

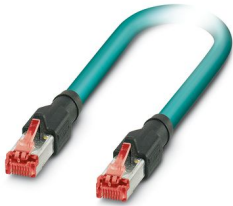
# NBC-R4AC/7,5-94Z/R4AC - Network cable



1022380

<https://www.phoenixcontact.com/us/products/1022380>

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, shielded, 4-pair, 26 AWG flexible (7-wire), RAL 5021 (water blue), RJ45 connector/IP20 to RJ45 connector/IP20, line, length: 7.5 m

## Commercial data

Item number	1022380
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABM
GTIN	4055626516288
Weight per piece (including packing)	370.1 g
Weight per piece (excluding packing)	367 g
Customs tariff number	85444210
Country of origin	CN

# NBC-R4AC/7,5-94Z/R4AC - Network cable



1022380

<https://www.phoenixcontact.com/us/products/1022380>

## Technical data

### Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Cable outlet	straight

### Insulation characteristics

Degree of pollution	2
---------------------	---

### Electrical properties

Rated voltage (III/3)	72 V (DC)
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 750
-----------------------------	-------

### Material specifications

Flammability rating according to UL 94	V2
----------------------------------------	----

### Connector

#### Connection 1

Type	Plug straight RJ45
Handle color	gray
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

#### Connection 2

Type	Plug straight RJ45
Handle color	gray
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

# NBC-R4AC/7,5-94Z/R4AC - Network cable



1022380

<https://www.phoenixcontact.com/us/products/1022380>

## Cable/line

Cable length	7.50 m
Ethernet flexible CAT5, 4-pair, SF/UTP [94Z]	
Shielded	yes
Cable type	Ethernet flexible CAT5, 4-pair, SF/UTP
Cable type (abbreviation)	94Z
Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps
Cable structure	4x2xAWG26/7, SF/UTP
External cable diameter	6.2 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm <sup>2</sup>
Material wire insulation	PE
Thickness, insulation	0.19 mm (Signal line)
Wire diameter incl. insulation	0.92 mm
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
Shielding	Tinned copper braided shield
Optical shield covering	85 %
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Cable resistance	≤ 290 Ω/km (at 20 °C)
Cable insulation resistance	≥ 500 MΩ*km (at 20 °C)
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Smallest bending radius, fixed installation	51.2 mm
Smallest bending radius, movable installation	51.2 mm
Halogen-free	according to IEC 60754-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Flame resistance	IEC 60332-1-2

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 70 °C (RJ45 connector)

# NBC-R4AC/7,5-94Z/R4AC - Network cable

1022380

<https://www.phoenixcontact.com/us/products/1022380>



## Drawings

### Schematic diagram



Connector pin assignment plug RJ45

# NBC-R4AC/7,5-94Z/R4AC - Network cable

1022380

<https://www.phoenixcontact.com/us/products/1022380>



Circuit diagram



# NBC-R4AC/7,5-94Z/R4AC - Network cable



1022380

<https://www.phoenixcontact.com/us/products/1022380>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1022380>



**EAC**

Approval ID: 19060508

# NBC-R4AC/7,5-94Z/R4AC - Network cable



1022380

<https://www.phoenixcontact.com/us/products/1022380>

## Classifications

### ECLASS

ECLASS-11.0	27060308
ECLASS-12.0	27440192
ECLASS-13.0	27060307

### ETIM

ETIM 8.0	EC002943
----------	----------

### UNSPSC

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

# NBC-R4AC/7,5-94Z/R4AC - Network cable



1022380

<https://www.phoenixcontact.com/us/products/1022380>

## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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)