

1697688

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Patch cable, RJ45/IP20 straight on RJ45/IP20 straight, cable length: 20 m, number of positions: 8, 10 Gbps, $CAT6_A$, connection cross section: AWG 26- 26, Ethernet, 4x2xAWG26/7; S/FTP, red

Your advantages

- · Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- · 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++
- Future-proof high-speed data transmission with up to 10 Gbps (CAT6_A)

Commercial data

Item number	1697688
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABH
GTIN	4067923260375
Weight per piece (including packing)	1,032 g
Weight per piece (excluding packing)	1,032 g
Customs tariff number	85444210
Country of origin	CN



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Technical data

Product properties

Product type	Data cable preassembled
Product family	RJ45 STANDARD CAT6A
Sensor type	Ethernet
Number of positions	8
Shielded	yes

Electrical properties

Rated voltage (III/2)	72 V
Transmission medium	Copper
Transmission speed	10 Gbps
Transmission speed	10 Gbps
Power transmission	PoE++

Dimensions

Width	11.6 mm
Height	14.8 mm
Length	40 mm

Connector

Connection 1

5.

Dimensional drawing	8765 432 1 Connector pin assignment plug RJ45
Туре	RJ45 Plug, straight, 8-position
Number of positions	8
Shielded	yes
Signal type/category	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps
Insertion/withdrawal cycles	≥ 750
Insertion force	30 N (per signal contact)
Withdrawal force	50 N (per signal contact)
Overvoltage category	I
Degree of pollution	2
Material Contact	Brass
Material Contact surface	Au



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Material Contact carrier

Material Contact carrier	
Color (Housing)	red
Flammability rating according to UL 94	V0
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 80 °C
onnection 2	
Dimensional drawing	87654321 Tillillilli Connector pin assignment plug RJ45
Туре	RJ45 Plug, straight, 8-position
Number of positions	8
Shielded	
	yes
	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps
Signal type/category	
Signal type/category Insertion/withdrawal cycles	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps
Signal type/category Insertion/withdrawal cycles Insertion force	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact)
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force Overvoltage category	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact) 50 N (per signal contact)
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force Overvoltage category Degree of pollution	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact) 50 N (per signal contact) I
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force Overvoltage category Degree of pollution Material Contact	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact) 50 N (per signal contact) I
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force Overvoltage category Degree of pollution Material Contact Material Contact surface	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact) 50 N (per signal contact) I 2 Brass
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force Overvoltage category Degree of pollution Material Contact Material Contact surface Material Contact carrier	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact) 50 N (per signal contact) I 2 Brass Au
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force Overvoltage category Degree of pollution Material Contact Material Contact surface Material Contact carrier Color (Housing)	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact) 50 N (per signal contact) I 2 Brass Au PC
Signal type/category Insertion/withdrawal cycles Insertion force Withdrawal force Overvoltage category Degree of pollution Material Contact Material Contact surface Material Contact carrier Color (Housing) Flammability rating according to UL 94 Degree of protection	Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps ≥ 750 30 N (per signal contact) 50 N (per signal contact) I 2 Brass Au PC red

РС

Cable/line

Cable length	20.00 m
ethernet, Type B, 8-pos., CAT6A, LSZH [BC6A]	
Number of positions	8
Shielded	yes
Cable type	Ethernet, Type B, 8-pos., CAT6A, LSZH [BC6A]
Conductor structure	4x2xAWG26/7; S/FTP
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Wire diameter incl. insulation	1 mm
External cable diameter	6.50 mm ±0.3 mm



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Outer sheath, material	LSZH
External sheath, color	red
Conductor material	Bare Cu litz wires
Material wire insulation	PE
	8
Single wires, quantity	26
Single wire, cross section [AWG]	
Thickness, outer sheath	approx. 0.70 mm
Optical shield covering	70 %
Insulation resistance	≥ 5000 MΩ*km
Loop resistance	≤ 148.00 Ω/km
Wave impedance	100 Ω
Minimum bending radius, fixed installation	8 x D
Smallest bending radius, fixed installation	52 mm
Near end crosstalk attenuation (NEXT)	75 dB (with 1 MHz)
	66.3 dB (at 4 MHz)
	60.3 dB (at 10 MHz)
	57.2 dB (at 16 MHz)
	55.8 dB (at 20 MHz)
	52.9 dB (at 31.25 MHz)
	48.4 dB (at 62.5 MHz)
	45.3 dB (at 100 MHz)
	40.8 dB (at 200 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)
	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)
	35.1 dB (at 300 MHz)
	33.3 dB (at 400 MHz)
	31.8 dB (at 500 MHz)
eturn attenuation (RL)	20 dB (with 1 MHz)
,	23 dB (at 4 MHz)
	24.5 dB (at 8 MHz)
	(····)
	25 dB (at 10 MHz)



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20 MHz) at 25 MHz) at 31.25 MHz) at 62.5 MHz) 100 MHz) at 200 MHz) at 300 MHz) at 400 MHz)
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ut 400 MHz)
ut 500 MHz)
with IEC 60754-1/2
2-1-2/IEC 60332-3-24/CM
30 °C (cable, fixed installation)
30 °C (Cable, flexible installation)
°C

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C 80 °C
Ambient temperature (storage/transport)	0 °C 40 °C

Standards and regulations

	Flame resistance	IEC 60332-1-2



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1697688



UL Listed

Approval ID: E335024_20210804



cUL Listed

Approval ID: E335024_20210804



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Classifications

ECLASS

	ECLASS-13.0	27060307		
	ECLASS-15.0	27060307		
ETIM				
	ETIM 9.0	EC001855		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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