

NBC-M12MSD/ 0,5-93E/M12MSD CO - Network cable



1401599

<https://www.phoenixcontact.com/us/products/1401599>

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 documentation. Our general terms of use for downloads are valid.



Network cable, Ethernet, 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, coding: D, on Plug straight M12, coding: D, cable length: 0.5 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1401599 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF04 |
| Product key | AF1CJI |
| GTIN | 4046356566667 |
| Weight per piece (including packing) | 60 g |
| Weight per piece (excluding packing) | 59.2 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

1401599

<https://www.phoenixcontact.com/us/products/1401599>

Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | Ethernet |
| Number of positions | 4 |
| Shielded | yes |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Interfaces

| | |
|----------------------|----------|
| Bus system | Ethernet |
| Signal type/category | Ethernet |

Electrical properties

| | |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 48 V AC |
| | 60 V DC |
| Nominal current I_N | 4 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|------------|

Material specifications

| | |
|--|-----|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| | NBR |

Connector

Connection 1

| | |
|-------------|---|
| Type | Plug straight M12 |
| Coding type | D (Data) |
| Material | CuZn (Contact) |
| | Ni/Au (Contact surface) |
| | PA (Contact carrier) |
| | TPU, hardly inflammable, self-extinguishing (Grip body) |
| | Zinc die-cast, nickel-plated (Screw connection) |

Connection 2

| | |
|-------------|-------------------|
| Type | Plug straight M12 |
| Coding type | D (Data) |

NBC-M12MSD/ 0,5-93E/M12MSD CO - Network cable



1401599

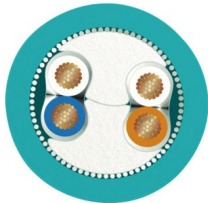
<https://www.phoenixcontact.com/us/products/1401599>

| | |
|----------|---|
| Material | CuZn (Contact) |
| | Ni/Au (Contact surface) |
| | PA (Contact carrier) |
| | TPU, hardly inflammable, self-extinguishing (Grip body) |
| | Zinc die-cast, nickel-plated (Screw connection) |

Cable/line

| | |
|--------------|-------|
| Cable length | 0.5 m |
|--------------|-------|

Ethernet [930]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 54 kg/km |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | Ethernet [930] |
| Signal runtime | 46 ns/m |
| Signal speed | 0.72 c |
| Conductor structure signal line | 7x 0.20 mm |
| AWG signal line | 24 |
| Conductor cross-section | 0.25 mm ² |
| Wire diameter incl. insulation | 1.4 mm |
| External cable diameter | 8 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | Cell PE |
| Single wire, color | white-green, white-orange |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | 2 cores with 2 fillers to the core |
| Optical shield covering | 65 % |
| Max. conductor resistance | 84 mΩ/m |
| Insulation resistance | 5 GΩ*km |
| Wave impedance | 100 Ω ±5 % |
| Working capacitance | 42.5 pF |
| Nominal voltage, cable | 125 V |
| Test voltage | 1000 V |

NBC-M12MSD/ 0,5-93E/M12MSD CO - Network cable



1401599

<https://www.phoenixcontact.com/us/products/1401599>

| | |
|---|---|
| Smallest bending radius, fixed installation | min. 40 mm |
| Smallest bending radius, movable installation | min. 40 mm |
| Shield attenuation | 60.00 dB (up to 1000 MHz) |
| Ambient temperature (operation) | -20 °C ... 70 °C (cable, fixed installation) |
| | 0 °C ... 50 °C (Cable, flexible installation) |

Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



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

1401599

<https://www.phoenixcontact.com/us/products/1401599>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

1401599

<https://www.phoenixcontact.com/us/products/1401599>

Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com