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Connector, Universal, 5-position, shielded, Plug straight M12, Coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

Your advantages

- ${\ensuremath{\,^{\scriptstyle\blacksquare}}}$ Safe use in the field, thanks to a high degree of protection
- Flexible: connectors for on-site assembly
- Screw connection: proven connection technology for a large selection of different conductors
- Interference Reliable signal transmission 360° shielding in environments with electromagnetic interference

RoHS

Key Commercial Data

| Packing unit | 1 pc |
|--------------------------------------|-----------------|
| GTIN | 4 017918 181260 |
| GTIN | 4017918181260 |
| Weight per Piece (excluding packing) | 45.800 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

Technical data

Dimensions

| Diameter housing | 20 mm |
|---|-----------|
| Length | 62 mm |
| External cable diameter | 6 mm 8 mm |
| Stripping length of the sheath | 35 mm |
| Stripping length of the individual wire | 5 mm |



Technical data

Ambient conditions

| Ambient temperature (operation) | -40 °C 85 °C (Plug / socket) |
|---------------------------------|------------------------------|
| Degree of protection | IP67 |

General

| Note | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
|-----------------------------|--|
| Rated current at 40°C | 4 A |
| Rated voltage | 48 V AC |
| | 60 V DC |
| Number of positions | 5 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Signal type/category | Universal |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Connection method | Screw connection |
| Conductor cross section | 0.25 mm ² 0.75 mm ² (without ferrule) |
| | 0.14 mm ² 0.75 mm ² (with ferrule) |
| | 0.25 mm ² 0.75 mm ² (solid) |
| Conductor cross section AWG | 24 18 (without ferrule) |
| | 26 20 (with ferrule) |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 knurl) |
| | 0.2 Nm (Screw terminal blocks) |
| | 0.8 Nm 1 Nm (Pressure nut with coupling sleeve) |
| Tightening torque | Screw plug insert with sleeve housing as far it will go |
| Assembly instructions | The wires can be connected both with ferrules and without ferrules |

Material

| Flammability rating according to UL 94 | НВ |
|--|------------------------------|
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | РА |
| Material of grip body | Zinc die-cast, nickel-plated |
| Material, knurls | Zinc die-cast, nickel-plated |



Technical data

Material

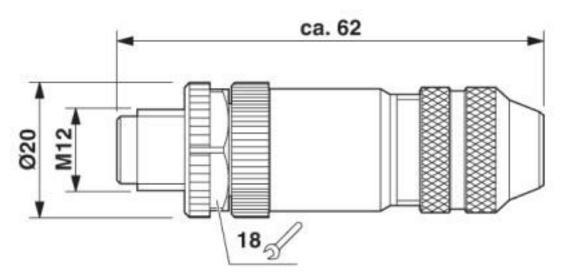
| NBR | | |
|-------------------------------|--|--|
| Standards and Regulations | | |
| M12 connector IEC 61076-2-101 | | |
| CUL | | |
| НВ | | |
| | | |

Environmental Product Compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

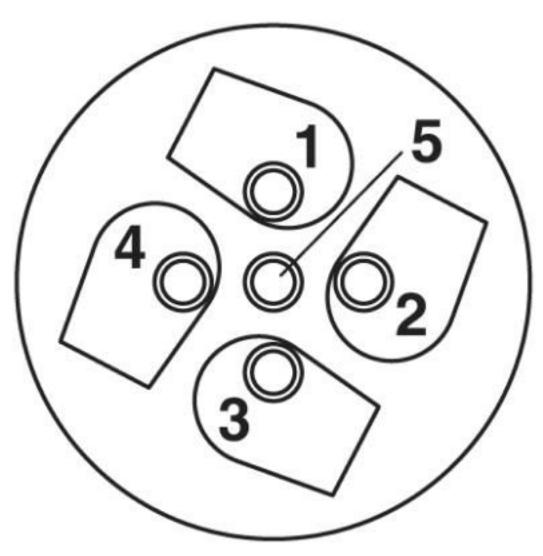
Dimensional drawing



Plug, M12 x 1, straight, shielded

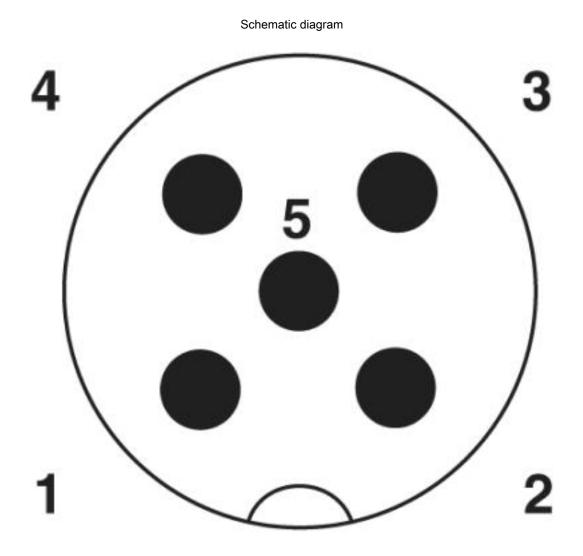


Schematic diagram



Cable connection side M12 (screw connection)





Pin assignment M12 male connector, 5-pos., A-coded, male side

Classifications

eCl@ss

| eCl@ss 10.0.1 | 27440102 |
|---------------|----------|
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440104 |

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Classifications

eCl@ss

| eCl@ss 8.0 | 27440104 |
|------------|----------|
| eCl@ss 9.0 | 27440102 |

ETIM

| ETIM 2.0 | EC001121 |
|----------|----------|
| ETIM 3.0 | EC002062 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |
| ETIM 6.0 | EC002062 |

UNSPSC

| UNSPSC 6.01 | 31251501 |
|---------------|----------|
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 39121413 |
| UNSPSC 18.0 | 39121413 |
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

| UL Recognized | 17 | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | | FILE E 221474 |
|--------------------|----|---|-------|---------------|
| | | | | |
| Nominal voltage UN | | | 125 V | |

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Approvals

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| Nominal current IN | 4 A |
|--------------------|-----|

| c | UL Recognized | CR1 | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | | FILE E 221474 |
|-------|---------------|-----|---|-------|---------------|
| | | | | | |
| Nomin | al voltage UN | | | 125 V | |
| Nomin | al current IN | | | 4 A | |

cULus Recognized



Accessories

Accessories

Cable by the meter

Cable reel - SAC-5P-100,0-PUR/SH-0,34 - 1501728



By the meter, Cable reel, shielded, PUR halogen-free, black-gray RAL 7021, 5-wire, color single wire: Brown, white, blue, black, gray, cable length: 100 m

Cable end sleeve

Ferrule - A 0,25- 5 - 3202465



Ferrule, length: 5 mm, color: silver

Crimping tool



Accessories

Crimping pliers - CRIMPFOX 6H - 1212046



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm² ... 6 mm², unlockable pressure lock, lateral entry

Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

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



Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

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

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2component grip, with non-slip grip



Accessories

Stripping tool

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



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

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

Stripping tool - VS-CABLE-STRIP-VARIO - 1657407



Stripping tool, for the multi-level stripping of shielded cables

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