

# NBC-R4OC/1,0-BC6A/R4OC-GR - Patch cable



1523699

<https://www.phoenixcontact.com/us/products/1523699>

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Patch cable, RJ45/IP20 straight on RJ45/IP20 straight, cable length: 1 m, number of positions: 8, CAT6<sub>A</sub>, connection cross section: AWG 26- 26, Ethernet, 4x2xAWG26/7; S/FTP, green

## Your advantages

- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- 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++
- Future-proof high-speed data transmission with up to 10 Gbps (CAT6<sub>A</sub>)

## Commercial data

Item number	1523699
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABH
GTIN	4063151990152
Weight per piece (including packing)	69.26 g
Weight per piece (excluding packing)	68.5 g
Customs tariff number	85444210
Country of origin	CN

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## Technical data

### Product properties

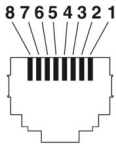
Product type	Data cable preassembled
Product family	RJ45 STANDARD CAT6A
Sensor type	Ethernet
Number of positions	8
Shielded	yes

### Electrical properties

Rated voltage (III/2)	72 V
Power transmission	PoE++

### Connector

#### Connection 1

Dimensional drawing	 <p>Connector pin assignment plug RJ45</p>
Type	RJ45 Plug, straight, 8-position
Number of positions	8
Shielded	yes
Signal type/category	Ethernet CAT6 <sub>A</sub> (IEC 11801:2002), 10 Gbps
Insertion/withdrawal cycles	≥ 750
Insertion force	30 N (per signal contact)
Withdrawal force	50 N (per signal contact)
Overvoltage category	I
Degree of pollution	2
Material Contact	Brass
Material Contact surface	Au
Material Contact carrier	PC
Color (Housing)	green
Flammability rating according to UL 94	V0
Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 80 °C

#### Connection 2

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Dimensional drawing	 Connector pin assignment plug RJ45
Type	RJ45 Plug, straight, 8-position
Number of positions	8
Shielded	yes
Signal type/category	Ethernet CAT6 <sub>A</sub> (IEC 11801:2002), 10 Gbps
Insertion/withdrawal cycles	≥ 750
Insertion force	30 N (per signal contact)
Withdrawal force	50 N (per signal contact)
Overvoltage category	I
Degree of pollution	2
Material Contact	Brass
Material Contact surface	Au
Material Contact carrier	PC
Color (Housing)	green
Flammability rating according to UL 94	V0
Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 80 °C

## Cable/line

Cable length	1.00 m
Ethernet, Type B, 8-pos., CAT6A, LSZH [BC6A]	
Number of positions	8
Shielded	yes
Cable type	Ethernet, Type B, 8-pos., CAT6A, LSZH [BC6A]
Conductor structure	4x2xAWG26/7; S/FTP
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Wire diameter incl. insulation	1 mm
External cable diameter	6.50 mm ±0.3 mm
Outer sheath, material	LSZH
External sheath, color	green
Conductor material	Bare Cu litz wires
Material wire insulation	PE
Single wires, quantity	8
Single wire, cross section [AWG]	26

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Thickness, outer sheath	approx. 0.70 mm
Optical shield covering	70 %
Insulation resistance	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Loop resistance	$\leq 148.00 \text{ }\Omega/\text{km}$
Wave impedance	100 $\Omega$
Test voltage Core/Core	1000 V DC
Test voltage Core/Shield	1500.00 V DC
Minimum bending radius, fixed installation	8 x D
Smallest bending radius, fixed installation	52 mm
Near end crosstalk attenuation (NEXT)	75 dB (with 1 MHz)
	66.3 dB (at 4 MHz)
	60.3 dB (at 10 MHz)
	57.2 dB (at 16 MHz)
	55.8 dB (at 20 MHz)
	52.9 dB (at 31.25 MHz)
	48.4 dB (at 62.5 MHz)
	45.3 dB (at 100 MHz)
	40.8 dB (at 200 MHz)
	38.1 dB (at 300 MHz)
	36.3 dB (at 400 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	34.8 dB (at 500 MHz)
	72.3 dB (with 1 MHz)
	63.3 dB (at 4 MHz)
	58.8 dB (at 8 MHz)
	57.3 dB (at 10 MHz)
	54.2 dB (at 16 MHz)
	52.8 dB (at 20 MHz)
	51.3 dB (at 25 MHz)
	49.9 dB (at 31.25 MHz)
	45.4 dB (at 62.5 MHz)
	42.3 dB (at 100 MHz)
Return attenuation (RL)	37.8 dB (at 200 MHz)
	35.1 dB (at 300 MHz)
	33.3 dB (at 400 MHz)
	31.8 dB (at 500 MHz)
	20 dB (with 1 MHz)
	23 dB (at 4 MHz)
	24.5 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	24.2 dB (at 25 MHz)
	23.3 dB (at 31.25 MHz)
	20.7 dB (at 62.5 MHz)

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	19 dB (at 100 MHz)
	16.4 dB (at 200 MHz)
	15.6 dB (at 300 MHz)
	15.6 dB (at 400 MHz)
	15.6 dB (at 500 MHz)
Shield attenuation	3.1 dB (with 1 MHz)
	5.7 dB (at 4 MHz)
	8.9 dB (at 10 MHz)
	11.2 dB (at 16 MHz)
	12.6 dB (at 20 MHz)
	15.8 dB (at 31.25 MHz)
	22.5 dB (at 62.5 MHz)
	28.7 dB (at 100 MHz)
	41.4 dB (at 200 MHz)
	51.4 dB (at 300 MHz)
Halogen-free	60.1 dB (at 400 MHz)
	67.9 dB (at 500 MHz)
Flame resistance	complying with IEC 60754-1/2
Ambient temperature (operation)	IEC 60332-1-2/IEC 60332-3-24/CM
Ambient temperature (installation)	-20 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)
	0 °C ... 60 °C

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	0 °C ... 40 °C

## Standards and regulations

Flame resistance	IEC 60332-1-2
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## Approvals

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**UL Listed**

Approval ID: E335024\_20210804



**cUL Listed**

Approval ID: E335024\_20210804

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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### ETIM

ETIM 9.0	EC001855
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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