

# NBC-R4RC/1,0-93E/R4RC - Network cable



1408941

<https://www.phoenixcontact.com/us/products/1408941>

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.



Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP67 push/pull metal housing to RJ45 plug/IP67 push/pull metal housing, line, length: 1 m

## Commercial data

Item number	1408941
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB11
Product key	ABNABD
GTIN	4046356856706
Weight per piece (including packing)	179 g
Weight per piece (excluding packing)	169.42 g
Customs tariff number	85444210
Country of origin	PL

1408941

<https://www.phoenixcontact.com/us/products/1408941>

## Technical data

### Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL IE4 CAT5
Number of positions	4
Shielded	yes

### Interfaces

Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
----------------------	--

### Electrical properties

Rated voltage (III/3)	72 V (DC)
Nominal voltage $U_N$	48 V
Nominal current $I_N$	1 A
Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps

### Mechanical properties

#### Mechanical data

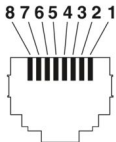
Insertion/withdrawal cycles	$\geq 200$
-----------------------------	------------

### Material specifications

Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

### Connector

#### Connection 1

Dimensional drawing	 <p>Connector pin assignment plug RJ45</p>
Type	RJ45 Plug, straight, 4-position, Push Pull
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
Insertion/withdrawal cycles	$\geq 200$

# NBC-R4RC/1,0-93E/R4RC - Network cable

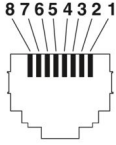


1408941

<https://www.phoenixcontact.com/us/products/1408941>

Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PA-GF
Color (Housing)	silver-colored
Flammability rating according to UL 94	V2
Degree of protection	IP67
	IP65
Ambient temperature (operation)	-40 °C ... 70 °C

## Connection 2

Dimensional drawing	 <p>Connector pin assignment plug RJ45</p>
Type	RJ45 Plug, straight, 4-position, Push Pull
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
Insertion/withdrawal cycles	≥ 200
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PA-GF
Color (Housing)	silver-colored
Flammability rating according to UL 94	V2
Degree of protection	IP67
	IP65
Ambient temperature (operation)	-40 °C ... 70 °C

## Cable/line

Cable length	1.00 m
--------------	--------

Ethernet flexible CAT5, 2-pair [93E]

# NBC-R4RC/1,0-93E/R4RC - Network cable



1408941

<https://www.phoenixcontact.com/us/products/1408941>

Dimensional drawing	
UL AWM Style	21238 (80 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	Ethernet flexible CAT5, 2-pair [93E]
Conductor structure	2x2xAWG26/7, SF/UTP
AWG signal line	26
Conductor cross-section	2x 2x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	0.95 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/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Optical shield covering	70 %
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 280.00 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 UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
Resistance to oil	in accordance with IEC 60811-404
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -30 °C ... 70 °C (Cable, flexible installation)

# NBC-R4RC/1,0-93E/R4RC - Network cable



1408941

<https://www.phoenixcontact.com/us/products/1408941>

## Standards and regulations

Standards/specifications

IEC PAS 61076-3-117

## Drawings

### Schematic diagram



Connector pin assignment plug RJ45



# NBC-R4RC/1,0-93E/R4RC - Network cable



1408941

<https://www.phoenixcontact.com/us/products/1408941>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1408941>



**EAC**

Approval ID: 19060508

# NBC-R4RC/1,0-93E/R4RC - Network cable



1408941

<https://www.phoenixcontact.com/us/products/1408941>

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

1408941

<https://www.phoenixcontact.com/us/products/1408941>

## 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.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	ddb5e44b-034c-4a1a-bcf2-ed350f71ec70

### EF3.1 Climate Change

CO2e kg	6.541 kg CO2e
---------	---------------

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)