

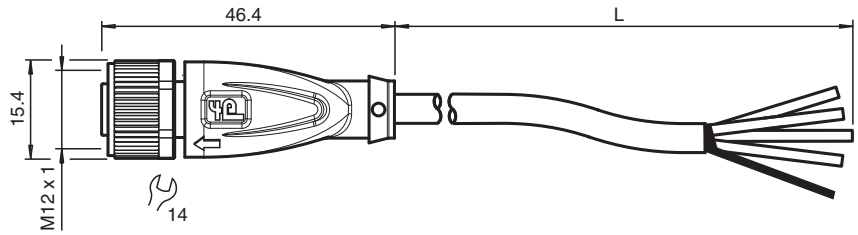
Cable connector, NAMUR

V1-G-N4-BU2,5M-PUR-N4S0

- Suitable for drag chains and abrasion resistant
- Suitable for NAMUR technology
- Degree of protection IP66 / IP68 / IP69
- Ex ia certified
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- Oil resistant
- UL listed for USA and Canada
- Halogen-free
- Shield not connected to screw connection
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable blue, Ex certified, shielded, UL approved, drag chain suitable, oil resistant

Dimensions



Technical Data

General specifications		
Connector 1		
Connection		socket
Construction type		M12
Style		straight
Locking		screw connection
Number of pins		4
Coding		A-coded
Connector 2		
Connection		cable end
Electrical specifications		
Operating voltage	U_B	max. 48 V AC / 60 V DC
Operating current	I_B	max. 4 A
Resistance per unit length	R'	max. 0.039 Ω/m
Capacitance per unit length	C'	57.3 nF/km
Inductance per unit length	L'	0.758 mH/km
Conformity		
Degree of protection		EN 60529
Plug connection		connector M12 x 1 : IEC 61076-2-101
Flammability		UL 758 / 1581 , DIN EN 60332-1-2
Explosion protection		IEC 60079-0 , IEC 60079-11

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Technical Data

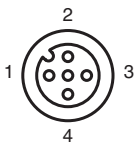
Halogen-free		DIN VDE 0472-815 , IEC 60754-1
Lead-free		RoHS directive 2011/65/EU
Microbial resistance		EN 50363
Hydrolysis resistance		EN 50363
Oil resistance		DIN EN 60811-404
Approvals and certificates		
UL approval		AWM STYLE 20549/10152 80°C 300V FT2 (cable)
UL File Number		E231213
Ambient conditions		
Ambient temperature		
Plug connector		-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed installation		-40 ... 80 °C (-40 ... 176 °F)
Cable, flexing		-25 ... 80 °C (-13 ... 176 °F)
Pollution degree		3
Mechanical specifications		
Plug connector		
Tightening torque		0.6 Nm
Loosening protection		integrated
Tool installation		straight knurling and hexagon nut SW = 14 mm
Mating cycles		min. 100
Shielding		shield not connected to connector
Degree of protection		IP66 / IP68 / IP69
Cable		according to IEC/EN 60228 (DIN VDE 0295) class 6
Sheath diameter		6 mm
Bending radius		> 10 x cable diameter, movable installation > 5 x cable diameter, fixed installation
Sheath stripping force		max. 80 N / 300 mm
Sheath color		blue (similar to RAL 5015)
Number of cores		4
Core cross section		0.5 mm^2
Cores color		Core 1: brown Core 2: white Core 3: blue Core 4: black
Core construction		28 x 0.15 mm Ø
Shield		tinned copper braiding, 85 % coverage
Length	L	2.5 m
Cable code		Li 9Y C11Y 4 x 0,50
Drag chain suitability		
Drag chain cycles		min. 2000000
Motion velocity		max. 3 m/s
Traverse distance		max. 10 m
Acceleration		max. 10 m/s^2
Mass		229 g
Material		
PWIS free		yes
Halogen-free		yes
Lead-free		yes
Plug connector		
Screw connection		Zinc diecast, nickel-plated
Body		TPU, black
Seal		FKM
Contact surface		gold plated (Au)
Flammability		V-2

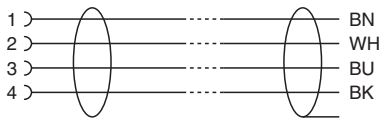
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Technical Data

Cable		
Sheathing		PUR based on polyether
Cores		bare copper (Cu)
Core insulation		PP
UV resistance		yes
Chemical resistance		good
Oil resistance		yes
Microbial resistance		yes
Hydrolysis resistance		yes
Flammability		FT2
Data for application in connection with hazardous areas		
EU-type examination certificate		TÜV 24 ATEX 9153X
Marking		Ⓔx II 1G Ex ia IIC T6 Ga Ta = -25 °C ... +80 °C Ⓔx II 1D Ex ia IIIC T200 85°C Da Ta = -25 °C ... +80 °C
Voltage	U_i	max. 30 V sum of all circuits must not exceed this value
Current	I_i	max. 1 A
Power	P_i	for II and IIIB gas groups: 1 W for IIIC gas group (depending on Tamb): 40°C / 750 mW, 70 °C / 650 mW, 90 °C / 550 mW sum of all circuits must not exceed this value
Ambient temperature	T_{amb}	-25 ... 80 °C (-13 ... 176 °F)
International approvals		
IECEx approval		IECEx TUR 24.0043X
General information		
Cable marking sleeve		1x PUR transparent , fixed to cable

Connection Assignment





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