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Network cable - VS-M12MS-OE-94C-LI/2,0

1412794

https://www.phoenixcontact.com/gb/products/1412794

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Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR, Plug straight M12 / IP67, coding: A, on free cable end, cable length: 2 m

Commercial Data

Item number	1412794
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1CMI
Product Key	BF1CMI
Catalog Page	Page 303 (PC-2011)
GTIN	4046356475679
Weight per Piece (including packing)	140.9 g
Weight per Piece (excluding packing)	132.1 g
Customs tariff number	85444210
Country of origin	PL

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Technical Data

Product properties

Product type	Data cable preassembled
Number of positions	8
Application	Standard
No. of cable outlets	1
Shielded	yes
Cable outlet	straight

Insulation characteristics

Degree of pollution	3

Interfaces

Signal type/category	Ethernet CAT5 (on the basis of IEC 11801), 1 Gbps

Electrical properties

Nominal voltage U_N	30 V AC
	30 V DC
Transmission medium	Copper

Material specifications

Flammability rating according to UL 94	HB

Connector

Insertion/withdrawal cycles	≥ 100

Connection 1

Type	Plug straight M12 / IP67
Coding type	A (Standard)
Handle color	black
Degree of protection	IP67

Connection 2

Type	free cable end

Cable / line

Cable length	2 m
Cable weight	57 kg/km
UL AWM Style	20963 (80°C/30 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet drag chain CAT5, 4-pair [94C]
Signal runtime	5.3 ns/m
Conductor structure signal line	19x 0.10 mm

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AWG signal line	26
Conductor cross section	4x 2x 0.14 mm²
Wire diameter incl. insulation	1 mm
External cable diameter	6.9 mm +0.1 mm ... 0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Thickness, outer sheath	0.85 mm
Twisted pairs	2 cores to the pair
Overall twist	Four pairs and four fillers to the core
Optical shield covering	90 %
Insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Loop resistance	≤ 290.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Cable capacity	approx. 50 nF/km (at 1 kHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Max. bending cycles	5000000
Tensile strength	≤ 100 N
Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)
	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)
	45.8 dB (at 20 MHz)
	42.9 dB (at 31.25 MHz)
	38.4 dB (at 62.5 MHz)
	35.3 dB (at 100 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)
	39.9 dB (at 31.25 MHz)
	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
Return loss (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)

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	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Shield attenuation	3.2 dB (with 1 MHz)
	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.6 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
Resistance to oil	according to EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C
Cable weight	70 kg/km
Cable type	Ethernet
Signal type/category	Ethernet CAT5 (on the basis of IEC 11801), 1 Gbps
Cable structure	4x2xAWG26/19; S/UTP
External cable diameter	7.70 mm
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Single wire, color	White-blue, white-orange, white-green, white-brown
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Smallest bending radius, fixed installation	39 mm (cable, fixed installation)
Smallest bending radius, movable installation	39 mm (Cable, flexible installation)
Smallest bending radius, fixed installation	39 mm (cable, fixed installation)
Smallest bending radius, movable installation	39 mm (Cable, flexible installation)

Ambient conditions

Degree of protection	IP65
	IP67
Degree of protection	IP65/IP67/IP69K

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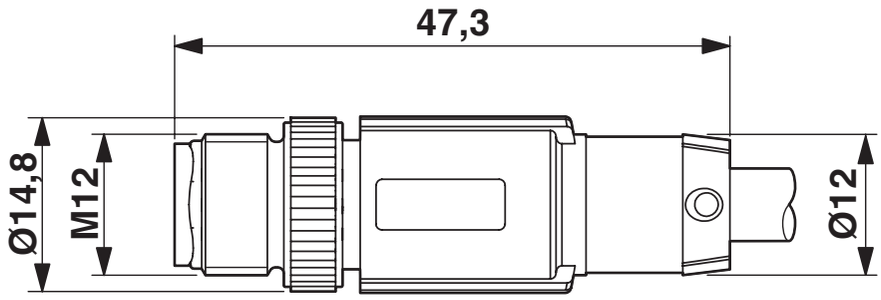
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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

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Approvals

EAC
Approval ID: RU D-DE.HB35.B.00385

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Classifications

ECLASS

ECLASS-9.0	27060308
ECLASS-10.0.1	27060308
ECLASS-11.0	27060307

ETIM

ETIM 8.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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