

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable



1192155

<https://www.phoenixcontact.com/us/products/1192155>

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 CAT5e (100 Mbps), 4-position, TPE, highly flexible, turquoise, shielded, Plug straight M12, coding: D / IP65, on Plug straight M12, coding: D / IP65, cable length: 0.5 m



Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1192155 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF15 |
| Product key | AF1IHC |
| GTIN | 4063151250461 |
| Weight per piece (including packing) | 56 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | US |

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable

1192155

<https://www.phoenixcontact.com/us/products/1192155>



Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Application | Standard, U.S. cables |
| Sensor type | Ethernet |
| Number of positions | 4 |
| Shielded | yes |
| Coding | D |

Interfaces

| | |
|----------------------|--------------------------|
| Bus system | Ethernet |
| Signal type/category | Ethernet CAT5e, 100 Mbps |

Signaling

| | |
|------------------------|----|
| Status display | no |
| Status display present | no |

Electrical properties

| | |
|-----------------------|--|
| Nominal voltage U_N | 48 V AC 60 V DC |
| Nominal current I_N | 4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed) |
| Transmission medium | Copper |
| Transmission speed | 100 Mbps |

Material specifications

| | |
|-------------------------------|---|
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material for screw connection | Zinc die-cast, nickel-plated |

Connector

Connection 1

| | |
|----------------------|---|
| Type | Plug straight M12 / IP65 |
| Coding type | D (Data) |
| Material | CuSn (Contact) Ni/Au (Contact surface) PA (Contact carrier) TPU, hardly inflammable, self-extinguishing (Grip body) Zinc die-cast, nickel-plated (Screw connection) FKM (Seal) |
| Degree of protection | IP65 |

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable

1192155

<https://www.phoenixcontact.com/us/products/1192155>



Connection 2

| | |
|----------------------|---|
| Type | Plug straight M12 / IP65 |
| Coding type | D (Data) |
| Material | CuSn (Contact) Ni/Au (Contact surface) PA (Contact carrier) TPU, hardly inflammable, self-extinguishing (Grip body) Zinc die-cast, nickel-plated (Screw connection) FKM (Seal) |
| Degree of protection | IP65 |

Cable/line

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

Highly flexible Ethernet CAT5e [93F]

| | |
|---------------------------------|--|
| Dimensional drawing | |
| UL AWM Style | 2463 (80 °C / 600 V) |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | Highly flexible Ethernet CAT5e [93F] |
| Conductor structure | 2x2xAWG24/7, SF/UTP |
| Conductor structure signal line | 7x 0.20 mm (7x32) |
| AWG signal line | 24 |
| Conductor cross section | 2x 2x 0.2 mm ² |
| Wire diameter incl. insulation | 1.2 mm |
| External cable diameter | 6.70 mm ±0.25 mm |
| Outer sheath, material | TPE |
| External sheath, color | turquoise |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PE |
| Single wire, color | white/orange-orange, white/green-green |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 2 pairs to the core |
| Optical shield covering | 75 % |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Cable impedance | 100 Ω ±15 Ω (at 1 ... 100 MHz) |
| Nominal voltage, cable | 600 V |

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable



1192155

<https://www.phoenixcontact.com/us/products/1192155>

| | |
|---------------------------------------|--|
| Test voltage | 2000 V |
| Dynamic load capacity (bending) | Max. bending cycles: 1000000, Bending radius: 10 x D, Traversing path: 0.23 m, Traversing rate: 1.5 m/s, Acceleration: 20.5 m/s ² |
| Dynamic load capacity (torsion) | Max. bending cycles: 20000000, Bending radius: 20 X D (126 cycles/min. at 20 °C) |
| Near end crosstalk attenuation (NEXT) | 50 dB (with 100 MHz (IEC 62153-4-9)) |
| Return attenuation (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 | IP65 |
| | IP65 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (M12 connector) |

Standards and regulations

M12

| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable

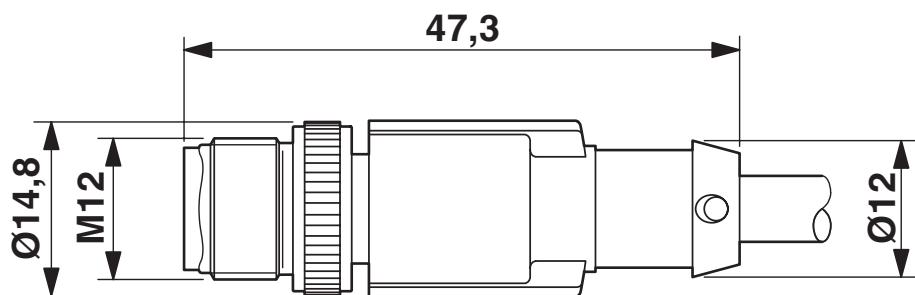


1192155

<https://www.phoenixcontact.com/us/products/1192155>

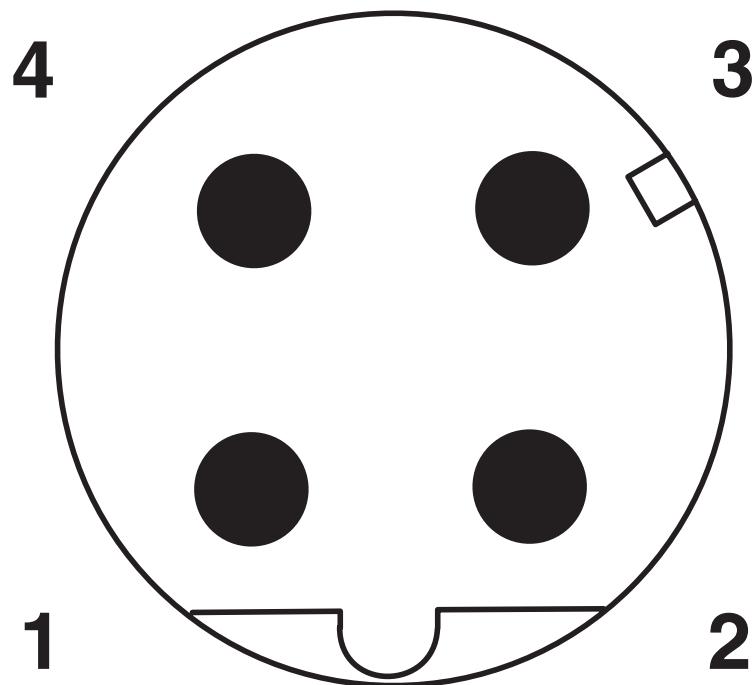
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



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

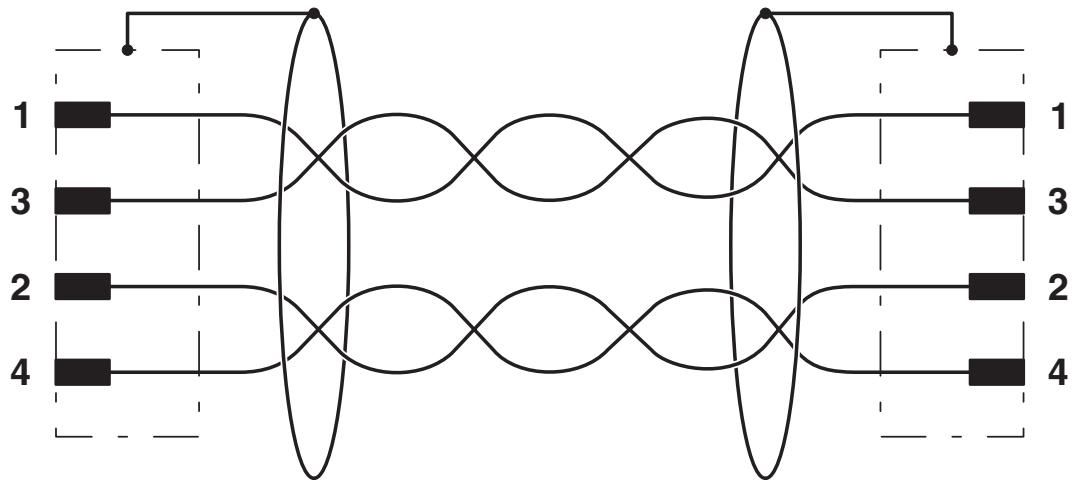
NBC-M12MSD/ 0,5-93F/M12MSD - Network cable



1192155

<https://www.phoenixcontact.com/us/products/1192155>

Circuit diagram



Contact assignment of the M12 plugs

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable



1192155

<https://www.phoenixcontact.com/us/products/1192155>

Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1192155>



UL Listed

Approval ID: FILE E 335024

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | 60 V | 1.5 A | - | - |



cUL Listed

Approval ID: File E335024

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | 60 V | 1.5 A | - | - |

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable

1192155

<https://www.phoenixcontact.com/us/products/1192155>



Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

UNSPSC

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

NBC-M12MSD/ 0,5-93F/M12MSD - Network cable

1192155

<https://www.phoenixcontact.com/us/products/1192155>



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.) | bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof(CAS: 26040-51-7) |
|-------------------------------------|---|

Phoenix Contact 2025 © - 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