

1426671

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Patch cable, degree of protection: IP20, cable length: 3 m, number of positions: 4, 100 Mbps, CAT5, material: PP, connection method: Pierce connection, cable outlet: bottom, PROFINET

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

Commercial data

Item number	1426671
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABNABA
Product key	ABNABA
GTIN	4063151787226
Weight per piece (including packing)	226.831 g
Weight per piece (excluding packing)	226.831 g
Customs tariff number	85444210
Country of origin	PL



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Technical data

Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL PN4 CAT5
Sensor type	PROFINET
Number of positions	4
Shielded	yes
Cable outlet	bottom
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 characteristics (category)	CAT5
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	V0
Housing material	PP
Contact material	CuSn6
Contact surface material	Ni/Au
Contact carrier material	PC

Dimensions

Width	13.8 mm
Height	33.9 mm
Length	34 mm

Connection data

Connection technology

Connection method	Pierce connection
Conductor connection	



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Connection 1 Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles ≥ 750 Degree of protection IP20 Connection 2 Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles ≥ 750 Degree of protection IP20 Connection 2 Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles ≥ 750 Degree of protection IP20 Cable/line Cable length 3.00 m Sercos III [83K] Dimensional drawing Shielded yes UL AWM Style 21694 (60 °C / 600 V) Cable weight 68 kg/km Cable type Cable type Sercos III Cable type Sercos III Cable type Sercos III Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1,4xx/WG227, SFT70 External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal and RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor raterial Tin-plated Cu litz wires Conductor raterial Tin-plated Cu litz wires Conductor crass section 4x 0.24 mm²	Connection method	Pierce connection
Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles 2 750 Degree of protection IP20 Connection 2 Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles 2 750 Degree of protection IP20 Cable/line Cable length 3.00 m Sercos III [93K] Dimensional drawing Shielded yes UL AWM Style 21694 (60 °C / 600 V) Cable weight 68 kg/km Cable type (abbreviation) 93K Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1 x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External cable diameter 6.50 mm ±0.2 mm Material, inner sheath PVC Conductor material Tri-plated Cu litz wires Conductor structure signal line 7 x 0.25 mm AWG signal line 17 x 0.25 mm AWG signal line 17 x 0.25 mm AWG signal line 17 x 0.25 mm	Connector	
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Shielded yes Insertion/withdrawal cycles Degree of protection IP20 Connection 2 Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles ≥ 750 Degree of protection IP20 Cable/line Cable length Shielded yes UL AWM Style Cable weight Gable type Sercos III Cable type Sercos III Cable type Sercos III Cable type Sercos III Cable type (abbreviation) Signal type/category Cable structure External cable diameter Outer's heath, material External sebath, color Thickness, outer sheath Material, inner sheath Canductor material Canductor structures ignal line AWG signal line PVC Conductor material Canductor structures ignal line AWG signal line 7 x 0.25 mm AWG signal line		Plus bottom P 145
Insertion/withdrawal cycles Degree of protection IP20 Connection 2 Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles 2 750 Degree of protection IP20 Cable Insertion/withdrawal cycles 2 750 Degree of protection Cable length Cable length Sercos III [93K] Dimensional drawing Shielded UL AWM Style Cable weight 68 kg/km Cable type Sercos III Cable type Cable type Sercos III Cable type Sercos III Cable type Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG227, FyFTQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color Thickness, outer sheath Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line		
Degree of protection IP20		
Connection 2 Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles ≥ 750 Degree of protection IP20 Cable length Cable length 3.00 m Sercos III [93K] Dimensional drawing Shielded UL AWM Style Cable 460 °C / 600 V) Cable weight 68 kg/km Cable type Sercos III Cable type (abbreviation) 93K Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/T, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor structure signal line 7x 0.25 mm AWG signal line 22		
Type Plug bottom RJ45 Shielded yes Insertion/withdrawal cycles ≥ 750 Degree of protection IP20 Cable length Cable length 3.00 m Sercos III [93K] Dimensional drawing Shielded UL AWM Style 21694 (60 °C / 600 V) Cable weight 68 kg/km Cable type Sercos III Cable type (abbreviation) 93K Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/T, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 090 mm Material, inner sheath PVC Conductor structure signal line 7x 0.25 mm AWG signal line 22	Degree of protection	11 20
Shielded yes Insertion/withdrawal cycles ≥ 750 Degree of protection IP20 Cable length Sercos III [93K] Dimensional drawing Shielded UL AWM Style 21694 (60 °C / 600 V) Cable weight 68 kg/km Cable type Sercos III Cable type (abbreviation) 93K Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22		
Insertion/withdrawal cycles 2 750	Туре	Plug bottom RJ45
Degree of protection IP20 Cable length 3.00 m Sercos III [93K] Image: Comparison of the protection o		
Cable length 3.00 m Sercos III [93K] Dimensional drawing Shielded yes UL AWM Style 2 1694 (60 °C / 600 V) Cable weight 68 kg/km Cable type Sercos III Cable type (abbreviation) 93K Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22		
Cable length Sercos III [93K] Dimensional drawing Shielded yes UL AWM Style 21694 (60 °C / 600 V) Cable weight Cable type Sercos III Cable type (abbreviation) Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/7, SF/TQ External cable diameter Outer sheath, material PVC External sheath, color Signal red RAL 3020 Thickness, outer sheatth Auterial, inner sheatth PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line	Degree of protection	IP20
Dimensional drawing	Cable/line	
Sercos	Cable length	3.00 m
Shielded yes UL AWM Style 21694 (60 °C / 600 V) Cable weight 68 kg/km Cable type Sercos III Cable type (abbreviation) 93K Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22		
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Cable type (abbreviation) 93K Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line	UL AWM Style	21694 (60 °C / 600 V)
Cable type (abbreviation) Signal type/category Sercos CAT5 (IEC 11801), 100 Mbps Cable structure 1x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color Signal red RAL 3020 Thickness, outer sheath Auterial, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line	Cable weight	68 kg/km
Signal type/category Cable structure 1x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color Signal red RAL 3020 Thickness, outer sheath Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line AWG signal line Sercos CAT5 (IEC 11801), 100 Mbps 1x4xAWG22/7, SF/TQ 6.50 mm ±0.2 mm PVC Signal red RAL 3020 Thickness, outer sheath PVC Tin-plated Cu litz wires 7x 0.25 mm AWG signal line	Cable type	Sercos III
Cable structure 1x4xAWG22/7, SF/TQ External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22	Cable type (abbreviation)	93K
External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22	Signal type/category	Sercos CAT5 (IEC 11801), 100 Mbps
Outer sheath, material PVC External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22	Cable structure	1x4xAWG22/7, SF/TQ
External sheath, color signal red RAL 3020 Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22	External cable diameter	6.50 mm ±0.2 mm
Thickness, outer sheath approx. 0.90 mm Material, inner sheath PVC Conductor material Tin-plated Cu litz wires Conductor structure signal line 7x 0.25 mm AWG signal line 22	Outer sheath, material	PVC
Material, inner sheath Conductor material Conductor structure signal line AWG signal line PVC Tin-plated Cu litz wires 7x 0.25 mm 22	External sheath, color	signal red RAL 3020
Conductor material Conductor structure signal line AWG signal line Tin-plated Cu litz wires 7x 0.25 mm 22	Thickness, outer sheath	approx. 0.90 mm
Conductor structure signal line 7x 0.25 mm AWG signal line 22	Material, inner sheath	PVC
AWG signal line 22	Conductor material	Tin-plated Cu litz wires
	Conductor structure signal line	7x 0.25 mm
Conductor cross section 4x 0.34 mm ²	AWG signal line	22
	Conductor cross section	4x 0.34 mm²
Material wire insulation PE	Material wire insulation	PE



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Wire diameter incl. insulation	approx. 1.55 mm
Single wire, color	white, yellow, blue, orange
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Star quad
Shielding	Tinned copper braided shield
Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Cable resistance	≤ 120 Ω/km
Cable insulation resistance	≥ 0.5 GΩ*km
Coupling resistance	≤ 20.00 mΩ/m (at 10 Hz)
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Signal runtime	5.3 ns/m
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Resistance to oil	Resistant to oil to a limited extent
Flame resistance	according to UL 1685 (CSA FT 4)
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C 70 °C (Cable, flexible installation)
	-40 °C 70 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
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
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Classifications

ECLASS

ECLASS-11.0	27060308
ECLASS-12.0	27060308
ECLASS-13.0	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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