NBC-R4AC/3,0-93K/R4AC - Patch cable

1412376

https://www.phoenixcontact.com/us/products/1412376

PHŒNIX CONTACT

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Patch cable, degree of protection: IP20, cable length: 3 m, number of positions: 4, 100 Mbps, Sercos

Your advantages

- Perfect for industrial applications
- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- Compact angle

Commercial data

Item number	1412376
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	ABNABA
GTIN	4046356959414
Weight per piece (including packing)	228 g
Weight per piece (excluding packing)	205.391 g
Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	Sercos
Number of positions	4
Shielded	yes

Insulation characteristics	
Overvoltage category	I
Degree of pollution	1

Signaling

Status display	No

Electrical properties

Rated voltage (III/3)	72 V (DC)
Transmission medium	Copper
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

Connector

Connection 1	
Type	Plug straight RJ45
Shielded	yes
Handle color	black
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 80 °C

Connection 2

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Type	Plug straight RJ45
Shielded	yes
Handle color	black
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 80 °C

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	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
Conductor cross section	4x 0.34 mm²
Material wire insulation	PE
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
	IP20

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Drawings

Circuit diagram

RJ45		RJ45	
1		1	YE
2		2	OG
3		3	WH
6		6	BU

Dimensional drawing

13,9   48,5   14,9
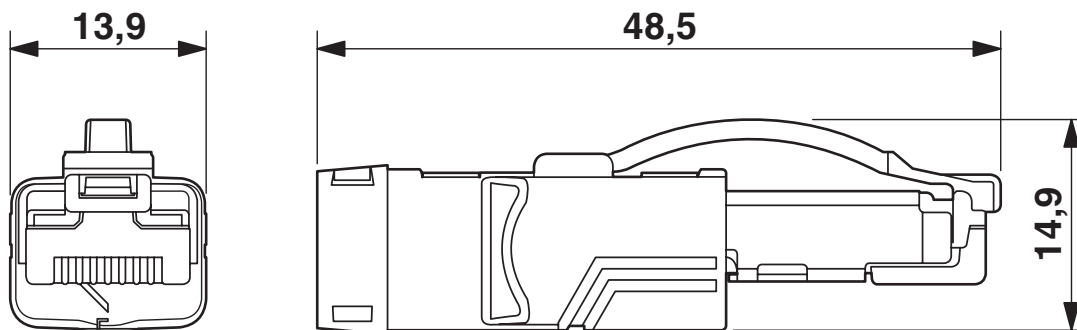
RJ45 connector, IP20

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1412376

〔HЦ	**EAC** Approval ID: 19060508	

Classifications

ECLASS

ECLASS-11.0	27060308
ECLASS-12.0	27060308
ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC002599

UNSPSC

UNSPSC 21.0	26121600

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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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