

# NBC-R4ACS/0,5-94F/R4ACS - Patch cable



1113823

<https://www.phoenixcontact.com/us/products/1113823>

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: 0.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection cross section: AWG 26- 26, Ethernet, 4x2xAWG26/7; S/FTP, water blue RAL 5021

## Your advantages

- Perfect for industrial applications
- PUR cable for moving applications (bend)
- 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)
- Future-proof high-speed data transmission with up to 10 Gbps (CAT6<sub>A</sub>)

## Commercial data

Item number	1113823
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABF
GTIN	4063151037017
Weight per piece (including packing)	49.4 g
Weight per piece (excluding packing)	41.783 g
Customs tariff number	85444210
Country of origin	PL

1113823

<https://www.phoenixcontact.com/us/products/1113823>

## Technical data

### Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL IE8 CAT6A
Sensor type	Ethernet
Number of positions	8
Shielded	yes

### Interfaces

Signal type/category	Ethernet CAT6 <sub>A</sub> (IEC 11801), 10 Gbps
----------------------	---

### Electrical properties

Rated voltage (III/2)	72 V
Rated current	1.5 A
Insulation resistance	> 1 TΩ
Contact resistance	< 20 mΩ
Transmission speed	10 Gbps
Transmission characteristics (category)	CAT6 <sub>A</sub>
Transmission speed	10 Gbps

### Mechanical properties

#### Mechanical data

Insertion force per signal contact	50.00 N
Extraction force per signal contact	30 N

### Material specifications

Outer sheath, material	PUR
Conductor material	Copper, bare

### Dimensions

Width	13.8 mm
Height	14.8 mm
Length	44.2 mm

### Connector

#### Connection 1

Type	RJ45 Plug, straight, 8-position
Number of positions	8
Signal type/category	Ethernet CAT6 <sub>A</sub> (IEC 11801), 10 Gbps
Insertion/withdrawal cycles	≥ 750
Insertion force	50 N (per signal contact)
Withdrawal force	30 N (per signal contact)

# NBC-R4ACS/0,5-94F/R4ACS - Patch cable



1113823

<https://www.phoenixcontact.com/us/products/1113823>

Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn6
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PP
Color (Housing)	black
Flammability rating according to UL 94	V2
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C


## Connection 2

Type	RJ45 Plug, straight, 8-position
Number of positions	8
Signal type/category	Ethernet CAT6 <sub>A</sub> (IEC 11801), 10 Gbps
Insertion/withdrawal cycles	≥ 750
Insertion force	50 N (per signal contact)
Withdrawal force	30 N (per signal contact)
Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn6
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PP
Color (Housing)	black
Flammability rating according to UL 94	V2
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

## Cable/line

Cable length	0.50 m
--------------	--------

## Ethernet 10 Gbit [94F]

Dimensional drawing	
UL AWM Style	21238 (80 °C / 600 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet 10 Gbit [94F]

# NBC-R4ACS/0,5-94F/R4ACS - Patch cable



1113823

<https://www.phoenixcontact.com/us/products/1113823>

Conductor structure	4x2xAWG26/7; S/FTP
AWG signal line	26
Conductor cross-section	4x 2x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.05 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	70 %
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 290.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	51 mm
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in accordance with UN ECE-R 118.03
	according to CSA C 22.2 No. 210-FT1
Resistance to oil	in accordance with DIN EN 60811-404
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

Standards/specifications	IEC 60603-7
--------------------------	-------------

# NBC-R4ACS/0,5-94F/R4ACS - Patch cable



1113823

<https://www.phoenixcontact.com/us/products/1113823>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1113823>

 <b>UL Listed</b> Approval ID: E335024-V1S7				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	57 V	1.75 A	-	-

 <b>cUL Listed</b> Approval ID: E335024-V1S7				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	57 V	1.75 A	-	-

# NBC-R4ACS/0,5-94F/R4ACS - Patch cable



1113823

<https://www.phoenixcontact.com/us/products/1113823>

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

1113823

<https://www.phoenixcontact.com/us/products/1113823>

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