

NBC-M12MSD/40,0-93F/M12MSD - Network cable



1192147

<https://www.phoenixcontact.com/us/products/1192147>

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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: 40 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1192147 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF15 |
| Product key | AF1IHC |
| GTIN | 4063151319571 |
| Weight per piece (including packing) | 2,180.6 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | US |

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Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Application | Standard, U.S. cables |
| 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 |
| | RJ45 30 V AC/57 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 |

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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 | 40 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 |

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| | |
|---------------------------------------|--|
| 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 |
| | Max. bending cycles: 20000000, Bending radius: 20 X D (126 cycles/min. at 20 °C) |
| Dynamic load capacity (torsion) | Torsion: 360 °/m (1 lb. load), Torsion cycles: 3000000, Torsional frequency: 71 cycles/min, Ambient temperature (operation): 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 |

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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



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

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Circuit diagram



Contact assignment of the M12 plugs

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1192147>

|  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 | - | - |

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Classifications

ECLASS

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

UNSPSC

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

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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) |
|-------------------------------------|---|

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