

1112820

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Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PP, connection method: Pierce connection, cable outlet: straight, PROFINET

Your advantages

- · 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 100 Mbps (CAT5)

Commercial Data

Item number	1112820
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	AB11
Product Key	ABNABA
GTIN	4063151033828
Weight per Piece (including packing)	153.9 g
Weight per Piece (excluding packing)	150 g
Customs tariff number	85444210
Country of origin	PL



1112820

https://www.phoenixcontact.com/us/products/1112820

Technical Data

Product properties

Product type	Data cable preassembled
Number of positions	4
Locking type	Locking clips
Shielded	yes
Cable outlet	straight
Insulation characteristics	
Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	72 V
Rated current	1.75 A
Insulation resistance	> 1 TΩ
Contact resistance	< 20 mΩ
Transmission speed	100 Mbps

Mechanical properties

Mechanical data

Insertion force per signal contact	50.00 N
Extraction force per signal contact	30 N

Material specifications

Flammability rating according to UL 94	V2
Contact material	CuSn6
Contact surface material	Ni/Au
Contact carrier material	PC
Housing material	PP

Dimensions

Width	13.8 mm
Height	14.8 mm
Length	44.2 mm

Connection data

Connection technology

Connection method	Pierce connection
Conductor connection	
Connection method	Pierce connection



1112820

https://www.phoenixcontact.com/us/products/1112820

Connector

Connection 1

Туре	Plug straight RJ45
Shielded	yes
Handle color	black
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

Connection 2

Туре	Plug straight RJ45
Shielded	yes
Handle color	black
Insertion/withdrawal cycles	≥ 750

Cable/line

Cable length	2.00 m

PROFINET PVC stranded CAT5 [93B]

Dimensional drawing



Shielded	yes
UL AWM Style	21694
Cable weight	67 kg/km
Cable type	PROFINET PVC stranded CAT5
Short symbol	2YY(ST)CY
Cable type (abbreviation)	93B
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
	EtherCAT [®] CAT5 (IEC 11801), 100 Mbps
Cable structure	1x4xAWG22/7; SF/TQ
External cable diameter	6.5 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Thickness, outer sheath	approx. 0.9 mm
Material, inner sheath	PVC
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22



1112820

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	4x 0.34 mm²
Material wire insulation	PE
Wire diameter incl. insulation	1.55 mm
Single wire, color	white, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Cable insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 20.00 mΩ/m (at 10 MHz)
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Loop resistance	≤ 120.00 Ω/km
Signal runtime	5.3 ns/m
Signal speed	0.66 c
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Damping	2.1 dB (with 1 MHz)
	4 dB (at 4 MHz)
	6.3 dB (at 10 MHz)
	8 dB (at 16 MHz)
	9 dB (at 20 MHz)
	11.4 dB (at 31.25 MHz)
	16.5 dB (at 62.5 MHz)
	21.3 dB (at 100 MHz)
Near end crosstalk attenuation (NEXT)	21.3 dB (at 100 MHz) 80 dB (with 1 MHz)
Near end crosstalk attenuation (NEXT)	
Near end crosstalk attenuation (NEXT)	80 dB (with 1 MHz)
Near end crosstalk attenuation (NEXT)	80 dB (with 1 MHz) 76 dB (at 4 MHz)
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Resistance to oil	80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Resistant to oil to a limited extent according to UL 1685 (CSA FT 4)
Resistance to oil Flame resistance	80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Resistant to oil to a limited extent

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20



1112820

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	Ambient temperature (operation)	-40 °C 85 °C (RJ45 connector)		
	Ambient temperature (storage/transport)	-40 °C 85 °C (RJ45 connector)		
Standards and regulations				
	Standards/specifications	IEC 60603-7		



1112820

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Classifications

ECLASS

	ECLASS-11.0	27060308		
	ECLASS-12.0	27060308		
	ECLASS-13.0	27060308		
ETIM				
	ETIM 8.0	EC001121		
UNSPSC				
	UNSPSC 21.0	39121400		

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