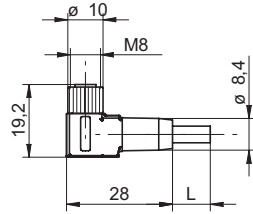


Connector M8 with attached PUR-cable with 2 LEDs

dimension drawing



- 3-wire
- PUR halogen-free
- 2 LEDs (GN/YE)
- suitable for flexible cable carriers
- self-locking cap nut

General data

Nominal current I_N	4 A
Nominal voltage U_N	24 V
Number of positions	3
Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	see listing
Stripping length of the free conductor end	50 mm
Ambient temperature (operation)	-25 ... 90 °C (Male connector / female connector)

General characteristics

Coding	A-standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP67/IP68
Torque	0,2 Nm (M8 plug-in connectors)
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	2 LEDs

Conductor data

Cable type	PUR halogen-free black
Cable abbreviation	Li9Y11Y-HF
Conductor cross section	0,25 mm ²
AWG signal line	24
Conductor structure, signal line	32x0,10 mm
Core diameter including insulation	1,17 mm $\pm 0,02$ mm (signal line)
Thickness, insulation	$\geq 0,38$ mm (Core insulation)
External cable diameter	4,40 mm $\pm 0,15$ mm
Wire colors	brown, blue, black
External sheath, color	black-gray RAL 7021

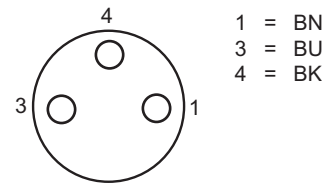
type	Mat.-No.	length
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angular connectors

ESW 31SH0500/PL	10158775	5 m
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other lengths on request

pin assignment



Connector M8 with attached PUR-cable with 2 LEDs

Conductor data (cont.)	
Conductor resistance	≤ 78 Ω/km (at 20 °C)
Nominal voltage, conductor	≤ 300 V
Test voltage, conductor	≥ 3000 V
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	24 kg/km
Smallest bending radius, fixed installation	22 mm
Smallest bending radius, movable installation	44 mm
Number of bending cycles	4'000'000
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	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Flame resistance	in accordance with DIN UL-Style 20549
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	hydrolysis and microbe resistant Highly resistant to acids, alkaline solutions and solvents Resistant to salt water