

# VS-MSD-MSD-93B-LI/15,0 - Network cable



1404308

<https://www.phoenixcontact.com/us/products/1404308>

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.



Assembled PROFINET cable, CAT5e, shielded, star-quad, 22 AWG stranded (7-wire), RAL 6018 (yellow-green), M12 plug to M12 plug, line, length 15 m

## Commercial data

Item number	1404308
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF1CJN
GTIN	4046356690140
Weight per piece (including packing)	1,048.2 g
Weight per piece (excluding packing)	1,048.2 g
Country of origin	PL

# VS-MSD-MSD-93B-LI/15,0 - Network cable



1404308

<https://www.phoenixcontact.com/us/products/1404308>

## Technical data

### Product properties

Product type	Data cable preassembled
Number of positions	4
No. of cable outlets	1

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Electrical properties

Nominal voltage $U_N$	48 V AC
Nominal current $I_N$	4 A
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
-----------------------------	------------

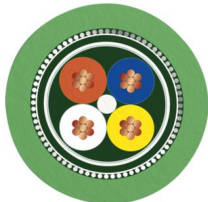
### Material specifications

Flammability rating according to UL 94	V0
--	----

### Cable/line

Cable length	15 m
--------------	------

### PROFINET PVC stranded CAT5 [93B]

Dimensional drawing	
Cable weight	67 kg/km
UL AWM Style	21694
Number of positions	4
Shielded	yes
Cable type	PROFINET PVC stranded CAT5 [93B]
Conductor structure	1x4xAWG22/7, SF/TQ
Signal runtime	5.3 ns/m
Signal speed	0.66 c
Conductor structure signal line	7x 0.25 mm

# VS-MSD-MSD-93B-LI/15,0 - Network cable



1404308

<https://www.phoenixcontact.com/us/products/1404308>

AWG signal line	22
Conductor cross-section	4x 0.34 mm <sup>2</sup>
Wire diameter incl. insulation	1.55 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white, yellow, blue, orange
Thickness, outer sheath	approx. 0.90 mm
Overall twist	Star quad
Optical shield covering	85 %
Insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 20.00 mΩ/m (at 10 MHz)
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Smallest bending radius, fixed installation	20 mm
Smallest bending radius, movable installation	46 mm
Near end crosstalk attenuation (NEXT)	80 dB (with 1 MHz)
	76 dB (at 4 MHz)
	70 dB (at 10 MHz)
	65 dB (at 16 MHz)
	63 dB (at 20 MHz)
	60 dB (at 31.25 MHz)
	55 dB (at 62.5 MHz)
	50 dB (at 100 MHz)
Shield attenuation	2.1 dB (with 1 MHz)
	4 dB (at 4 MHz)
	6.3 dB (at 10 MHz)
	8 dB (at 16 MHz)
	9 dB (at 20 MHz)
	11.4 dB (at 31.25 MHz)
	16.5 dB (at 62.5 MHz)
	21.3 dB (at 100 MHz)
Flame resistance	according to UL 1685 (CSA FT 4)
Resistance to oil	Resistant to oil to a limited extent
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (Cable, flexible installation)

# VS-MSD-MSD-93B-LI/15,0 - Network cable



1404308

<https://www.phoenixcontact.com/us/products/1404308>

Ambient temperature (installation)

-20 °C ... 60 °C

Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram

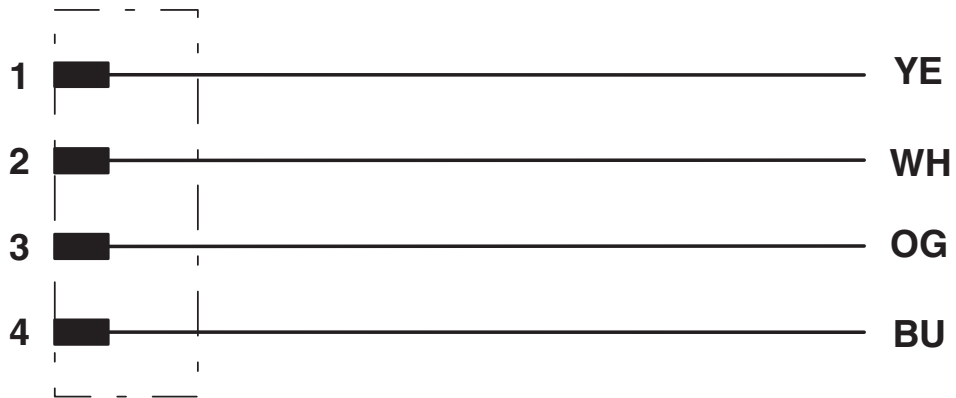


Pin assignment M12 male connector, 4-pos., D-coded, male side

1404308

<https://www.phoenixcontact.com/us/products/1404308>

## Circuit diagram



Contact assignment of the M12 connector

# VS-MSD-MSD-93B-LI/15,0 - Network cable



1404308

<https://www.phoenixcontact.com/us/products/1404308>

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### UNSPSC

UNSPSC 21.0	26121604
-------------	----------

# VS-MSD-MSD-93B-LI/15,0 - Network cable



1404308

<https://www.phoenixcontact.com/us/products/1404308>

## 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.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

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](mailto:info@phoenixcon.com)