imall

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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 (100 Mbps), Ethernet CAT5e (100 Mbps), 4-position, PUR, water blue RAL 5021, shielded, Plug Straight RJ45 / IP20, on Socket Straight M12 SPEEDCON / IP67, Coding: D, Cable length: 10 m





Key commercial data

Packing unit	1 pc
Custom tariff number	85444210
Country of origin	Poland

Technical data

Dimensions

Length of cable	10 m

Ambient conditions

Degree of protection	IP65 (M12 connector)
	IP67 (M12 connector)
	IP20 (RJ45 connector)

General data

Rated current at 40°C	1 A
Rated voltage	50 V
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
	Ethernet CAT5e (TIA 568B:2001), 100 Mbps
Standards/regulations	M12 connector IEC 61076-2-101

Characteristics head 1

Head type	Plug Straight RJ45 / IP20
No. of positions (pin connector pattern)	4 (8)



Technical data

Characteristics head 1

Color	Gray
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-40 °C 60 °C

Characteristics head 2

Head type	Socket Straight M12 SPEEDCON / IP67
No. of positions (pin connector pattern)	4
Coding	D (Data)
Color	black
Material (component)	CuZn (Contact)
	Ni/Au (Contact surface)
	TPU GF (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip)
	Zinc die-cast, nickel-plated (Screw connection)
Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	\geq 100 MΩ
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm
Ambient temperature (operation)	-25 °C 90 °C

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 11801:2002), 100 Mbps
	Ethernet CAT5e (TIA 568B:2001), 100 Mbps
Cable structure	2x2xAWG26/7; SF/UTP
Conductor cross section	2x 2x 0.14 mm ²
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



Technical data

Cable

Aluminum-coated foil, tinned copper braided shield
70 %
water blue RAL 5021
6.4 mm ±0.2 mm
4 x D
8 x D
≤ 80N
42 kg/km
PUR
Foamed PE
Bare Cu litz wires
\geq 500 MΩ*km (at 20 °C)
≤ 29000000 Ω/km (at 20 °C)
45 nF (At 1 kHz)
100 Ω ±5 Ω (at 100 MHz)
5.3 ns/m
≤ 100 V
300 V (Outer cable sheath)
700 V (50 Hz, 1 min.)
700 V (50 Hz, 1 min.)
IEC 60332-1-2
According to IEC 60754-1
in accordance with DIN EN 60811-2-1
-40 °C 80 °C (cable, fixed installation)
-20 °C 80 °C (cable, flexible installation)
-20 °C 80 °C
-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	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801



Classifications

eCl@ss

eCl@ss 8.0	27061801
FTIM	

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Drawings





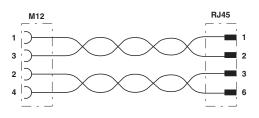
Pin assignment M12 socket, 4-pos., D-coded, female side

Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram

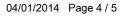


Contact assignment of the M12 socket and the RJ45 plug

Cable cross section

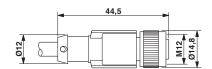


PUR ETHERNET 2x2 FLEX [93E]

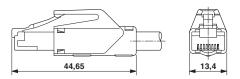




Dimensioned drawing



Dimensioned drawing



RJ45 connector, IP20

M12 x 1 socket, straight, shielded

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