

Network cable - NBC-MS/ 0,5-94B/FS SCO US - 1408747


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Network cable, Ethernet, 8-position, PUR halogen-free, water blue RAL 5021, shielded, Plug Straight M12 SPEEDCON / IP67, Coding: A, on Socket Straight M12 SPEEDCON / IP67, Coding: A, Cable length: 0.5 m



Key commercial data

| | |
|----------------------|---|
| Packing unit | 1 PCE |
| GTIN |  4 046356 828598 |
| Custom tariff number | 85444210 |
| Country of origin | GERMANY |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 0.5 m |
|-----------------|-------|

Ambient conditions

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

General data

| | |
|-----------------------|--|
| Rated current at 40°C | 2 A |
| Rated voltage | 30 V |
| Number of positions | 8 |
| 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 Straight M12 SPEEDCON / IP67 |
| Coding | A (Standard) |

Characteristics head 2

| | |
|-------------|-------------------------------------|
| Head design | Socket Straight M12 SPEEDCON / IP67 |
| Coding | A (Standard) |

Line characteristics

| | |
|---|--|
| Cable type | Ethernet |
| Cable type (abbreviation) | 94B |
| UL AWM style | 20963 (80 °C / 60 V) |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002) |
| | Ethernet CAT5e (TIA 568B:2001) |
| Cable structure | 4x2xAWG26/7; SF/UTP |
| Conductor cross section | 4x 2x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 0.98 mm |
| Thickness, insulation | 0.25 mm (signal line) |
| | 1 mm (Outer cable sheath) |
| Wire colors | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 4 pairs |
| 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 |
| Smallest bending radius, fixed installation | 25.6 mm |
| Smallest bending radius, movable installation | 51.2 mm |
| Tensile strength short-term/long-term | ≤ 100 N |
| Cable weight | 47 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | 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 | 48 nF (At 1 kHz) |
| Wave impedance | 100 Ω ± 5 Ω (At 100 MHz) |

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Technical data

Line characteristics

| | |
|---|---|
| Signal runtime | 5.3 ns/m |
| Coupling resistance | ≤ 100.00 mΩ/m (At 10 MHz) |
| Nominal voltage, cabel | ≤ 100 V (at 20 °C) |
| | 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

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

UNSPSC

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

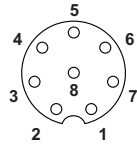
eCl@ss

| | |
|------------|----------|
| 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 | 27060308 |

Drawings

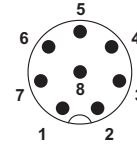
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Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

Schematic diagram



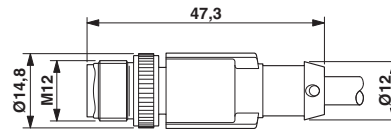
Pin assignment M12 plug, 8-pos., A-coded, view plug side

Cable cross section



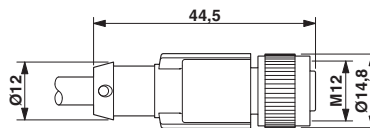
Ethernet [94B]

Dimensioned drawing



Plug, M12 x 1, straight, shielded

Dimensioned drawing



M12 x 1 socket, straight, shielded

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Circuit diagram

