

1406124

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Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), Plug angled M12, coding: D / IP67, on Socket angled M12, coding: D / IP67, cable length: 2 m

Commercial data

| Item number | 1406124 |
|--------------------------------------|--------------------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF15 |
| Product key | BF1IHA |
| GTIN | 4046356799256 |
| Weight per piece (including packing) | 118.9 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 |
|---------------------|-------------------------|
| Sensor type | Ethernet |
| Number of positions | 4 |
| Application | Standard, U.S. cables |
| Shielded | yes |
| Coding | D |

Interfaces

| Bus system | Ethernet |
|----------------------|-------------------------------------|
| Signal type/category | Ethernet CAT5 (IEC 11801), 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 characteristics (category) | CAT5 (IEC 11801:2002) |

Material specifications

| Seal material NBR |
|-------------------|
|-------------------|

Connector

Connection 1

| Туре | Plug angled M12 / IP67 |
|----------------------|--|
| Coding type | D (Data) |
| Handle color | black |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PA (Contact carriers) |
| | TPU, hardly inflammable, self-extinguishing (Grip) |
| | Zinc die-cast, nickel-plated (Screw connection) |
| | FKM (Seal) |
| Degree of protection | IP67 |

Connection 2

| 0000 | |
|------|--------------------------|
| Туре | Socket angled M12 / IP67 |



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| Coding type | D (Data) |
|----------------------|----------|
| Degree of protection | IP67 |

Cable/line

| Cable length | 2 m |
|--------------|-------|
| Cable length | 2 111 |

Ethernet flexible CAT5, 2-pair [93E]

Dimensional drawing



| Cable weight | 42 kg/km |
|---------------------------------|---|
| UL AWM Style | 20963 (80°C/30 V) |
| Wiring standards/regulations | Electrical requirements EN 50288-2-2 |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | Ethernet flexible CAT5, 2-pair [93E] |
| Conductor structure | 2x2xAWG26/7, SF/UTP |
| Signal runtime | 5.3 ns/m |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross section | 2x 2x 0.14 mm² |
| Wire diameter incl. insulation | 0.98 mm |
| External cable diameter | 6.40 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | Foamed PE |
| Single wire, color | white/orange-orange, white/green-green |
| Thickness, outer sheath | 1.20 mm |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Two pairs with two fillers to the core |
| Optical shield covering | 70 % |
| Insulation resistance | ≥ 500 MΩ*km |
| Coupling resistance | ≤ 100.00 mΩ/m (at 10 MHz) |
| Loop resistance | ≤ 290.00 Ω/km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Cable capacity | approx. 45 nF/km (at 1 kHz) |
| Nominal voltage, cable | ≤ 100 V (Peak value, not for high-power applications) |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| | |



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| Test voltage Core/Shield | 700.00 V (50 Hz, 1 min.) |
|--|--------------------------------------|
| Current carrying capacity of cable | 2.00 A (according to DIN VDE 0891-1) |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Smallest bending radius, fixed installation | 26 mm |
| Smallest bending radius, movable installation | 52 mm |
| Tensile strength | ≤ 80 N |
| Near end crosstalk attenuation (NEXT) | 65.3 dB (with 1 MHz) |
| | 56.3 dB (at 4 MHz) |
| | 50.3 dB (at 10 MHz) |
| | 47.2 dB (at 16 MHz) |
| | 45.8 dB (at 20 MHz) |
| | 42.9 dB (at 31.25 MHz) |
| | 38.4 dB (at 62.5 MHz) |
| | 35.3 dB (at 100 MHz) |
| Power-summated near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz) |
| | 53.3 dB (at 4 MHz) |
| | 47.3 dB (at 10 MHz) |
| | 44.2 dB (at 16 MHz) |
| | 42.8 dB (at 20 MHz) |
| | 39.9 dB (at 31.25 MHz) |
| | 35.4 dB (at 62.5 MHz) |
| | 32.3 dB (at 100 MHz) |
| Return attenuation (RL) | 23 dB (at 4 MHz) |
| | 24.1 dB (at 8 MHz) |
| | 25 dB (at 10 MHz) |
| | 25 dB (at 16 MHz) |
| | 25 dB (at 20 MHz) |
| | 23.6 dB (at 31.25 MHz) |
| | 21.5 dB (at 62.5 MHz) |
| | 20.1 dB (at 100 MHz) |
| Shield attenuation | 3.2 dB (with 1 MHz) |
| | 6 dB (at 4 MHz) |
| | 9.5 dB (at 10 MHz) |
| | 12.1 dB (at 16 MHz) |
| | 13.6 dB (at 20 MHz) |
| | 17.1 dB (at 31.25 MHz) |
| | 24.8 dB (at 62.5 MHz) |
| | 32 dB (at 100 MHz) |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 |
| | in acc. to UL VW1 |
| | in accordance with UN ECE-R 118.03 |
| Resistance to oil | in accordance with EN 60811-2-1 |



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| Ambient temperature (operation) | -40 °C 80 °C (cable, fixed installation) |
|------------------------------------|---|
| | -20 °C 80 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -20 °C 80 °C |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP65 |
|---------------------------------|------------------------------|
| | IP67 |
| | IP65/IP67 |
| Ambient temperature (operation) | -25 °C 85 °C (M12 connector) |

Standards and regulations

M12

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



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Classifications

ECLASS

| | ECLASS-11.0 | 27060307 | | |
|--------|-------------|----------|--|--|
| | ECLASS-12.0 | 27060307 | | |
| | ECLASS-13.0 | 27060307 | | |
| ETIM | | | | |
| | ETIM 9.0 | EC001855 | | |
| UNSPSC | | | | |
| | UNSPSC 21.0 | 26121600 | | |



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Environmental product compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|--|
| | |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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