

Sensor/Actuator cable - SAC-3P-M 8MR/ 3,0-PVC/M 8FR - 1415894

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Sensor/Actuator cable, 3-position, PVC, Black RAL 9005, Plug angled M8, on Socket angled M8, Cable length: 3 m

Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓



Key commercial data

| | |
|----------------------|----------|
| Packing unit | 1 pc |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 3 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

General

| | |
|-----------------------|--------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V |
| Number of positions | 3 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |

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Technical data

General

| | |
|------------------------------|------------------------------|
| Standards/regulations | M8 connector IEC 61076-2-104 |
| Status display | No |
| Protective circuit/component | Unwired |
| Surge voltage category | II |
| Pollution degree | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

Material

| | |
|---|---|
| Inflammability class according to UL 94 | HB |
| 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 |

Cable

| | |
|------------------------------------|---------------------------------------|
| Cable type | PVC black |
| Cable type (abbreviation) | PVC |
| Cable abbreviation | LiYY |
| Conductor cross section | 3x 0.25 mm ² (signal line) |
| AWG signal line | 24 |
| Conductor structure signal line | 14x 0.15 mm |
| Core diameter including insulation | 1.17 mm ±0.05 mm |
| Thickness, insulation | ≥ 0.23 mm (Core insulation) |
| Wire colors | brown, blue, black |
| Overall twist | 3 wires, twisted |
| External sheath, color | Black RAL 9005 |
| Outer sheath thickness | ≥ 0.76 mm |
| External cable diameter D | 4.2 mm ±0.15 mm |
| Cable weight | 29 kg/km |
| Outer sheath, material | PVC |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 100 MΩ*km (at 20 °C) |
| Conductor resistance | max. 79 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≥ 300 V |
| Test voltage, cable | ≤ 3000 V |

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Technical data

Cable

| | |
|------------------|----------------------|
| Flame resistance | As per UL-Style 2464 |
|------------------|----------------------|

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

| | |
|--------------------|-------|
| UL Listed | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 125 V |

| | |
|--------------------|-----|
| cUL Listed | |
| Nominal current IN | 4 A |

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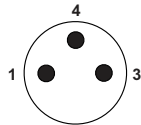
Approvals

| | |
|--------------------|-------|
| Nominal voltage UN | 125 V |
|--------------------|-------|



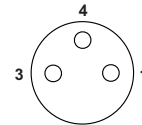
Drawings

Schematic diagram



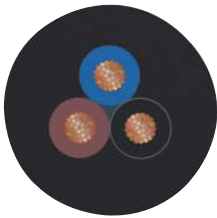
Pin assignment M8 plug, 3-pos., view male side

Schematic diagram



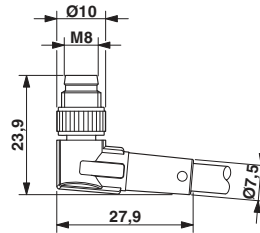
Pin assignment M8 socket, 3-pos., view female side

Cable cross section



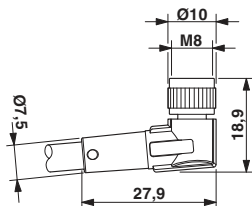
PVC black [PVC]

Dimensional drawing



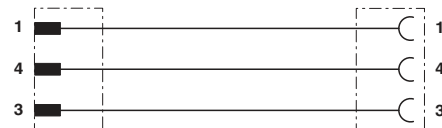
M8 x 1 male plug, angled version

Dimensional drawing



Socket M8 x 1, angled

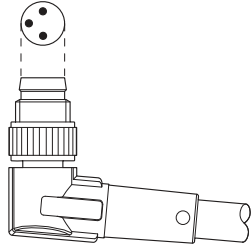
Circuit diagram



Contact assignment of M8 plugs/sockets

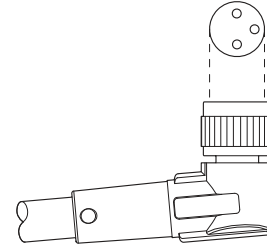
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Schematic diagram



Layout of connector pin assignments

Schematic diagram



Layout of connector pin assignments