

Network cable - VS-M12MSS-IP20-94F/20,0/10G - 1440656

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Assembled Ethernet cable, CAT6_A, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 connector on RJ45 connector, SPEEDCON, length 20 m



Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 304 (PC-2011)
GTIN	 4 046356 504577
Custom tariff number	85444290
Country of origin	POLAND

Technical data

General data

Rated current at 40°C	0.5 A
Rated voltage	48 V
Number of positions	8
Length of cable	20 m

General characteristics

Coding	X - data
Signal type/category	Ethernet CAT6 _A
Surge voltage category	I
Pollution degree	1
Degree of protection	IP20
Insertion/withdrawal cycles	≥ 100

Conductor data

Cable type	Ethernet
Cable type (abbreviation)	94F

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Technical data

Conductor data

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
Thickness, insulation	0.28 mm (signal line)
Thickness, insulation	0.65 mm (Outer cable sheath)
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 polyester foil
Overall twist	4 pairs
Shielding	Tinned copper braided shield
Optical shield covering	70 %
External sheath, color	water blue RAL 5021
External cable diameter D	6.4 mm ± 0.2 mm
Smallest bending radius, fixed installation	25.6 mm
Smallest bending radius, movable installation	51.2 mm
Cable weight	43 kg/km
Outer sheath, material	PUR
Material conductor insulation	PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 500 MΩ*km (at 20 °C)
Conductor resistance	≤ 290 Ω/km (at 20 °C)
Transmission characteristics (category)	CAT6 _A
Wave impedance	100 Ω ± 5 Ω (At 100 MHz)
Signal runtime	5.3 ns/m
Shield attenuation	≥ 80 dB (At 30 ... 100 MHz)
Nominal voltage, conductor	≤ 100 V (at 20 °C)
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	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 ... 70 °C (cable, fixed installation)
Ambient temperature (operation)	-10 °C ... 50 °C (cable, flexible installation)

Classifications

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830
ETIM 4.0	EC002599

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Classifications

ETIM

ETIM 5.0	EC000830
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UNSPSC

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

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

Approvals

Approvals


Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

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

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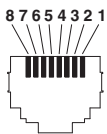
Approvals

cUL Listed	
Nominal current I _N	0.5 A
Nominal voltage U _N	30 V

cULus Listed	
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Drawings

Schematic diagram



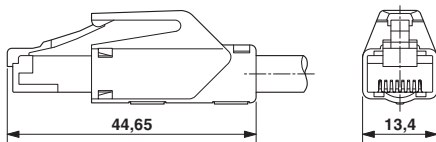
Connector pin assignment plug RJ45

Cable cross section



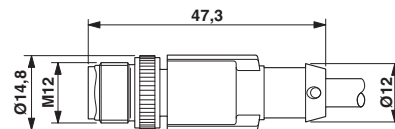
Ethernet [94F]

Dimensioned drawing



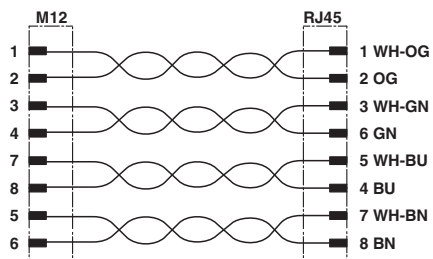
RJ45 connector dimensional drawing

Dimensioned drawing



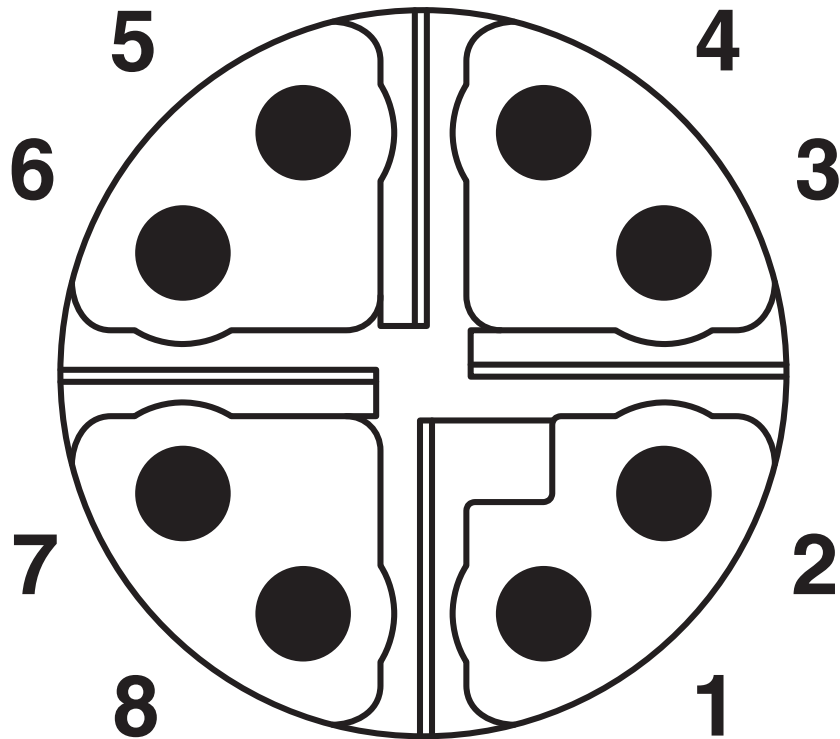
M12 connector dimensional drawing

Circuit diagram



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Schematic diagram





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