

Network cable - NBC-M12MSD/30,0-93F/M12MSD - 1192148


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Network cable, Ethernet CAT5e (100 Mbps), 4-position, TPE, Teal, shielded, Plug straight M12 / IP65, coding: D, on Plug straight M12 / IP65, coding: D, cable length: 30 m



Key Commercial Data

| | |
|-------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 063151 319588 |
| GTIN | 4063151319588 |
| Country of origin | United States |

Technical data

Dimensions

| | |
|-----------------|------|
| Length of cable | 30 m |
|-----------------|------|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Degree of protection | IP65 |
| Ambient temperature (operation) | -25 °C ... 85 °C (M12 connector) |

General data

| | |
|-----------------------|--|
| Rated current at 40°C | 4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed) |
| Rated voltage | 48 V AC |
| | 60 V DC |
| Number of positions | 4 |
| Signal type/category | Ethernet CAT5e, 100 Mbps |
| Standards/regulations | M12 connector IEC 61076-2-101 |

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Technical data

General data

| | |
|---|----------|
| Contact material | CuSn |
| Contact carrier material | TPU GF |
| Contact surface material | Ni/Au |
| Transmission characteristics (category) | CAT5e |
| Transmission speed | 100 Mbps |

Characteristics head 1

| | |
|-----------|--------------------------|
| Head type | Plug straight M12 / IP65 |
| Coding | D (Data) |

Characteristics head 2

| | |
|-----------|--------------------------|
| Head type | Plug straight M12 / IP65 |
| Coding | D (Data) |

Standards and Regulations

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

Cable

| | |
|---|---|
| Cable type (abbreviation) | 93F |
| UL AWM style | 2463 (80 °C / 600 V) |
| Signal type/category | Ethernet CAT5e (TIA 568B) |
| Cable structure | 2x2xAWG24/7; SF/UTP |
| Conductor cross section | 2x 2x 0.2 mm ² |
| AWG signal line | 24 |
| Conductor structure signal line | 7x 0.20 mm (7x32) |
| Core diameter including insulation | 1.2 mm |
| Wire colors | white/orange-orange, white/green-green |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 2 pairs to the core |
| Shielding | Aluminum-lined polyester foil, tinned copper braided shield |
| Optical shield covering | 75 % |
| External sheath, color | Teal |
| External cable diameter D | 6.7 mm ±0.25 mm |
| Number of bending cycles | 1000000 |
| Minimum bending radius, drag chain applications | 10 x D |
| Number of bending cycles | 20000000 |
| Minimum bending radius, drag chain applications | 20 X D |
| Torsion force | 1 lb. load |
| Torsion cycles | 3000000 |

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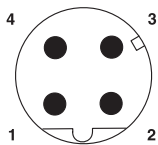
Technical data

Cable

| | |
|---------------------------------------|---|
| Torsional frequency | 71 (cycles/min) |
| Ambient temperature (operation) | 20 °C |
| Outer sheath, material | TPE |
| Material conductor insulation | PE |
| Conductor material | Tin-plated Cu litz wires |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Near end crosstalk attenuation (NEXT) | 50 dB (with 100 MHz (IEC 62153-4-9)) |
| Return loss (RL) | 20 dB (at 10 MHz (+6LOG)) |
| | 26 dB (at 20 MHz) |
| | 26 dB (at 100 MHz (-5LOG)) |
| Cable impedance | 100 Ω ±15 Ω (at 1 ... 100 MHz) |
| Nominal voltage, cable | 600 V |
| Test voltage, cable | 2000 V |
| 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) |
| Shielded | yes |

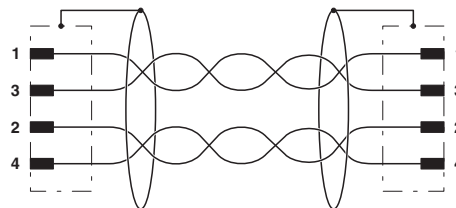
Drawings

Schematic diagram



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

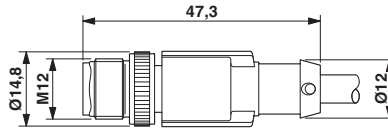
Circuit diagram



Contact assignment of the M12 plugs

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Dimensional drawing



Plug, M12 x 1, straight, shielded

Cable cross section



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Classifications

eCl@ss

| | |
|-------------|----------|
| eCl@ss 9.0 | 27060308 |
| eCl@ss 11.0 | 27060307 |

Approvals


Approvals


Approvals


UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|--------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | File E335024 |
| | | | |
| Nominal voltage UN | 60 V | | |
| Nominal current IN | 1.5 A | | |

| | | | |
|--------------------|---|---|--------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | File E335024 |
| | | | |
| Nominal voltage UN | 60 V | | |
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| | | | |
|--------------|---|--|--|
| cULus Listed |  | | |
|--------------|---|--|--|

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