

1524336

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on free cable end, cable length: 15 m

Commercial data

| Item number | 1524336 | |
|--------------------------------------|---------------|--|
| Packing unit | 1 pc | |
| Minimum order quantity | 1 pc | |
| Sales key | BF04 | |
| Product key | AF1CJN | |
| GTIN | 4046356021418 | |
| Weight per piece (including packing) | 942 g | |
| Weight per piece (excluding packing) | 955 g | |
| Customs tariff number | 85444290 | |
| Country of origin | PL | |



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Technical data

Notes

| General | This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 10.1 Cord Sets for Balanced Cabling |
|---------|--|
| General | Further products with variable cable type and variable cable length can be found in the accessories section |
| General | CMC - Conductor marker carrier - PATG |

Product properties

| Product type | Data cable preassembled |
|---------------------|-------------------------|
| Application | Standard |
| Sensor type | PROFINET |
| Number of positions | 4 |
| Shielded | yes |

Interfaces

| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps | |
|----------------------|--------------------------------------|--|
| | EtherCAT® CAT5 (IEC 11801), 100 Mbps | |

Electrical properties

| Nominal voltage U _N | 48 V AC |
|--------------------------------|---------|
| | 60 V DC |
| Nominal current I _N | 4 A |
| Transmission medium | Copper |

Connector

Connection 1

| Dimensional drawing | Pin assignment M12 male connector, 4-pos., D-coded, male side |
|-----------------------------|---|
| Туре | M12 Plug, straight, 4-position, shielded (Advanced Shielding Technology), Keying: D |
| Number of positions | 4 |
| Shielded | yes |
| Shielding | Advanced Shielding Technology |
| Signal type/category | EtherCAT® CAT5 (IEC 11801), 100 Mbps |
| | PROFINET CAT5 (IEC 11801) |
| Insertion/withdrawal cycles | ≥ 100 |



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| Insulation resistance | ≥ 100 MΩ |
|--|---|
| Overvoltage category | II |
| Degree of pollution | 3 |
| Tightening torque | 0.4 Nm |
| Material Contact | CuSn |
| 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 |
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -25 °C 85 °C |
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |

Connection 2

| Type | free cable end |
|------|----------------|
| | |

Cable/line

| Cable length | 15 m |
|--------------|------|
| | |

PROFINET PVC stranded CAT5 [93B]

Dimensional drawing



| UL AWM Style | 21695 (80 °C / 600 V) | | |
|--------------------------------|----------------------------------|--|--|
| Number of positions | 4 | | |
| Shielded | yes | | |
| Cable type | PROFINET PVC stranded CAT5 [93B] | | |
| Conductor structure | 1x4xAWG22/7, SF/TQ | | |
| AWG signal line | 22 | | |
| Conductor cross section | 4x 0.34 mm² | | |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm | | |
| External cable diameter | 6.50 mm ±0.2 mm | | |
| Outer sheath, material | PVC | | |
| External sheath, color | green RAL 6018 | | |
| Conductor material | Tin-plated Cu litz wires | | |
| Material wire insulation | PE | | |
| | | | |



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| Single wire, color | white, yellow, blue, orange |
|---|--|
| Overall twist | Star quad |
| Optical shield covering | 85 % |
| Insulation resistance | ≥ 5 GΩ*km |
| Loop resistance | ≤ 120.00 Ω/km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Nominal voltage, cable | ≤ 600 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 |
| Flame resistance | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) |
| | UL 1685 (CSA FT 4) |
| | UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) |
| Resistance to oil | OIL RES I according to UL 2256 |
| Other resistance | UV resistant (according to UL 1581, Section 1200) |
| Ambient temperature (operation) | -40 °C 80 °C (cable, fixed installation) |
| | -10 °C 70 °C (Cable, flexible installation) |

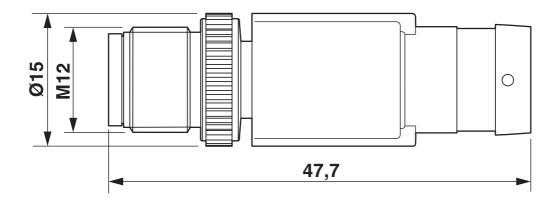


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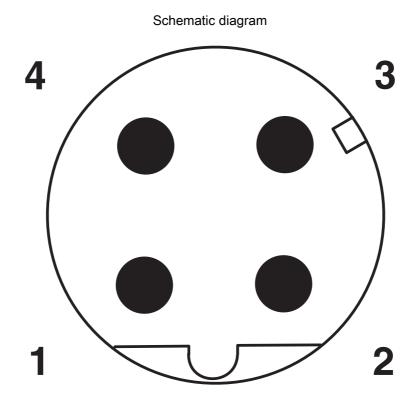
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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded



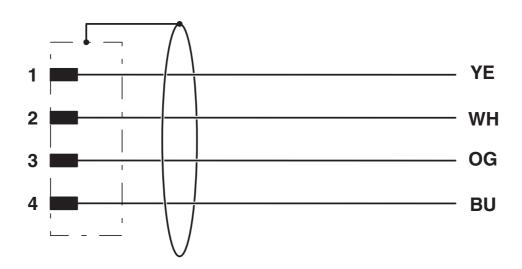
Pin assignment M12 male connector, 4-pos., D-coded, male side



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Circuit diagram



Contact assignment of the M12 plug



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Approvals

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| · Dan | cULus Listed Approval ID: E335024 | | | | |
|-------|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 250 V | 4 A | - | - |



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Classifications

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



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Environmental product compliance

EU RoHS

| 25 1.5.15 | | | |
|---|--|--|--|
| 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% | | |

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