

1417828

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Network cable, degree of protection: IP67/IP20, cable length: 0.5 m, number of positions: 8, 10 Gbps, $CAT6_A$, cable outlet: straight, Ethernet

Commercial data

Item number	1417828
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB18
Product key	ABNPAC
GTIN	4055626126470
Weight per piece (including packing)	63.2 g
Weight per piece (excluding packing)	55.713 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Mounting

	Mounting type	Rear wall/screw mounting
Pro	oduct properties	
	Product type	Circular connectors (device side)
	Sensor type	Ethernet
	Number of positions	8
	Number of slots	1
	Shielded	yes
	Coding	X
	Cable outlet	straight
ı	nsulation characteristics	
	Degree of pollution	3

Material specifications

Material	Zinc die-cast (nickel-plated)
Flammability rating according to UL 94	V2
Seal material	FKM
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuZn
Contact surface material	gold-plated
Contact carrier material	PPA
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PUR

Electrical properties

Rated voltage (III/3)	72 V (DC)
Nominal voltage U _N	48 V
Nominal current I _N	0.5 A
Transmission medium	Copper
Transmission characteristics (category)	CAT6 _A

Connector

Connection 1

Туре	Flush-type female connector straight M12
Locking type	SPEEDCON
Coding type	X (Data)
Insertion/withdrawal cycles	>= 100
Degree of protection	IP65/IP67

Connection 2



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Loop resistance

Wave impedance Cable capacity

Nominal voltage, cable

Туре	Plug straight RJ45
Insertion/withdrawal cycles	>= 750
Degree of protection	IP20
Degree of protection	11 20
ole/line	
Cable length	0.50 m
thernet 10 Gbit [94F]	
Dimensional drawing	
Cable weight	42 kg/km
UL AWM Style	20963 (80°C/30 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet 10 Gbit [94F]
Conductor structure	4x2xAWG26/7; S/FTP
Signal runtime	5.13 ns/m
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm²
Wire diameter incl. insulation	1.04 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
	I danied i E
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
	white/blue-blue, white/orange-orange, white/green-green,
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Single wire, color Thickness, outer sheath	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown 0.65 mm
Single wire, color Thickness, outer sheath Twisted pairs	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown 0.65 mm 2 cores to the pair
Single wire, color Thickness, outer sheath Twisted pairs Type of pair shielding	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown 0.65 mm 2 cores to the pair Aluminum-lined foil

≤ 290.00 Ω/km

47 nF/km

≤ 100 V

100 Ω ±5 Ω (at 100 MHz)



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Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm
Tensile strength	≤ 100 N
Near end crosstalk attenuation (NEXT)	75.3 dB (with 1 MHz)
	66.3 dB (at 4 MHz)
	61.8 dB (at 8 MHz)
	60.3 dB (at 10 MHz)
	57.2 dB (at 16 MHz)
	55.8 dB (at 20 MHz)
	54.3 dB (at 25 MHz)
	52.8 dB (at 31.25 MHz)
	48.4 dB (at 62.5 MHz)
	45.3 dB (at 100 MHz)
	40.8 dB (at 200 MHz)
	39.3 dB (at 250 MHz)
	38.1 dB (at 300 MHz)
	38.1 dB (at 400 MHz)
	38.1 dB (at 500 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	72.3 dB (with 1 MHz)
	63.3 dB (at 4 MHz)
	58.8 dB (at 8 MHz)
	57.3 dB (at 10 MHz)
	54.2 dB (at 16 MHz)
	52.8 dB (at 20 MHz)
	51.3 dB (at 25 MHz)
	49.9 dB (at 31.25 MHz)
	45.4 dB (at 62.5 MHz)
	42.3 dB (at 100 MHz)
	37.8 dB (at 200 MHz)
	36.3 dB (at 250 MHz)
	35.1 dB (at 300 MHz)
	33.3 dB (at 400 MHz)
	31.8 dB (at 500 MHz)
Return attenuation (RL)	20 dB (with 1 MHz)
	23 dB (at 4 MHz)
	24.5 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	24.2 dB (at 25 MHz)



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	23.3 dB (at 31.25 MHz)
	20.7 dB (at 62.5 MHz)
	19 dB (at 100 MHz)
	16.4 dB (at 200 MHz)
	15.6 dB (at 250 MHz)
	15.6 dB (at 300 MHz)
	15.6 dB (at 400 MHz)
	15.6 dB (at 500 MHz)
Shield attenuation	3.1 dB (with 1 MHz)
	5.7 dB (at 4 MHz)
	8 dB (at 8 MHz)
	8.9 dB (at 10 MHz)
	11.2 dB (at 16 MHz)
	12.6 dB (at 20 MHz)
	14.1 dB (at 25 MHz)
	15.8 dB (at 31.25 MHz)
	22.5 dB (at 62.5 MHz)
	28.7 dB (at 100 MHz)
	41.4 dB (at 200 MHz)
	46.6 dB (at 250 MHz)
	51.4 dB (at 300 MHz)
	60.1 dB (at 400 MHz)
	67.9 dB (at 500 MHz)
	≥ 80.00 dB (at 30 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in accordance with UN ECE-R 118.03
Resistance to oil	in accordance with DIN 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

Environmental and real-life conditions

Ambient conditions

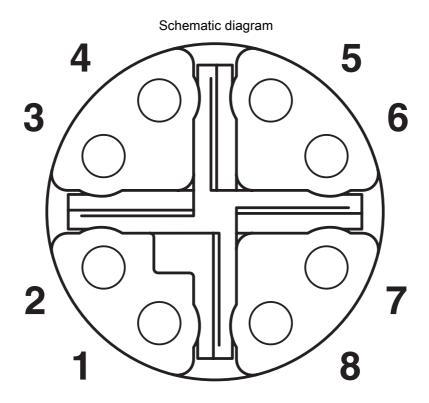
Degree of protection	IP67/IP20
Ambient temperature (operation) (male connector/female connector)	-25 °C 60 °C (Plug / socket)



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Drawings



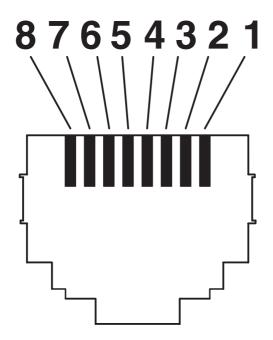
M12 socket pin assignment, 8-pos, view of socket side



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Schematic diagram



Connector pin assignment plug RJ45



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Approvals

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EAC

Approval ID: 19060508



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Classifications

	ECLASS-13.0	27440103
ETIM		
	ETIM 9.0	EC003570
UNSPSC		
	UNSPSC 21.0	26121600
	UNSPSC 21.0	26121600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	78037b72-cb78-43da-a760-16c223bb3802

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