

# NBC-R4OC/10,0-BC6A/R4OC-GR - Patch cable



1523705

<https://www.phoenixcontact.com/us/products/1523705>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Patch cable, degree of protection: IP20, cable length: 10 m, number of positions: 8, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## 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	1523705
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABNABH
GTIN	4063151990619
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	CN

# NBC-R4OC/10,0-BC6A/R4OC-GR - Patch cable



1523705

<https://www.phoenixcontact.com/us/products/1523705>

## Technical data

### Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	8
Shielded	yes
Cable outlet	straight

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

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

### Material specifications

Flammability rating according to UL 94	V0
Contact material	Brass
Contact surface material	Au
Contact carrier material	PC
Outer sheath, material	LSZH

### Connection data

#### Connection technology

Connection method	Pierce connection
-------------------	-------------------

#### Conductor connection

Connection method	Pierce connection
-------------------	-------------------

### Connector

#### Connection 1

Type	Plug straight RJ45
Handle color	green
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 80 °C

#### Connection 2

Type	Plug straight RJ45
Handle color	green
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

# NBC-R4OC/10,0-BC6A/R4OC-GR - Patch cable



1523705

<https://www.phoenixcontact.com/us/products/1523705>

Ambient temperature (operation)	-20 °C ... 80 °C
---------------------------------	------------------

## Cable/line

Cable length	10.00 m
--------------	---------

### Ethernet, Type B, 8-pos., CAT6A, LSZH [BC6A]

Shielded	yes
Cable type	Ethernet, Type B, 8-pos., CAT6A, LSZH
Cable type (abbreviation)	BC6A
Cable structure	4x2xAWG26/7; S/FTP
External cable diameter	6.50 mm ±0.3 mm
Outer sheath, material	LSZH
External sheath, color	gray
Thickness, outer sheath	approx. 0.70 mm
Conductor material	Bare Cu litz wires
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Material wire insulation	PE
Single wire, number of litz wires	8
Wire diameter incl. insulation	1 mm
Single wire, cross section [AWG]	26
Shielding	S/FTP
Optical shield covering	70 %
Cable insulation resistance	≥ 5000 MΩ*km
Wave impedance	100 Ω
Loop resistance	≤ 148.00 Ω/km
Minimum bending radius, fixed installation	8 x D
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)
Power-summated near end crosstalk attenuation (PSNEXT)	36.3 dB (at 400 MHz)
	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)	

# NBC-R4OC/10,0-BC6A/R4OC-GR - Patch cable



1523705

<https://www.phoenixcontact.com/us/products/1523705>

	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)
	37.8 dB (at 200 MHz)
	35.1 dB (at 300 MHz)
	33.3 dB (at 400 MHz)
	31.8 dB (at 500 MHz)
Return attenuation (RL)	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)
	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)	
Halogen-free	complying with IEC 60754-1/2
Flame resistance	IEC 60332-1-2/IEC 60332-3-24/CM
Ambient temperature (operation)	-20 °C ... 80 °C (Cable, flexible installation)
	-20 °C ... 80 °C (cable, fixed installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	0 °C ... 40 °C

## Standards and regulations

Flame resistance	IEC 60332-1-2
------------------	---------------

# NBC-R4OC/10,0-BC6A/R4OC-GR - Patch cable



1523705

<https://www.phoenixcontact.com/us/products/1523705>

## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002599
----------	----------

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)