

Network cable - NBC-MRD/ 2,0-93E/FRD SCO US - 1406124


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Network cable, Ethernet, 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug angled M12 SPEEDCON / IP67, Coding: D, on Socket angled M12 SPEEDCON / IP67, Coding: D, Cable length: 2 m



Key commercial data

| | |
|----------------------|---|
| Packing unit | 1 PCE |
| GTIN |  4 046356 799256 |
| Custom tariff number | 85444210 |
| Country of origin | GERMANY |

Technical data

Dimensions

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

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

General data

| | |
|-----------------------|---------------------------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 250 V |
| Number of positions | 4 |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002) |
| | Ethernet CAT5e (TIA 568B:2001) |
| Standards/regulations | M12 plug-in connector IEC 61076-2-101 |

Characteristics head 1

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Technical data

Characteristics head 1

| | |
|-------------|---------------------------------|
| Head design | Plug angled M12 SPEEDCON / IP67 |
| Coding | D (Data) |

Characteristics head 2

| | |
|-------------|-----------------------------------|
| Head design | Socket angled M12 SPEEDCON / IP67 |
| Coding | D (Data) |

Line characteristics

| | |
|---|--|
| Cable type | Ethernet |
| Cable type (abbreviation) | 93E |
| UL AWM style | 20963 (80°C/30 V) |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002) |
| | Ethernet CAT5e (TIA 568B:2001) |
| Cable structure | 2x2xAWG26/7; SF/UTP |
| Conductor cross section | 2x 2x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 0.98 mm |
| Wire colors | white/orange-orange, white/green-green |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Two pairs with two fillers to the core |
| Shielding | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering | 70 % |
| External sheath, color | water blue RAL 5021 |
| External cable diameter D | 6.4 mm ± 0.2 mm |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Tensile strength short-term/long-term | ≤ 80N |
| Cable weight | 42 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | Foamed PE |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 500 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 290 Ω/km (at 20 °C) |
| Working capacitance | 45 nF (At 1 kHz) |
| Wave impedance | 100 Ω ± 5 Ω (At 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Nominal voltage, cabel | ≤ 100 V |

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Line characteristics

| | |
|---|---|
| | 300 V (Outer cable sheath) |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700 V (50 Hz, 1 min.) |
| Flame resistance | IEC 60332-1-2 |
| Halogen-free | According to IEC 60754-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 80 °C |
| Ambient temperature (storage/transport) | -20 °C ... 80 °C |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

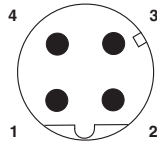
UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

Drawings

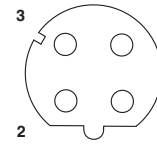
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Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

Cable cross section



Ethernet [93E]

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Circuit diagram

