

1095866

https://www.phoenixcontact.com/us/products/1095866

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Sensor/actuator cable, 3-position, PVC, gray, shielded, Plug angled M12, coding: A, on free cable end, cable length: 2 m, Foil shielding plus drain wire

Commercial data

| Item number | 1095866 |
|--------------------------------------|--------------------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF13 |
| Product key | BF1IEA |
| GTIN | 4055626928173 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Country of origin | US |



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Technical data

Product properties

| Product type | Sensor/actuator cable |
|--|-----------------------|
| Application | Standard, U.S. cables |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | A |
| Data management status | |
| Article revision | 00 |
| | |
| Insulation characteristics | |
| Insulation characteristics Overvoltage category | II |
| | II 3 |

Material specifications

| Flammability rating according to UL 94 | НВ |
|--|---|
| 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 |

Electrical properties

| Insulation resistance | ≥ 100 MΩ |
|--------------------------------|----------|
| Nominal voltage U _N | 250 V AC |
| | 250 V DC |
| Nominal current I _N | 4 A |

Mechanical properties

Mechanical data

| Insertion/withdrawal cycles ≥ 100 | wal cycles |
|-----------------------------------|------------|
|-----------------------------------|------------|

Signaling

| Status display | no |
|------------------------|----|
| Status display present | No |

Connection data

Conductor connection

| Tightening torque | 0.4 Nm (M12 connector) |
|-------------------|------------------------|
| 0 0 1 | , |

Connector



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Connection 1

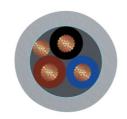
| Туре | Plug angled M12 |
|--------------|-----------------|
| Coding type | A |
| Connection 2 | |
| Туре | free cable end |

Cable/line

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

PVC, gray, 105°C [680]

Dimensional drawing



| Cable weight | 35.4 kg/km |
|---|--|
| UL AWM Style | 2517 (105 °C / 300 V) |
| Number of positions | 3 |
| Shielded | yes |
| Cable type | PVC, gray, 105°C [680] |
| AWG signal line | 22 |
| Wire diameter incl. insulation | 1.27 mm ±0.03 mm |
| External cable diameter | 4.75 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PVC (Signal line) |
| Single wire, color | brown, blue, black |
| Type of pair shielding | Plastic-coated aluminum foil, aluminum side inside |
| Overall twist | Conductors, fillers, and drain wire are twisted with left-hand lay |
| Max. conductor resistance | max. 51.1 Ω/km (20 °C) |
| Insulation resistance | ≥ (550 M Ohms/m @ 500V) |
| Nominal voltage, cable | 300 V |
| Minimum bending radius, flexible installation | 8 x D |
| Smallest bending radius, movable installation | 38 mm |
| Flame resistance | FT4 |
| Other resistance | UV resistant |
| Special properties | UL standards PLTC and ITC |
| Ambient temperature (operation) | -30 °C 105 °C (cable, fixed installation) |



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Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP65 |
|---------------------------------|--|
| | IP67 |
| | IP68 |
| Ambient temperature (operation) | -25 °C 90 °C (Plug / socket) |
| | -40 °C 80 °C (cable, fixed installation) |
| | -5 °C 80 °C (Cable, flexible installation) |

Standards and regulations

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

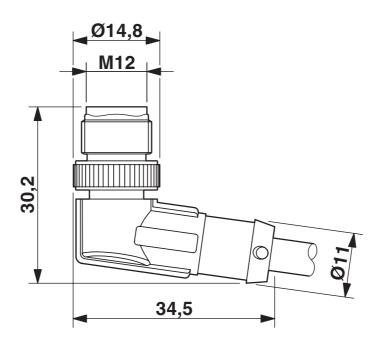


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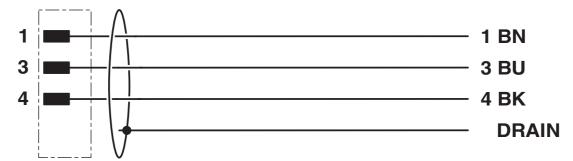
Drawings

Dimensional drawing



M12 x 1 male plug, angled

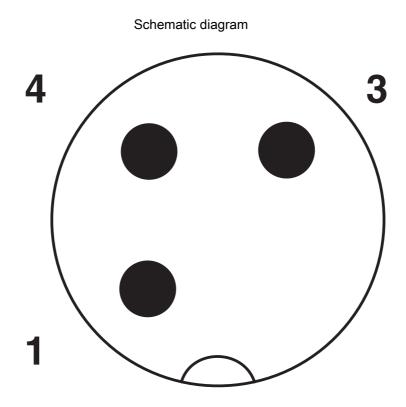
Circuit diagram





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Pin assignment M12 plug, 3-pos., A-coded, view male side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1095866

| <u> </u> | UL Listed Approval ID: FILE E 221474 | | | | |
|----------|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 300 V | 4 A | - | - |

| •••• | cUL Listed Approval ID: FILE E 22147 | 4 | | | |
|------|---|-----------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U_N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 300 V | 4 A | - | - |

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Classifications

UNSPSC 21.0

ECLASS

| 27060311 |
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| 27060311 |
| 27060311 |
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| EC001855 |
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31251501



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Environmental product compliance

| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|---|
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |



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Accessories

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

https://www.phoenixcontact.com/us/products/1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



SAC-M12-EXCLIP-M - Locking clip

1558988

https://www.phoenixcontact.com/us/products/1558988



Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



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TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm



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TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/us/products/1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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