

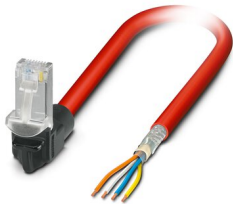
# NBC-R4ACB/3,0-93K/OE - Patch cable



1113215

<https://www.phoenixcontact.com/in/products/1113215>

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

## 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
- High-speed data transmission with up to 1 Gbps (CAT5)

## Commercial Data

Item number	1113215
Packing unit	1 pc
Sales Key	ABN
Product Key	ABNABA
GTIN	4063151035181
Weight per Piece (including packing)	219 g
Weight per Piece (excluding packing)	219 g
Country of origin	DE

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## Technical Data

### Product properties

Product type	Data cable preassembled
Locking type	Locking clips
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 T $\Omega$
Contact resistance	< 20 m $\Omega$
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
Contact material	CuSn6
Contact surface material	Ni/Au
Contact carrier material	PC
Housing material	PP

### Dimensions

Width	13.8 mm
Height	34.8 mm
Length	34 mm

### Connection data

#### Connection technology

Connection method	Pierce connection
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#### Conductor connection

Connection method	Pierce connection
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### Connector

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## Connection 1

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


## Connection 2

Type	free cable end
Shielded	yes
Insertion/withdrawal cycles	≥ 750

## Cable/line

Cable length	3.00 m
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## 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	6.5 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	signal red RAL 3020
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
Conductor cross section	4x 0.34 mm <sup>2</sup>
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

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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 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)

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## Classifications

### ECLASS

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

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