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Network cable - VS-M12MSS-OE-94F/15,0/10G - 1440575

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Assembled Ethernet cable, CAT6_A, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 plug on free conductor end, length 15 m



Key commercial data

Packing unit	1 pc
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	15 m
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Ambient conditions

Degree of protection	IP65
	IP67

General data

Rated current at 40°C	0.5 A
Rated voltage	48 V
Number of positions	8
Signal type/category	Ethernet CAT6 _A
Surge voltage category	II
Pollution degree	3

Characteristics head 1

Head type	Plug Straight M12 SPEEDCON / IP65
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Technical data

Characteristics head 1

No. of positions (pin connector pattern)	8 (8)
Coding	X (Data)
Color	black
Shielded	Yes

Characteristics head 2

Head type	free cable end
No. of positions (pin connector pattern)	8
Shielded	Yes

Cable

Cable type	Ethernet 10 Gbit
Cable type (abbreviation)	94F
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT6 _A , 10 Gbps
Cable structure	4x2xAWG26/7; S/FTP
Conductor cross section	4x 2x 0.14 mm ²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	1.04 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined foil
Overall twist	4 pairs for core
Shielding	Tinned copper braided shield
Optical shield covering	70 %
External sheath, color	water blue RAL 5021
Outer sheath thickness	0.65 mm
External cable diameter D	6.4 mm ±0.2 mm
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Tensile strength short-term/long-term	≤ 100 N
Cable weight	42 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Conductor resistance	≤ 290 Ω/km

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Technical data

Cable

Wave impedance	100 Ω $\pm$ 5 Ω (at 100 MHz)
Signal runtime	5.13 ns/m
Shield attenuation	$\geq$ 80 dB (at 30 ... 100 MHz)
Nominal voltage, cable	$\leq$ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	According to IEC 60332-1-2
Halogen-free	According to IEC 60754-1
Resistance to oil	in accordance with DIN 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
Ambient temperature (storage/transport)	-20 °C ... 80 °C

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27060307
eCl@ss 6.0	27060390
eCl@ss 7.0	27060390
eCl@ss 8.0	27060390

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	26121609
UNSPSC 7.0901	26121609
UNSPSC 11	26121609
UNSPSC 12.01	26121609
UNSPSC 13.2	26121609

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Approvals

Approvals

Approvals

UL Recognized

Ex Approvals

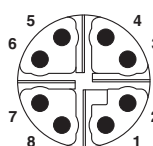
Approvals submitted

Approval details

UL Recognized 	
Nominal current I _N	0.5 A
Nominal voltage U _N	30 V

Drawings

Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

Cable cross section



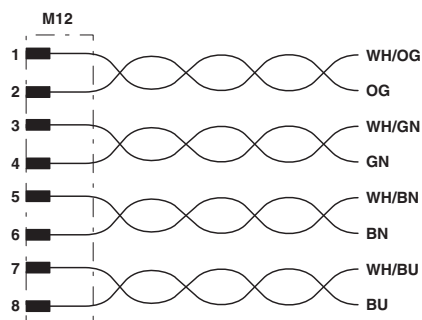
Ethernet 10 Gbit [94F]

<https://www.phoenixcontact.com/us/products/1440575>

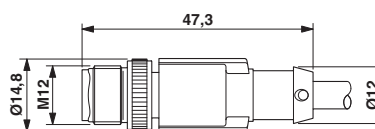


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Circuit diagram



Dimensioned drawing



Dimens. drawing: M12 connectors

Contact assignment of the M12 plugs