

SAC-5P- 1,5-PUR/M12FS SH

Order No.: 1682935



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1682935>

Sensor/Actuator cable, 5-position, PUR, halogen-free, Black-gray RAL 7021, shielded, Free conductor end M12, on Socket, straight M12, A-coded, Cable length: 1.5 m

Commercial data

| | |
|--------------------------|-------------------|
| EAN | 4017918169213 |
| Pack | 1 pcs. |
| Customs tariff | 85444290 |
| Weight/Piece | 0.0903 KG |
| Catalog page information | Page 89 (PC-2009) |

Product notes

WEEE/RoHS-compliant since:
11/17/2006



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Technical data

General data

| | |
|-----------------------|--------------------------|
| Nominal current I_N | 4 A |
| Nominal voltage U_N | 60 V |
| Number of positions | 5 |
| Volume resistance | $\leq 5 \text{ m}\Omega$ |

| | |
|--|--------------------------------|
| Insulation resistance | ≥ 100 MΩ |
| Length of cable | 1.5 m |
| Stripping length of the free conductor end | 50 mm |
| Ambient temperature (operation) | -25 °C ... 90 °C (plug/socket) |

General characteristics

| | |
|--------------------------|---|
| Coding | A - standard |
| Surge voltage category | II |
| Pollution degree | 3 |
| Degree of protection | IP65/IP67/IP69K |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, (nickel-plated) |
| Sealing material | NBR |
| Status display | No |

Conductor data

| | |
|------------------------------------|-------------------------------------|
| Cable type | PUR halogen-free black shielded |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | Li9Y-V1-C-V1-11Y |
| Conductor cross section | 0.34 mm ² |
| AWG signal line | 22 |
| Conductor structure, signal line | 42x 0.10 mm |
| Core diameter including insulation | 1.27 mm ±0.02 mm |
| Thickness, insulation | Approx. 0.21 mm (Core insulation) |
| | Approx. 0.8 mm (Outer cable sheath) |
| External cable diameter | 5.90 mm |
| Wire colors | Brown, white, blue, black, gray |
| External sheath, color | Black-gray RAL 7021 |
| Insulation resistance | ≥ 100 GΩ*km |
| Conductor resistance | max. 58 Ω/km |
| Nominal voltage, conductor | 300 V |
| Test voltage, conductor | 3000 V |
| Overall twist | 5 wires around filler to the core |

| | |
|---|--|
| Shielding | Braided copper wires |
| Optical shield covering | 85 % |
| Outer sheath, material | PUR |
| Material, filler | PE |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Cable weight | 48 kg/km |
| Smallest bending radius, fixed installation | 59 mm |
| Smallest bending radius, movable installation | 59 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 59 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (cable, flexible installation) |
| Special properties | Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish |
| Flame resistance | As per UL-Style 20549 |
| Freedom from halogen | As per DIN VDE 0472 part 815 |
| Resistance to oil | complying with DIN EN 60811-2-1 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant |

Certificates / Approvals

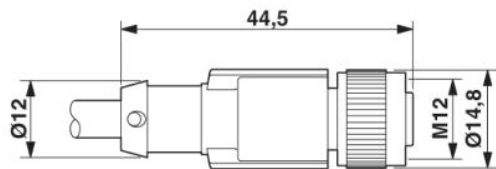


Certification

CUL Listed, GOST, UL Listed

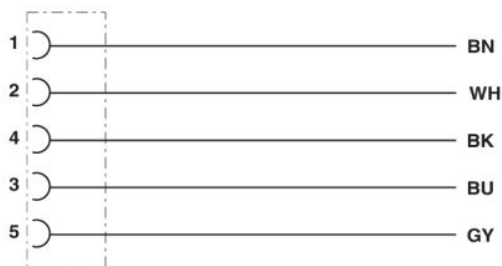
Diagrams/Drawings

Dimensioned drawing



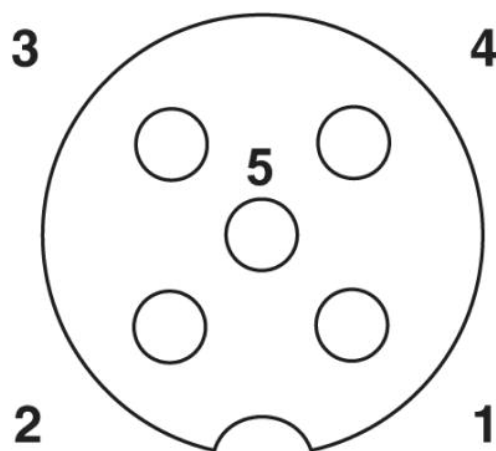
M12 x 1 female connector, straight, shielded

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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