

1407444

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Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight RJ45 / IP20, on Socket straight M12, coding: A / IP67, cable length: 2 m

Commercial data

| Item number | 1407444 |
|--------------------------------------|--------------------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF04 |
| Product key | AF1CMI |
| GTIN | 4046356775656 |
| Weight per piece (including packing) | 117.7 g |
| Weight per piece (excluding packing) | 122.1 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |



Further products with variable cable type and variable cable

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Technical data

General

Notes

| | | length can be found in the accessories section |
|----|---------------------|--|
| Pr | oduct properties | |
| | Product type | Data cable preassembled |
| | Application | Standard |
| | Sensor type | Ethernet |
| | Number of positions | 8 |

Interfaces

Shielded

| Signal type/category | Ethernet CAT5 (IEC 11801), 1 Gbps |
|----------------------|-----------------------------------|
|----------------------|-----------------------------------|

yes

Electrical properties

| Nominal voltage U _N | 48 V AC |
|--------------------------------|---------|
| | 60 V DC |
| Nominal current I _N | 1 A |
| Transmission medium | Copper |
| Transmission speed | 1 Gbps |

Connector

Connection 1

| Dimensional drawing | Pin assignment M12 socket, 8-pos., A-coded, view female side |
|-----------------------------|---|
| Туре | M12 Socket, angled, 8-position, shielded (Advanced Shielding Technology), Keying: A |
| Number of positions | 8 |
| Shielded | yes |
| Shielding | Advanced Shielding Technology |
| Signal type/category | Ethernet CAT5, 1 bps |
| Insertion/withdrawal cycles | ≥ 100 |
| Insulation resistance | ≥ 100 Ω |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Tightening torque | 0.4 Nm (M12 connector) |
| Material Contact | CuZn |



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| Material Contact surface | Ni/Au |
|--|---|
| Material Contact carrier | PA 6.6 |
| Material Screw connection | Die-cast zinc, nickel-plated |
| Material Grip body | TPU, hardly inflammable, self-extinguishing |
| Material Seal | FKM |
| Flammability rating according to UL 94 | V0 |
| Ambient temperature (operation) | -25 °C 85 °C |
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Connection 2 | |
| Туре | RJ45 |

Cable/line

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

Ethernet flexible CAT5, 4-pair [94B]

Dimensional drawing



| | 0.4000 (00.00 (000.)) |
|--------------------------------|--|
| UL AWM Style | 21238 (80 °C / 600 V) |
| Number of positions | 8 |
| Shielded | yes |
| Cable type | Ethernet flexible CAT5, 4-pair [94B] |
| Conductor structure | 4x2xAWG26/7, SF/UTP |
| AWG signal line | 26 |
| Conductor cross section | 4x 2x 0.14 mm² |
| Wire diameter incl. insulation | 0.96 mm ±0.05 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/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 4 pairs for core |
| Optical shield covering | 70 % |
| Insulation resistance | ≥ 500 MΩ*km |
| Loop resistance | ≤ 290.00 Ω/km |



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| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
|---|---|
| Nominal voltage, cable | ≤ 100 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000.00 V (50 Hz, 1 min.) |
| 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 | 51 mm |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 |
| | according to CSA C 22.2 No. 210-FT1 |
| Resistance to oil | in accordance with EN 60811-2-1 |
| Ambient temperature (operation) | -40 °C 80 °C (cable, fixed installation) |
| | -20 °C 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP65 (M12 connector) |
|----------------------|-----------------------|
| | IP67 (M12 connector) |
| | IP20 (RJ45 connector) |

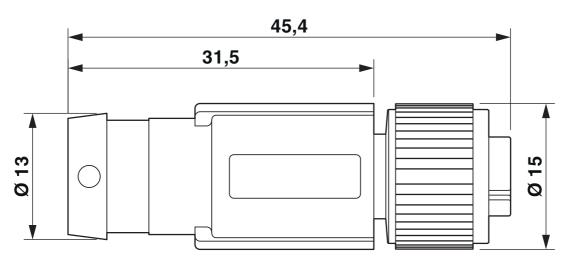


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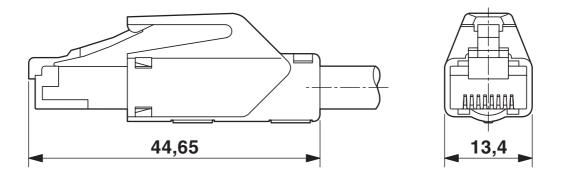
Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Dimensional drawing

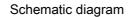


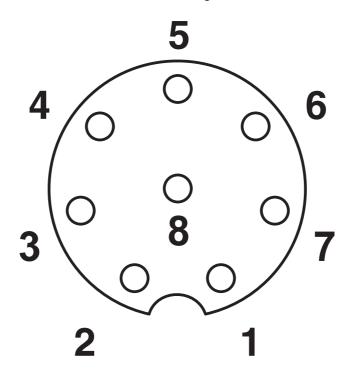
RJ45 connector, IP20



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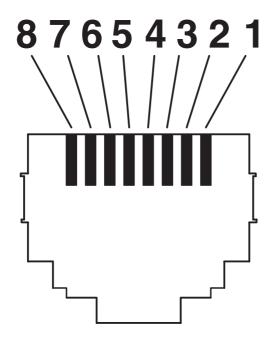
Pin assignment M12 socket, 8-pos., A-coded, view female side



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Schematic diagram

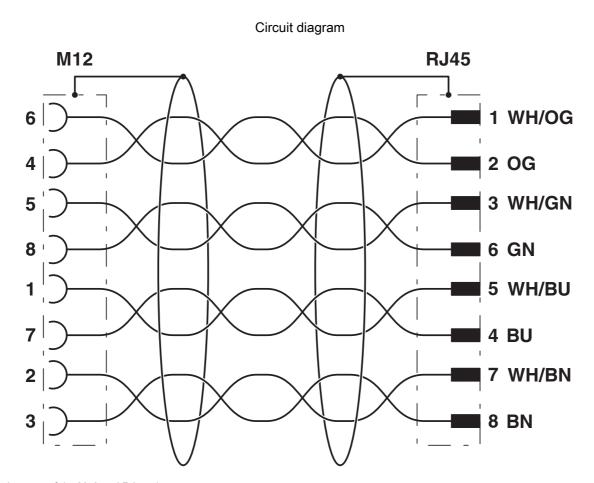


Connector pin assignment plug RJ45



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Contact assignment of the M12 and RJ45 plug



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1407444



UL Listed

Approval ID: FILE E 335024



cUL Listed

Approval ID: FILE E 335024



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387



cUL Listed

Approval ID: FILE E 335024



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Classifications

ECLASS

| | ECLASS-13.0 | 27060307 |
|----|-------------|----------|
| | ECLASS-15.0 | 27060307 |
| Εī | ⁻IM | |
| | ETIM 9.0 | EC001855 |
| U | NSPSC | |
| | 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.) | No substance above 0.1 wt% |
| EF3.0 Climate Change | |
| CO2e kg | 2.369 kg CO2e |

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