

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

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, RJ45/IP20 straight on RJ45/IP20 straight, cable length: 7 m, number of positions: 8, connection cross section: AWG 26- 26, 4x2xAWG26/7; S/FTP, gray

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_A)

Commercial data

Item number	1698198
Packing unit	1 pc
Minimum order quantity	10 pc
Product key	ABNABH
GTIN	4067923263062
Weight per piece (including packing)	384 g
Weight per piece (excluding packing)	367 g
Customs tariff number	85444210
Country of origin	CN

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

Technical data

Product properties

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

Electrical properties

Rated voltage (III/2)	72 V
Transmission characteristics (category)	CAT6 _A
Power transmission	PoE++

Dimensions

Width	11.6 mm
Height	14.8 mm
Length	40 mm

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 _A (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)	gray
Flammability rating according to UL 94	V0

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 80 °C

Connection 2

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 _A (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)	gray
Flammability rating according to UL 94	V0
Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 80 °C

Cable/line

Cable length	7.00 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	gray
Conductor material	Bare Cu litz wires

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

Material wire insulation	PE
Single wires, quantity	8
Single wire, cross section [AWG]	26
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 Ω
Test voltage Core/Core	1000 V DC
	707 V AC
Test voltage Core/Shield	1500.00 V DC
	1010.00 V AC
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)
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)

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

	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)
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)
	60.1 dB (at 400 MHz)
	67.9 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, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)
Ambient temperature (installation)	0 °C ... 60 °C

Standards and regulations

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

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1698198>



UL Listed

Approval ID: E335024_20210804



cUL Listed

Approval ID: E335024_20210804

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

NBC-R4OC/7,0-BC6A/R4OC - Patch cable



1698198

<https://www.phoenixcontact.com/pc/products/1698198>

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com