

VS-M12MR-IP20-93E-X/1,0 - Network cable



1401430

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), M12 plug to RJ45 plug/IP20, crossover, length: 1 m

Commercial data

Item number	1401430
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CJI
GTIN	4046356555296
Weight per piece (including packing)	75.6 g
Weight per piece (excluding packing)	75.6 g
Country of origin	PL

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Technical data

Product properties

Product type	Data cable preassembled
Number of positions	4
Number of slots	1

Insulation characteristics

Degree of pollution	3
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Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

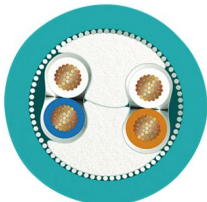
Material specifications

Flammability rating according to UL 94	V2
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Cable/line

Cable length	1 m
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Ethernet [93E]

Dimensional drawing	
Cable weight	43 kg/km
Number of positions	4
Shielded	yes
Cable type	Ethernet [93E]
Conductor structure	2x2xAWG26/7, SF/UTP
Signal runtime	4.3 ns/m
Signal speed	0.77 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	1 mm -0.2 mm
External cable diameter	5.75 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021

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Conductor material	Bare Cu litz wires
Material wire insulation	Foam-Skin PE
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Optical shield covering	85 %
Max. conductor resistance	$\leq 284 \Omega/\text{km}$
Insulation resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$
Coupling resistance	$\leq 5.00 \text{ m}\Omega/\text{m}$ (at 20 MHz)
Wave impedance	$100 \Omega \pm 15 \%$ (at 1 ... 100 MHz)
Cable capacity	nom. 48 nF/km (At 800 Hz)
Nominal voltage, cable	50 V _{rms}
	125 V (Peak value, not for high-power applications)
Test voltage Core/Core	1000 V _{rms}
Test voltage Core/Shield	500.00 V _{rms}
Smallest bending radius, fixed installation	30 mm (cable, fixed installation)
Smallest bending radius, movable installation	78 mm (Cable, flexible installation)
Tensile strength	$\leq 50 \text{ N}$ (temporary)
	$\leq 10 \text{ N}$ (Permanent)
Near end crosstalk attenuation (NEXT)	66 dB/m (with 1 MHz)
	57 dB/m (at 4 MHz)
	52 dB/m (at 10 MHz)
	50 dB/m (at 16 MHz)
	47 dB/m (at 20 MHz)
	45 dB/m (at 31.25 MHz)
	40 dB/m (at 62.5 MHz)
	36 dB/m (at 100 MHz)
Crosstalk attenuation (ACR)	6.57 dB/m (with 1 MHz)
	5.64 dB/m (at 4 MHz)
	5.12 dB/m (at 10 MHz)
	4.89 dB/m (at 16 MHz)
	4.57 dB/m (at 20 MHz)
	4.34 dB/m (at 31.25 MHz)
	3.77 dB/m (at 62.5 MHz)
	3.31 dB/m (at 100 MHz)
Shield attenuation	0.028 dB/m (with 1 MHz)
	0.06 dB/m (at 4 MHz)
	0.085 dB/m (at 10 MHz)
	0.115 dB/m (at 16 MHz)
	0.128 dB/m (at 20 MHz)
	0.162 dB/m (at 31.25 MHz)
	0.23 dB/m (at 62.5 MHz)
	0.29 dB/m (at 100 MHz)
Flame resistance	according to VDE 0482 Part 265-2-1

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	according to IEC 332-1
Ambient temperature (operation)	-30 °C ... 80 °C (cable, fixed installation)
Ambient temperature (installation)	-5 °C ... 60 °C

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 60 °C (Cable, flexible installation)

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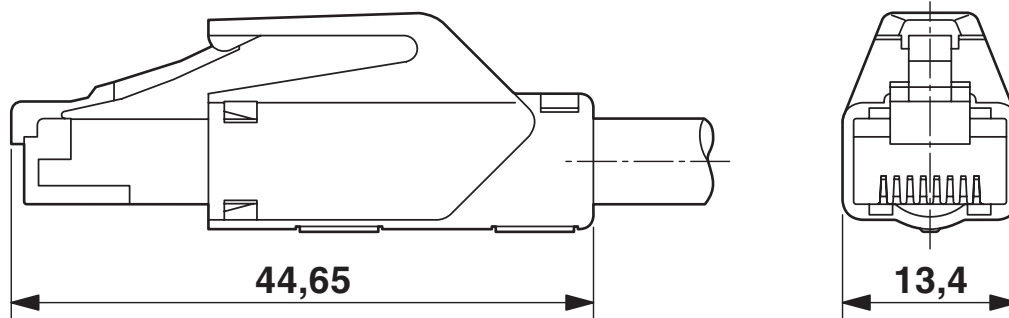
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Drawings

Dimensional drawing



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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

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