

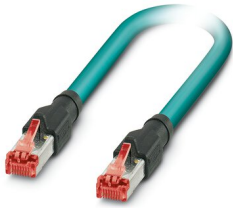
# NBC-R4AC/1,0-94Z/R4AC - Network cable



1403927

<https://www.phoenixcontact.com/pc/products/1403927>

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP20 to RJ45 plug/IP20, line, length: 1 m

## Commercial Data

Item number	1403927
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	ABNABM
Catalog Page	Page 386 (C-2-2019)
GTIN	4046356673945
Weight per Piece (including packing)	72.5 g
Weight per Piece (excluding packing)	59.5 g
Customs tariff number	85444210
Country of origin	CN

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## Technical Data

### Product properties

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

### Insulation characteristics

Degree of pollution	2
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### 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
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### Material specifications

Flammability rating according to UL 94	V2
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### 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

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## Cable/line

Cable length	1.00 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)

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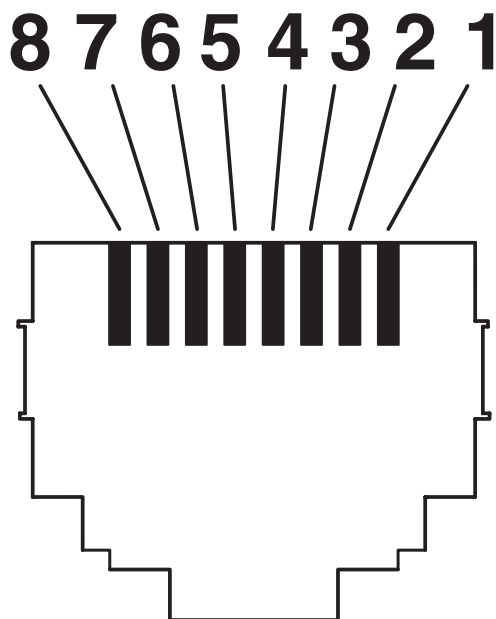


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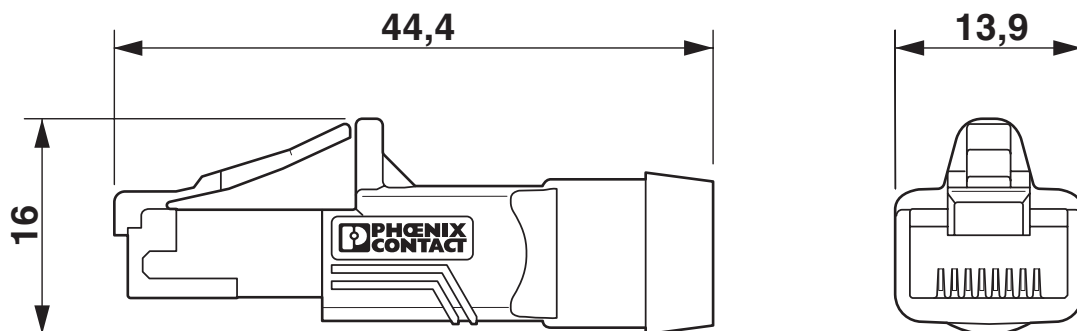
## Drawings

Schematic diagram



Connector pin assignment plug RJ45

Dimensional drawing



RJ45 connector, IP20

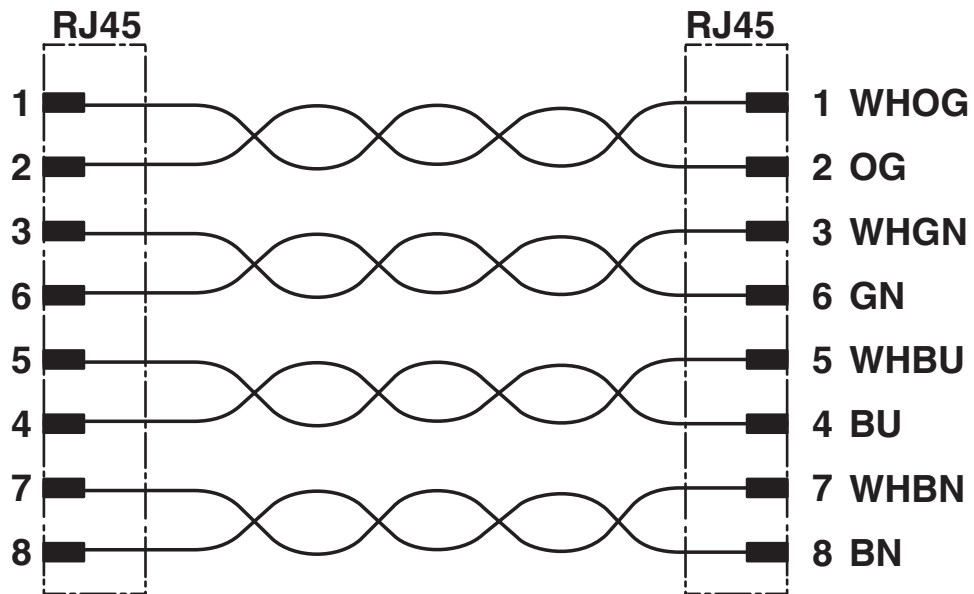
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Circuit diagram



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## Approvals

**EAC** **EAC**  
Approval ID: 19060508

**EAC** **EAC**  
Approval ID: B.00385/20

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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002599
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental Product Compliance

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

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