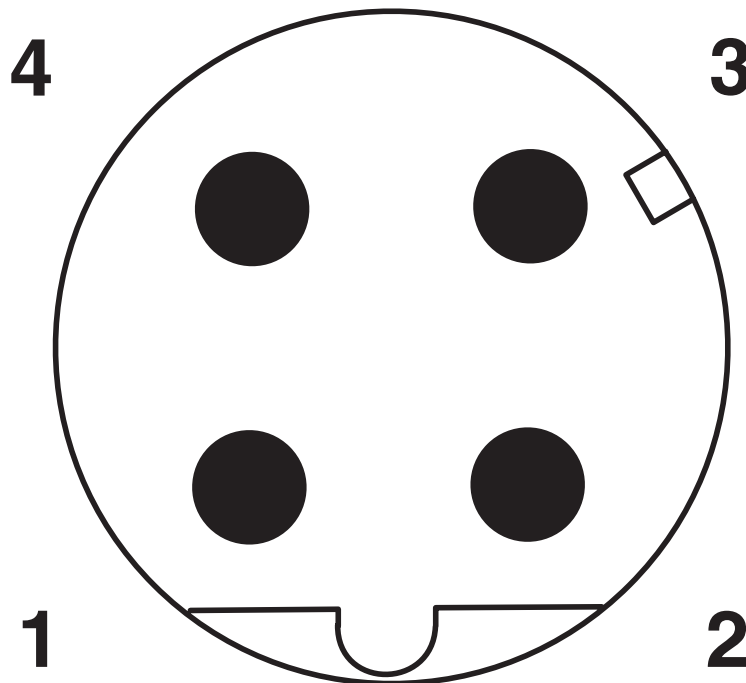
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram

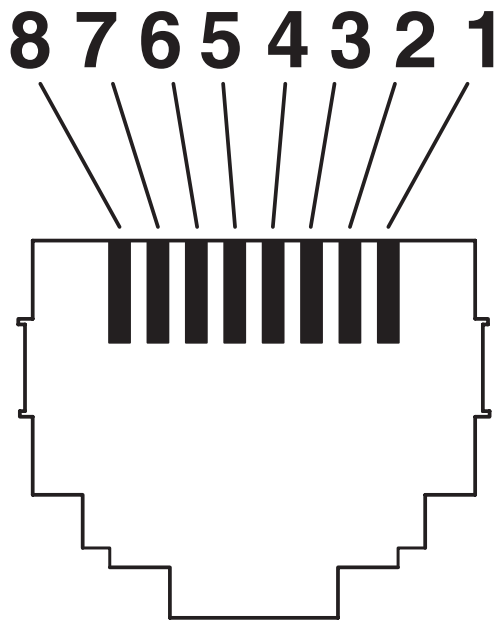


Pin assignment M12 male connector, 4-pos., D-coded, male side

1403653

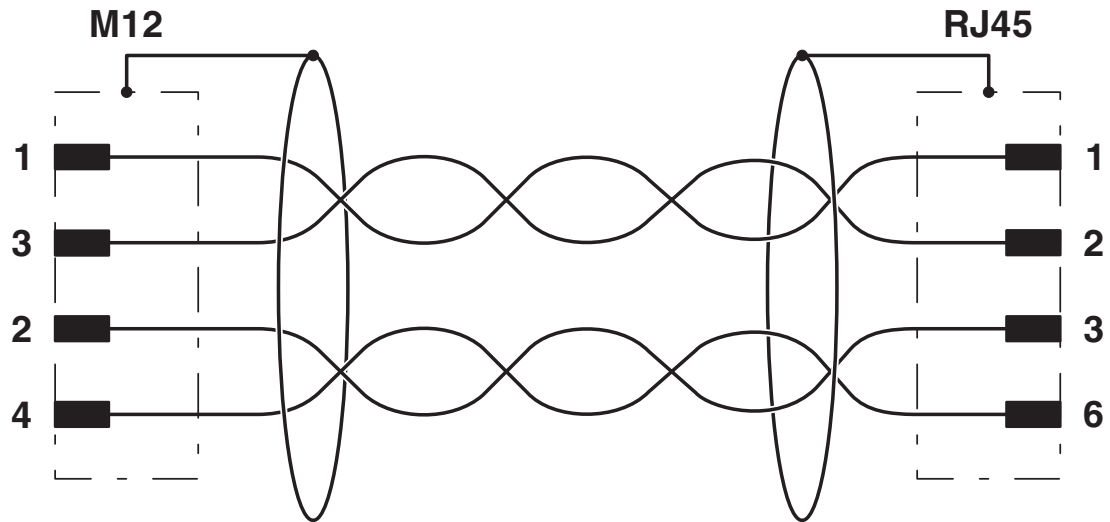
<https://www.phoenixcontact.com/us/products/1403653>

Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



Contact assignment of the M12 and RJ45 plug

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



1403653

<https://www.phoenixcontact.com/us/products/1403653>

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

1403653

<https://www.phoenixcontact.com/us/products/1403653>

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)
-------------------------------------	--

EF3.1 Climate Change

CO2e kg	7.718 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com