NBC-R4ACS/1,0-93C/R4ACS - Patch cable

1112937

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Patch cable, PROFINET CAT5 (100 Mbps), 4-position, PUR halogen-free, green RAL 6018, Plug straight RJ45 / IP20, on Plug straight RJ45 / IP20, cable length: 1 m

Your advantages

- Perfect for industrial applications
- PUR cable for moving applications (bend)
- 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)

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	1112937
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABA
GTIN	4063151033996
Weight per piece (including packing)	89 g
Weight per piece (excluding packing)	82.692 g
Customs tariff number	85444210

Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL PN4 CAT5
Number of positions	4
Shielded	yes

Interfaces

Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps

Electrical properties

Rated voltage (III/2)	72 V
Rated current	1.75 A
Insulation resistance	> 1 TΩ
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5

Dimensions

Width	14 mm
Height	14.8 mm
Length	44.2 mm

Connector

Connection 1

Type	RJ45 Plug, straight, 4-position, PROFINET, EtherCAT®
Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
	EtherCAT®, 100 Mbps
Insertion/withdrawal cycles	≥ 750
Insertion force	50 N (per signal contact)
Withdrawal force	30 N (per signal contact)
Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn6
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PP
Color (Housing)	black
Flammability rating according to UL 94	V2
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

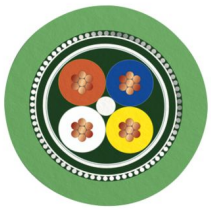
Connection 2

Type	RJ45 Plug, straight, 4-position, PROFINET, EtherCAT®
Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
	EtherCAT®, 100 Mbps
Insertion/withdrawal cycles	≥ 750
Insertion force	50 N (per signal contact)
Withdrawal force	30 N (per signal contact)
Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn6
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PP
Color (Housing)	black
Flammability rating according to UL 94	V2
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

Cable/line

Cable length	1 m

PROFINET drag chain CAT5 [93C]

Dimensional drawing	
UL AWM Style	20233 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	PROFINET drag chain CAT5 [93C]
Conductor structure	1x4xAWG22/7, SF/TQ
AWG signal line	22
Conductor cross-section	4x 0.34 mm²
Wire diameter incl. insulation	1.5 mm ±0.05 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white, yellow, blue, orange

Overall twist	Star quad
Optical shield covering	85 %
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)
Nominal voltage, cable	≤ 300 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	7.5 x D
Dynamic load capacity (bending)	Max. bending cycles: 3000000, Bending radius: 200 mm, Traversing path: 10 m, Traversing rate: 4 m/s, Acceleration: 4 m/s²
Dynamic load capacity (torsion)	Torsion: ±30 °/m
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in accordance with UN ECE-R 118.03
	according to CSA C 22.2 No. 210-FT1
Resistance to oil	in accordance with DIN EN 60811-404
Other resistance	UV resistant
Special properties	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1112937

UL Listed
Approval ID: E335024-V1S7

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	57 V	1.75 A	-	-

cUL Listed
Approval ID: E335024-V1S7

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	57 V	1.75 A	-	-

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 10.0	EC002599

UNSPSC

UNSPSC 21.0	39121400

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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