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Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug angled M12 SPEEDCON / IP67, Coding: D, on Plug straight RJ45 / IP20, Cable length: 0.5 m



Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	51.420 g
Custom tariff number	85444210
Country of origin	United States

Technical data

Dimensions

Length of cable	0.5 m
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Ambient conditions

Degree of protection	IP65 (M12 connector)
	IP67 (M12 connector)
	IP20 (RJ45 connector)
Ambient temperature (operation)	-25 °C 85 °C (M12 connector)

General data

Rated current at 40°C	1 A
Rated voltage	50 V
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Standards/regulations	M12 connector IEC 61076-2-101

Characteristics head 1

Head type	Plug angled M12 SPEEDCON / IP67



Technical data

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Coding	D (Data)			
Characteristics head 2				
Head type Plug straight RJ45 / IP20				
Standards and Regulations				
Standard designation	M12 connector			
Standards/regulations	IEC 61076-2-101			
Cable				
Cable type	PUR ETHERNET 2x2 FLEX			
Cable type (abbreviation)	93E			
UL AWM style	20963 (80°C/30 V)			
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps			
Cable structure	2x2xAWG26/7; SF/UTP			
Conductor cross section	2x 2x 0.14 mm²			
AWG signal line	26			
Conductor structure signal line	7x 0.16 mm			
Core diameter including insulation	0.98 mm			
Wire colors	white/orange-orange, white/green-green			
Twisted pairs	2 cores to the pair			
Overall twist	Two pairs with two fillers to the core			
Shielding	Aluminum-coated foil, tinned copper braided shield			
Optical shield covering	70 %			
External sheath, color	water blue RAL 5021			
Outer sheath thickness	1.2 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	≤ 80N			
Cable weight	42 kg/km			
Outer sheath, material	PUR			
Material conductor insulation	Foamed PE			
Conductor material	Bare Cu litz wires			
Standards/specifications	Electrical requirements EN 50288-2-2			
Insulation resistance	$\geq 500 \text{ M}\Omega^*\text{km}$			
Loop resistance	\leq 290 Ω (per km)			
Cable capacity	approx. 45 nF/km (at 1 kHz)			
Wave impedance	100 Ω ±5 Ω (at 100 MHz)			



Technical data

Cable

Signal runtime	5.3 ns/m
Coupling resistance	≤ 100.00 mΩ/m (At 10 MHz)
Nominal voltage, cable	≤ 100 V (Peak value, not for high-power applications)
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
	in acc. to UL VW1
Halogen-free	According to IEC 60754-1
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
Ambient temperature (storage/transport)	-20 °C 80 °C

Drawings

Schematic diagram



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

Schematic diagram



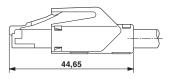
Connector pin assignment plug RJ45

Dimensional drawing



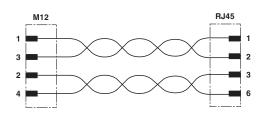
Cable cross section

PUR ETHERNET 2x2 FLEX [93E] RJ45 connector, IP20





Circuit diagram



Contact assignment of the M12 and RJ45 plug

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Approvals

UL Listed

Ex Approvals

Approval details

UL Listed http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAM	ME/index.htm FILE E 335024
Nominal current IN	1.5 A
Nominal voltage UN	30 V

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