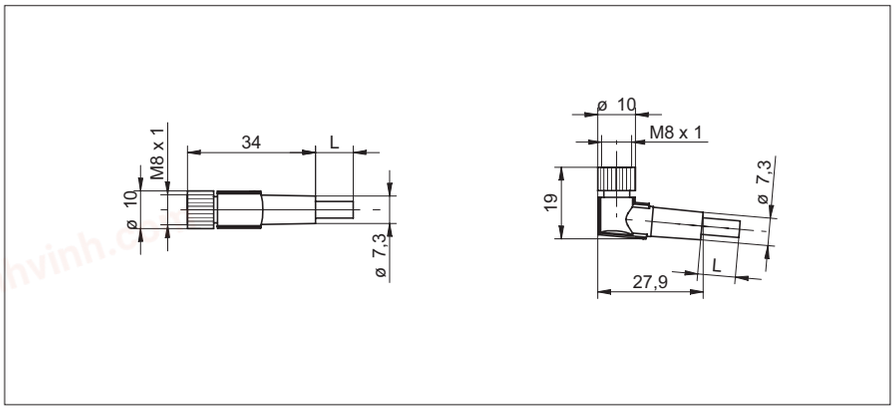
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# Connector M8 x 1 with attached PUR-cable

## dimension drawing




- 3-wire
- PUR halogen-free
- suitable for flexible cable carriers
- self-locking cap nut
- UL listing file No. E315836

| General data | |
|---|---|
| Nominal current $I_N$ | 4 A |
| Nominal voltage $U_N$ | 60 V |
| Number of positions | 3 |
| Volume resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Length of cable | see listing |
| Stripping length of the free conductor end | 50 mm |
| Ambient temperature (operation) | -25 ... 90 °C |

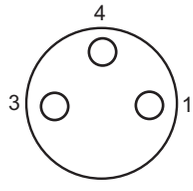
| General characteristics | |
|---|---|
| Coding | A-standard |
| Surge voltage category | II |
| Pollution degree | 3 |
| Degree of protection | IP65/IP67/IP68 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, (nickel-plated) |
| Sealing material | NBR |
| Status display | no |

| Conductor data | |
|---|---|
| Cable type | PUR halogen-free black |
| Cable abbreviation | Li9Y11Y-HF |
| Conductor cross section | 3x0,25 mm² |
| AWG signal line | 24 |
| Conductor structure, signal line | 32x0,10 mm |
| Core diameter including insulation | 1,17 mm ±0,02 mm |
| Thickness, insulation | ≥ 0,21 mm (Core insulation) |
| External cable diameter | 3,60 mm ±0,15 mm |
| Wire colors | Brown, blue, black |
| External sheath, color | Black-gray RAL 7021 |

| type | Mat.-No. | length |
|---|---|---|
| **straight connectors** | | |
| ESG 32SH0200 | 10127785 | 2 m |
| ESG 32SH0300 | 10148618 | 3 m |
| ESG 32SH0500 | 10127787 | 5 m |
| ESG 32SH1000 | 10127789 | 10 m |
| **angular connectors** | | |
| ESW 31SH0200 | 10127794 | 2 m |
| ESW 31SH0500 | 10127795 | 5 m |
| ESW 31SH1000 | 10127796 | 10 m |

other lengths on request

## pin assignment




1 = BN
3 = BU
4 = BK

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# Connector M8 x 1 with attached PUR-cable

| **Conductor data** (cont.) | |
|---|---|
| Insulation resistance | ≥ 100 GΩ*km |
| Conductor resistance | ≤ 78 Ω/km |
| Nominal voltage, conductor | 300 V |
| Test voltage, conductor | 3000 V |
| Overall twist | 3 wires, twisted |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Cable weight | 18 kg/km |
| Smallest bending radius, movable installation | 36 mm |
| Number of bending cycles | 10‘000‘000 |
| Bending radius | 44 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s$^2$ |
| Ambient temperature (operation) | -40 ... 80 °C (cable, fixed installation) |
| | -25 ... 80 °C (cable, flexible installation) |
| Special properties | Suitable for drag chains |
| | Silicone-free |
| | Free of substances which would hinder coating with paint or varnish |
| Flame resistance | As per UL 758/1581 FT2 |
| | As per DIN EN 60332-2-2 (20 s) |
| Halogen-free | 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 |



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