

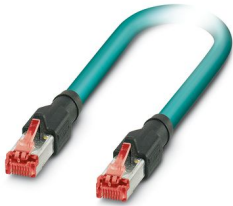
# NBC-R4AC/2,0-94Z/R4AC - Network cable



1403929

<https://www.phoenixcontact.com/us/products/1403929>

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Assembled Ethernet cable, shielded, 4-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP20 to RJ45 plug/IP20, line, length: 2 m

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1403929             |
| Packing unit                         | 1 pc                |
| Sales key                            | AB11                |
| Product key                          | ABNABM              |
| Catalog page                         | Page 386 (C-2-2019) |
| GTIN                                 | 4046356673969       |
| Weight per piece (including packing) | 118 g               |
| Weight per piece (excluding packing) | 115 g               |
| Customs tariff number                | 85444210            |
| Country of origin                    | CN                  |

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## 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)<br>Ni/Au (Contact surface)<br>PC (Contact carriers)<br>PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750  |
| Degree of protection        | IP20   |

#### Connection 2

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

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## Cable/line

|   |  |
|---|--|
| Cable length                                  | 2.00 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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## Drawings

### Schematic diagram



Connector pin assignment plug RJ45

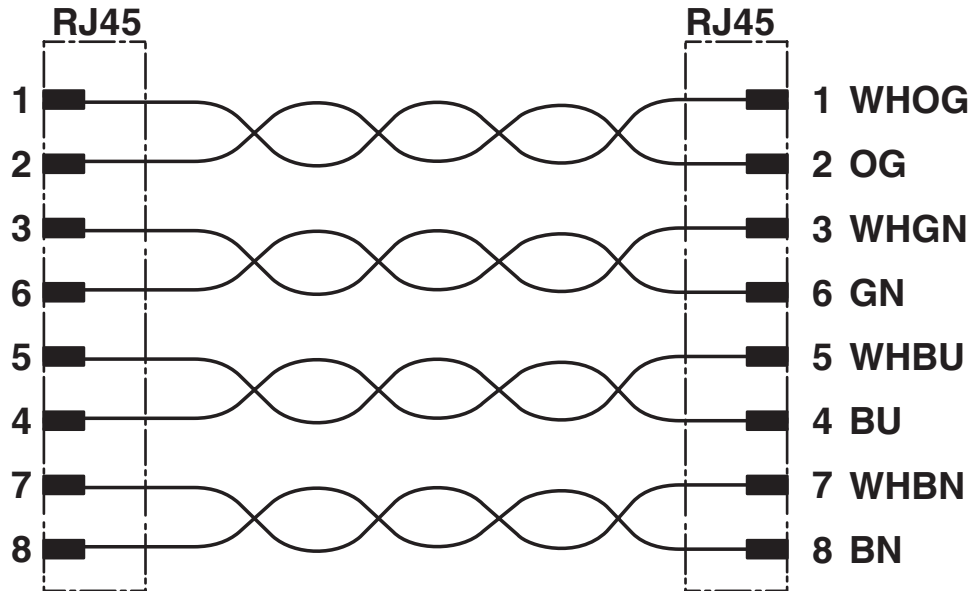
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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1403929>



**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060308 |
| ECLASS-12.0 | 27060308 |
| ECLASS-13.0 | 27060307 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002599 |
|----------|----------|

### 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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