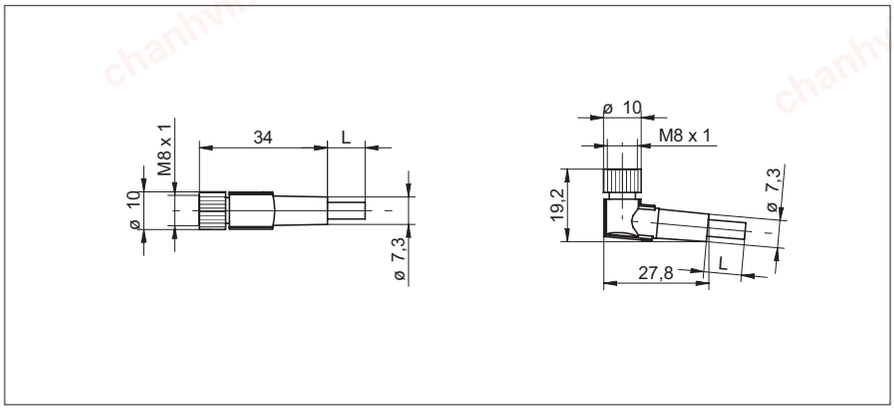
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Connector M8 x 1 with attached PUR-cable

dimension drawing



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

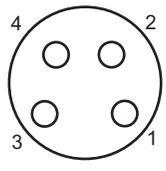
General data	
Nominal current I_N	4 A
Nominal voltage U_N	30 V
Number of positions	4
Volume resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Length of cable	see listing
Stripping length of the free conductor end	50 mm
Ambient temperature (operation)	-25 ... 90 °C

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	LiI9Y11Y-HF
Conductor cross section	4x0,25 mm²
AWG signal line	24
Conductor structure, signal line	32x0,10 mm
Core diameter including insulation	1,17 mm ±0,02 mm
Thickness, insulation	ca. 0,21 mm (Core insulation)
	ca. 0,7 mm (Outer cable sheath)
External cable diameter	3,95 mm ±0,15 mm
Wire colors	Brown, white, blue, black
External sheath, color	Black-gray RAL 7021

type	Mat.-No.	length
straight connectors		
ESG 32AH0100	10150325	1 m
ESG 32AH0200	10127800	2 m
ESG 32AH0300	10149633	3 m
ESG 32AH0500	10127801	5 m
ESG 32AH1000	10127802	10 m
ESG 32AH1500	10150327	15 m
ESG 32AH2000	10150329	20 m
angular connectors		
ESW 31AH0200	10133827	2 m
ESW 31AH0500	10132816	5 m
ESW 31AH1000	10132435	10 m
other lengths on request		

pin assignment



1 = BN
2 = WH
3 = BU
4 = BK

07.07.2020

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Drawn: 22.04.10/in Checked: 11.10.10/zi Released: 05.11.10/zi Last change: 07.07.2020/lv

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Connector M8 x 1 with attached PUR-cable

Conductor data (cont.)	
Conductor resistance	≤ 78 Ω/km
Nominal voltage, conductor	300 V
Test voltage, conductor	3000 V
Overall twist	4 wires, twisted
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	23 kg/km
Smallest bending radius, movable installation	40 mm
Number of bending cycles	10‘000‘000
Bending radius	44 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	5 m/s^2
Ambient temperature (operation)	-40 ... 80 °C (cable, fixed installation)
	-5 ... 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 758/1581 FT2 As per DIN EN 50332-2-2 (20s)
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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