

NBC-R4AC/5,0-94L/R4AC - Network cable



1199423

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Network cable, Ethernet CAT5e, 8-position, TPE, Teal, shielded, Plug straight RJ45 / IP20, on Plug straight RJ45 / IP20, cable length: 5 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1199423 |
| Packing unit | 1 pc |
| Sales key | AB11 |
| Product key | ABNABE |
| GTIN | 4063151258085 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Country of origin | US |

Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | Ethernet |
| Number of positions | 8 |
| No. of cable outlets | 1 |
| Number of slots | 1 |
| Shielded | yes |
| Cable outlet | straight |

Interfaces

| | |
|----------------------|--------------------------|
| Signal type/category | Ethernet CAT5e (Class D) |
|----------------------|--------------------------|

Signaling

| | |
|------------------------|----|
| Status display | No |
| Status display present | No |

Electrical properties

| | |
|-----------------------|---------|
| Nominal voltage U_N | 30 V AC |
| | 57 V DC |
| Nominal current I_N | 1.5 A |
| Transmission medium | Copper |

Mechanical properties

Mechanical data

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

Material specifications

| | |
|--|-----|
| Flammability rating according to UL 94 | V0 |
| Outer sheath, material | TPE |

Connector

Connection 1

| | |
|---------------------------------|---------------------------|
| Type | Plug straight RJ45 / IP20 |
| Number of positions | 8 (8) |
| Handle color | black |
| Material | (Contact) |
| | Gold (Contact surface) |
| | PVC (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |

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| | |
|-----------------------------|-----|
| Number of positions | 8 |
| Insertion/withdrawal cycles | 750 |


Connection 2

| | |
|---------------------------------|--|
| Type | Plug straight RJ45 / IP20 |
| Number of positions | 8 (8) |
| Handle color | black |
| Material | (Contact) Gold (Contact surface) PVC (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Number of positions | 8 |
| Degree of protection | IP20 |

Cable/line

| | |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

Highly flexible Ethernet CAT5e [94L]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Shielded | yes |
| UL AWM Style | 2463 (80 °C / 600 V) |
| Cable type | Highly flexible Ethernet CAT5e |
| Cable type (abbreviation) | 94L |
| Signal type/category | Ethernet CAT5e (TIA 568B) |
| Cable structure | 4x2xAWG24/7; SF/UTP |
| External cable diameter | 7.4 mm ±0.25 mm |
| Outer sheath, material | TPE |
| External sheath, color | Teal |
| Conductor material | Tin-plated Cu litz wires |
| Conductor structure signal line | 7x 0.20 mm (7x32) |
| AWG signal line | 24 |
| Conductor cross section | 4x 2x 0.2 mm² |
| Material wire insulation | PE |
| Wire diameter incl. insulation | 1.2 mm |
| Single wire, color | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs | 2 cores to the pair |

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| | |
|---|---|
| Overall twist | 4 pairs for core |
| Shielding | Aluminum-lined polyester foil, tinned copper braided shield |
| Optical shield covering | 75 % |
| Nominal voltage, cable | 600 V |
| Test voltage, cable | 2000 V |
| Wave impedance | 100 Ω \pm 15 Ω (at 100 MHz) |
| Cable impedance | 100 Ω \pm 15 Ω (at 1 ... 100 MHz) |
| Number of bending cycles | 1000000 |
| Minimum bending radius, drag chain applications | 10 x D |
| Traversing path | 0.23 m |
| Traversing rate | 1.5 m/s |
| Acceleration | 20.5 m/s ² |
| Number of bending cycles | 10000000 |
| Minimum bending radius, drag chain applications | 20 X D |
| Torsion force | 360 °/m (1 lb. load) |
| Torsion cycles | 4800000 |
| Torsional frequency | 71 (cycles/min) |
| Ambient temperature (operation) | 20 °C |
| Near end crosstalk attenuation (NEXT) | 50 dB (with 100 MHz (IEC 62153-4-9)) |
| Return loss (RL) | 20 dB (at 10 MHz (+6LOG)) |
| | 26 dB (at 20 MHz) |
| | 26 dB (at 100 MHz (-5LOG)) |
| Flame resistance | VW-1 |
| Other resistance | Resistant to welding splashes Abrasion and oil resistance |
| | UV resistant CMX outdoor |
| Ambient temperature (operation) | -40 °C ... 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Degree of protection | IP20 (RJ45 connector) |
| | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C (RJ45 connector) |

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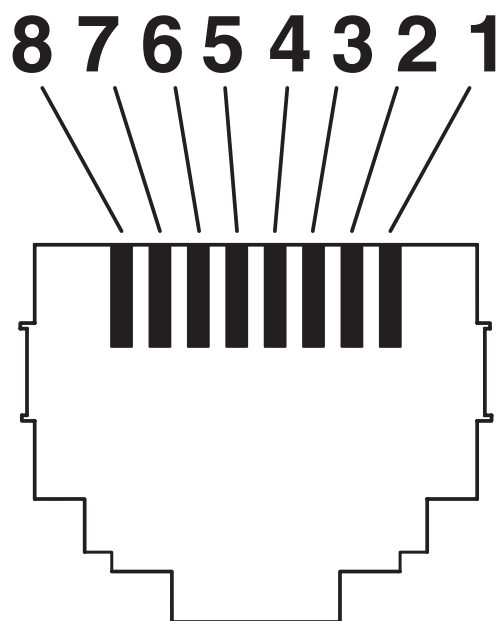
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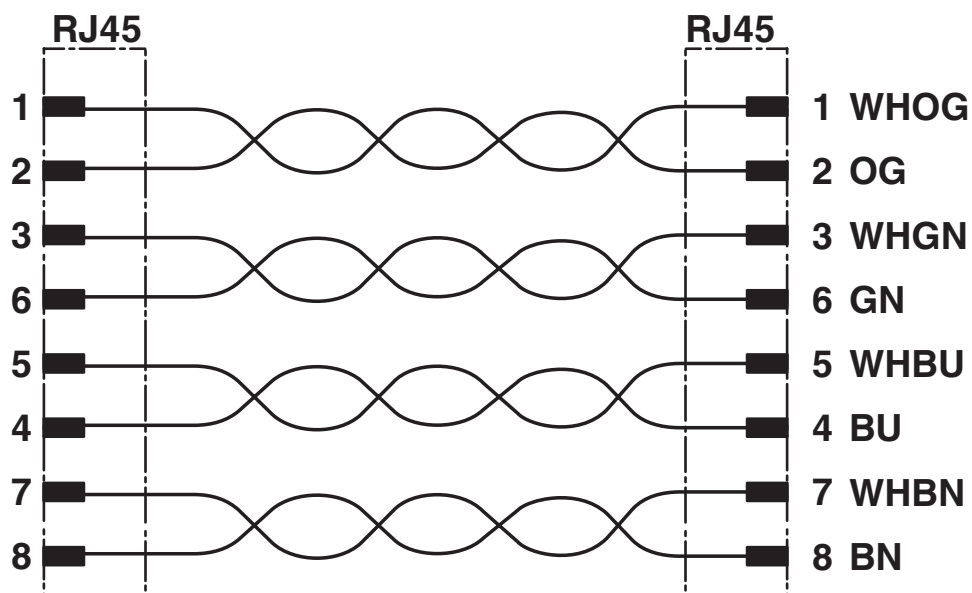
Drawings

Schematic diagram

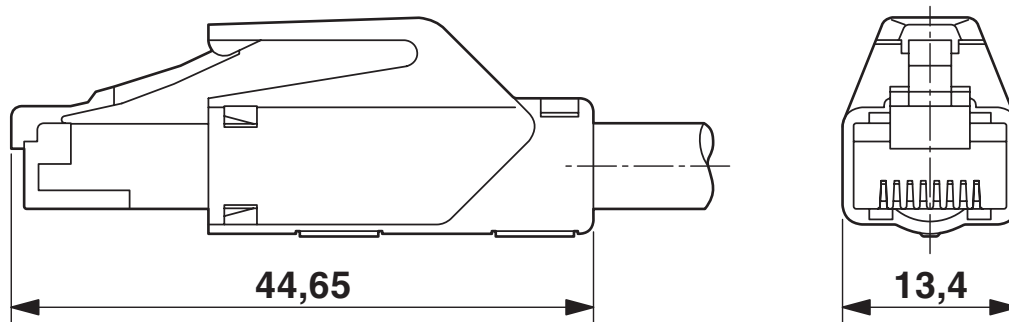


Connector pin assignment plug RJ45

Circuit diagram



Dimensional drawing



RJ45 connector, IP20

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1199423>



UL Listed

Approval ID: File E335024

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 60 V | 0.5 A | - | - |



cUL Listed

Approval ID: File E335024

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 60 V | 0.5 A | - | - |

cULus Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27469090 |
| ECLASS-12.0 | 27469090 |
| ECLASS-13.0 | 27469090 |

ETIM

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

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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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