

Network cable - NBC-R4QC/2,0-93B/R4QC - 1408979

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Assembled PROFINET cable, CAT5e, shielded, star quad, 22 AWG stranded (7-wire), RAL 6018 (yellow-green), RJ45 plug/IP67 push/pull plastic housing to RJ45 plug/IP67 push/pull plastic housing, line, length: 2 m



Key commercial data

| | |
|----------------------|----------|
| Packing unit | 1 pc |
| Custom tariff number | 85444210 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

Ambient conditions

| | |
|----------------------|-----------------------|
| Degree of protection | IP67 (RJ45 connector) |
|----------------------|-----------------------|

General data

| | |
|------------------------|--|
| Rated current at 40°C | 1 A |
| Rated voltage | 50 V |
| Number of positions | 4 |
| Signal type/category | PROFINET CAT5 (IEC 11801:2002), 100 Mbps |
| | PROFINET CAT5e (TIA 568B:2001), 100 Mbps |
| Standards/regulations | IEC PAS 61076-3-117 |
| Surge voltage category | I |
| Pollution degree | 2 |

Characteristics head 1

| | |
|--|-------------------------------------|
| Head type | Plug Straight RJ45 Push Pull / IP67 |
| No. of positions (pin connector pattern) | 4 (8) |

Network cable - NBC-R4QC/2,0-93B/R4QC - 1408979

Technical data

Characteristics head 1

| | |
|---------------------------------|-------------------------|
| Color | black |
| Material (component) | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PC (Contact carriers) |
| | PA GF (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Ambient temperature (operation) | -40 °C ... 70 °C |

Characteristics head 2

| | |
|--|-------------------------------------|
| Head type | Plug Straight RJ45 Push Pull / IP67 |
| No. of positions (pin connector pattern) | 4 (8) |
| Color | black |
| Material (component) | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PC (Contact carriers) |
| | PA GF (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Ambient temperature (operation) | -40 °C ... 70 °C |

Cable

| | |
|--|--|
| Cable type | PROFINET PVC stranded CAT5e |
| Cable type (abbreviation) | 93B |
| UL AWM style | 21694 |
| Signal type/category | PROFINET CAT5 (IEC 11801:2002), 100 Mbps |
| | PROFINET CAT5e (TIA 568B:2001), 100 bps |
| Cable structure | 1x4xAWG22/7; SF/TQ |
| Conductor cross section | 4x 0.34 mm ² |
| AWG signal line | 22 |
| Conductor structure signal line | 7x 0.25 mm |
| Core diameter including insulation | approx. 1.5 mm |
| Wire colors | White, yellow, blue, orange |
| Overall twist | Star quad |
| Shielding | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | Green RAL 6018 |
| Outer sheath thickness | approx. 0.9 mm |
| External cable diameter D | 6.5 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 3 x D |

Network cable - NBC-R4QC/2,0-93B/R4QC - 1408979

Technical data

Cable

| | |
|---|---|
| Minimum bending radius, flexible installation | 7 x D |
| Torsion force | ± 180 °/m (30,000 torsion cycles) |
| Cable weight | 67 kg/km |
| Outer sheath, material | PVC |
| Material, inner sheath | PVC |
| Material conductor insulation | PE |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 500 MΩ*km |
| Loop resistance | ≤ 120 Ω (per kilometer) |
| Working capacitance | 52 pF |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Coupling resistance | ≤ 20.00 mΩ/m |
| Nominal voltage, cable | 600 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000 V (50 Hz, 1 min.) |
| Flame resistance | According to UL 1685 (CSA FT 4) |
| Resistance to oil | Resistant to oil to a limited extent |
| Other resistance | UV resistant According to UL 1581, Section 1200 |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -40 °C ... 70 °C (cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -50 °C ... 70 °C |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC000830 |
|----------|----------|

Network cable - NBC-R4QC/2,0-93B/R4QC - 1408979

Classifications

ETIM

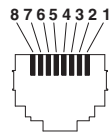
| | |
|----------|----------|
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11 | 26121604 |
| UNSPSC 12.01 | 31261501 |
| UNSPSC 13.2 | 26121616 |

Drawings

Schematic diagram



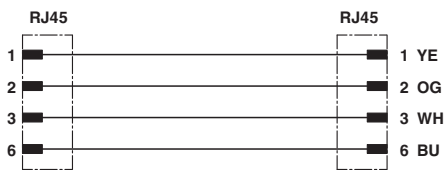
Connector pin assignment plug RJ45

Cable cross section



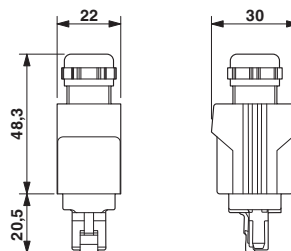
PROFINET PVC stranded CAT5e [93B]

Circuit diagram



Contact assignment of RJ45 plugs

Dimensioned drawing



RJ45 Push-Pull connector, IP67