

1408367

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Patch cable, $CAT6_A$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length 10 m

Your advantages

- · Compact angle
- · Perfect for industrial applications
- · PVC cable for flexible installations
- · Worldwide approval with CE, UL, WEEE, and EAC
- · Secure connection and disconnection with reliable locking clip protection
- Ideal EMC properties, thanks to 360° shielding
- · Simultaneous power transmission with PoE++
- · Resistant to shock and vibrations, thanks to robust molding
- High-speed data transmission with up to 1 Gbps (CAT5)

Commercial data

Item number	1408367
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABF
Catalog page	Page 402 (C-2-2019)
GTIN	4046356805087
Weight per piece (including packing)	478.4 g
Weight per piece (excluding packing)	435 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	8
Shielded	yes

Signaling

Status display	No
Status display present	No

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
Transmission speed	10 Gbps

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	200
Insertion force per signal contact	50.00 N
Extraction force per signal contact	30 N

Material specifications

Outer sheath, material	PUR

Connector

Connection 1

Туре	Plug straight RJ45
Shielded	yes
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20
Number of positions	8
Insertion/withdrawal cycles	750

Connection 2

Туре	Plug straight RJ45
Shielded	yes
Insertion/withdrawal cycles	≥ 750
Number of positions	8



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e/line	
Cable length	10.00 m
nernet 10 Gbit [94F]	
Dimensional drawing	
Shielded	yes
UL AWM Style	20963 (80°C/30 V)
Cable weight	42 kg/km
Cable type	Ethernet 10 Gbit
Short symbol	02YSC11Y
Cable type (abbreviation)	94F
Signal type/category	Ethernet CAT6 _A , 10 Gbps
Cable structure	4x2xAWG26/7; S/FTP
External cable diameter	6.4 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Thickness, outer sheath	0.65 mm
Conductor material	Bare Cu litz wires
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm²
Material wire insulation	Foamed PE
Wire diameter incl. insulation	1.04 mm
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined foil
Overall twist	4 pairs for core
Shielding	Tinned copper braided shield
Optical shield covering	70 %
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.)
Cable insulation resistance	≥ 500 MΩ*km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)



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Loop resistance	≤ 290.00 Ω/km
Cable capacity	47 nF/km
Signal runtime	5.13 ns/m
Tensile strength	≤ 100 N
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Damping	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)
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)
	36.3 dB (at 400 MHz)
	34.8 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)



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42.3 (37.8 (36.3 (35.1 (33.3 (dB (at 62.5 MHz) dB (at 100 MHz) dB (at 200 MHz) dB (at 250 MHz) dB (at 300 MHz) dB (at 400 MHz) dB (at 400 MHz)
37.8 (36.3 (35.1 (33.3 (dB (at 200 MHz) dB (at 250 MHz) dB (at 300 MHz) dB (at 400 MHz)
36.3 d 35.1 d 33.3 d	dB (at 250 MHz) dB (at 300 MHz) dB (at 400 MHz)
35.1 d 33.3 d	dB (at 300 MHz) dB (at 400 MHz)
33.3	dB (at 400 MHz)
	· · · · · · · · · · · · · · · · · · ·
31.8	dB (at 500 MHz)
Return loss (RL) 20 dE	3 (with 1 MHz)
23 dE	3 (at 4 MHz)
24.5	dB (at 8 MHz)
25 dE	3 (at 10 MHz)
25 dE	3 (at 16 MHz)
25 dE	3 (at 20 MHz)
24.2	dB (at 25 MHz)
23.3	dB (at 31.25 MHz)
20.7	dB (at 62.5 MHz)
19 dE	3 (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 ≥ 80 d	dB (at 30 100 MHz)
Halogen-free accor	rding to IEC 60754-1
Resistance to oil in acc	cordance with DIN EN 60811-2-1
Flame resistance according	rding to IEC 60332-1-2
Ambient temperature (operation) -20 °C	C 80 °C (Cable, flexible installation)
-40 °C	C 80 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-20 °C 70 °C (RJ45 connector)
	-20 °C 80 °C (cable, fixed installation)

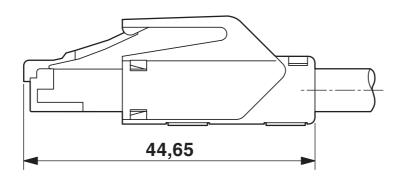


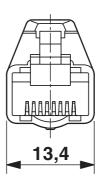
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Drawings

Dimensional drawing





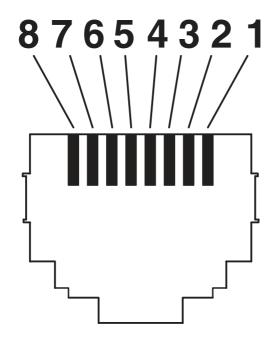
RJ45 connector, IP20



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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

	ECLASS-11.0	27060308	
	ECLASS-12.0	27060308	
	ECLASS-13.0	27060308	
ETIM			
	ETIM 8.0	EC002599	
UNSPSC			
	UNSPSC 21.0	26121600	



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Environmental product compliance

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

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