

Master cable - SAC-6P-10,0-PURMC/M12FR - 1407821

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M12 socket, angled, 6-pos., with connected master cable, for sensor/actuator box with M8 slots, cable length: 10 m



Key Commercial Data

| | |
|----------------------|----------|
| Packing unit | 1 STK |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 80 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

General

| | |
|-----------------------|-------------------------------|
| Rated voltage | 30 V |
| Number of positions | 6 |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Connection method | Fixed connection |
| Torque | 0.4 Nm (M12 connector) |

Material

| | |
|--|------|
| Flammability rating according to UL 94 | HB |
| Contact material | CuZn |

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Material

| | |
|--------------------------|--------|
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Sealing material | NBR |

Connection assignment

| | |
|---------------------------------------|---------------------------|
| Slot/position = pin = conductor color | 1 / 4 (A) = P = WH |
| | 2 / 4 (A) = J = GN |
| | 3 / 4 (A) = T = YE |
| | 4 / 4 (A) = S = GY |
| | 1-4 / 1 (+ 24 V) = A = BN |
| | 1-4 / 3 (0 V) = L = BU |

Standards and Regulations

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB |

Cable

| | |
|---|---|
| Cable type | PUR/PVC black |
| Cable type (abbreviation) | PUR MC |
| Cable abbreviation | LiYY-11Y |
| UL AWM style | 20549 |
| Conductor cross section | 6x 0.25 mm ² (Signal line) |
| AWG signal line | 24 |
| Conductor structure signal line | 32x 0.10 mm |
| Core diameter including insulation | 1.22 mm ±0.02 mm |
| Thickness, insulation | ≥ 0.23 mm (Core insulation) |
| Wire colors | white, brown, green, yellow, gray, blue |
| Overall twist | Six cores around the filler to the core |
| Length of twist, overall twist | 66 mm |
| External sheath, color | black-gray RAL 7021 |
| Outer sheath thickness | ≥ 0.38 mm |
| External cable diameter D | 5 mm ±0.02 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Cable weight | 37 kg/km |
| Outer sheath, material | PUR |
| Material, inner sheath | PVC |
| Material, filler | PP yarn |

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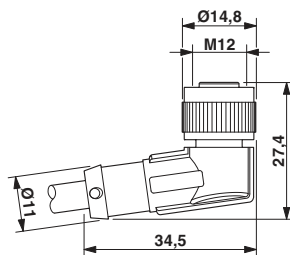
Technical data

Cable

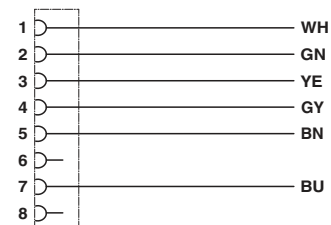
| | |
|---------------------------------|--|
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | $\geq 200 \text{ M}\Omega \cdot \text{km}$ (at 20 °C) |
| Conductor resistance | 78 Ω/km (at 20 °C) |
| Nominal voltage, cable | $\leq 300 \text{ V AC}$ |
| Test voltage, cable | $\geq 3000 \text{ V AC}$ (Spark test) |
| Special properties | Flexible use, however not recommended for use in drag chains |
| | Low adhesion surface |
| | wear-resistant and notch tough |
| Flame resistance | according to UL 758/1581 (horizontal) |
| | in accordance with UL 758/1581 FT2 |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 100°C |
| Other resistance | hydrolysis and microbe resistant |
| | Resistant to salt water |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (cable, flexible installation) |

Drawings

Dimensional drawing



Circuit diagram



M12 x 1 socket, angled

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27061801 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 6.0 | 27279218 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11 | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2 | 39121522 |