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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON / IP67, coding: A, on Plug straight RJ45 / IP20, cable length: 5 m



Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	4 046356 993036
GTIN	4046356993036

Technical data

Dimensions

Length of cable	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)
	-25 °C 60 °C (RJ45 connector)

General data

Rated current at 40°C	1 A
Rated voltage	48 V AC
	60 V DC
Number of positions	8
Signal type/category	Ethernet CAT5, 1 Gbps
Standards/regulations	M12 connector IEC 61076-2-101
Contact material	CuSn
Contact carrier material	TPU GF



Technical data

General data

Contact surface material	Ni/Au
Housing material	Plastic

Characteristics head 1

Head type	Plug straight M12 SPEEDCON / IP67
Coding	A (Standard)

Characteristics head 2

Head type	Plug straight RJ45 / IP20
	1

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101

Cable

Ethernet, flexible, CAT5 94B 20963 (80°C/30 V) Ethernet CAT5 (IEC 11801), 1 Gbps 4x2xAWG26/7; SF/UTP 4x 2x 0.14 mm² 26
20963 (80°C/30 V) Ethernet CAT5 (IEC 11801), 1 Gbps 4x2xAWG26/7; SF/UTP 4x 2x 0.14 mm²
Ethernet CAT5 (IEC 11801), 1 Gbps 4x2xAWG26/7; SF/UTP 4x 2x 0.14 mm²
4x2xAWG26/7; SF/UTP 4x 2x 0.14 mm ²
4x 2x 0.14 mm²
<u> </u>
26
7x 0.16 mm
0.96 mm
white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
2 cores to the pair
4 pairs for core
Aluminum-coated foil, tinned copper braided shield
70 %
water blue RAL 5021
1.05 mm
6.4 mm ±0.2 mm
4 x D
8 x D
≤ 100 N
47 kg/km
PUR
Foamed PE
Bare Cu litz wires
≥ 500 MΩ*km
≤ 290.00 Ω/km
48 nF/km (at 1 kHz)
_0_wb_2_4_A_7_w_1_6_4_8_<_4_F_F_B_>_<



Technical data

Cable

Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Near end crosstalk attenuation (NEXT)	71.3 dB (with 1 MHz)
	62.3 dB (at 4 MHz)
	56.3 dB (at 10 MHz)
	53.2 dB (at 16 MHz)
	51.8 dB (at 20 MHz)
	48.9 dB (at 31.25 MHz)
	44.4 dB (at 62.5 MHz)
	41.3 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)
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)
Return loss (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	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)
Signal runtime	5.3 ns/m
Coupling resistance	\leq 100.00 m Ω /m (at 10 MHz)
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.)
Flame resistance	according to IEC 60332-1-2
Halogen-free	according to IEC 60754-1



Technical data

Cable

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

Environmental Product Compliance

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

Drawings

Schematic diagram



Schematic diagram



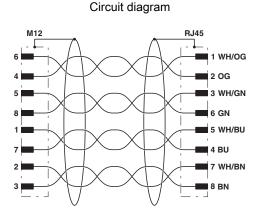
Pin assignment M12 plug, 8-pos., A-coded, view plug side



Cable cross section

Ethernet, flexible, CAT5 [94B]

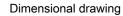
Connector pin assignment plug RJ45

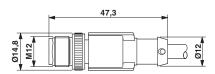


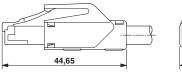
Contact assignment of the M12 and RJ45 plug



Dimensional drawing









RJ45 connector, IP20

Plug, M12 x 1, straight, shielded

Approvals

Approvals

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Approvals

UL Listed

Ex Approvals

Approval details

UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 335024
Nominal voltage UN			30 V	
Nominal current IN			0.5 A	

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