



## Adapter cable

### V1-GX-R-BK1M-PUR-V1-G-YWSN

- For use with wireless sensor node WILSEN.node NAMUR
- Suitable for drag chains and abrasion resistant
- Degree of protection IP66 / IP68 / IP69
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

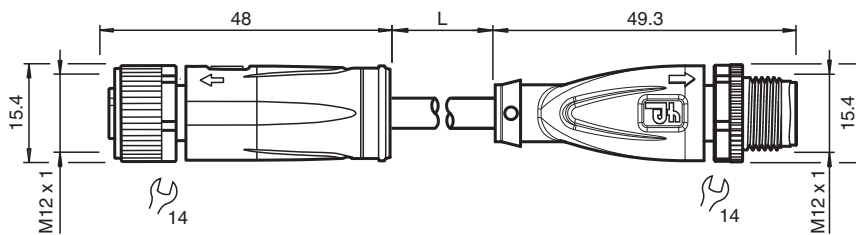
Adapter cable M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, for WILSEN.node NAMUR



## Function

This adapter cable is designed for connection of volt-free contacts to the wireless sensor node WILSEN.node NAMUR (type code: WSN-2N-\*). By means of the adapter cable the WILSEN.node can identify the switch states of the volt-free contact and transmit them via LoRaWAN. The cable allows lead breakage detection due to the parallel resistor integrated in the connectors.

## Dimensions



## Technical Data

### General specifications

Connector 1	
Connection	socket
Construction type	M12
Style	straight
Locking	screw connection
Number of pins	4
Coding	A-coded
Customization	integrated resistor
Connector 2	
Connection	plug
Construction type	M12
Style	straight
Locking	screw connection
Number of pins	4
Coding	integrated resistor
<b>Electrical specifications</b>	
Operating voltage	$U_B$ max. 30 V DC

## Technical Data

Resistor		R1 = 1 k $\Omega$ / 0.5 W , R2 = 10 k $\Omega$ / 0.5 W
<b>Conformity</b>		
Degree of protection		EN 60529
Plug connection		connector M12 x 1 : IEC 61076-2-101
Flammability		UL 1581; DIN EN 60332-2-2
Halogen-free		DIN VDE 0472-815
Microbial resistance		EN 50363
Hydrolysis resistance		EN 50363
<b>Approvals and certificates</b>		
UL approval		AWM STYLE 20549/10493 80°C 300V FT2 (cable)
UL File Number		E231213
<b>Ambient conditions</b>		
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
<b>Mechanical specifications</b>		
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 connected to screw connection
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. 60 N / 100 mm
Sheath color		black (similar to RAL 9005)
Number of cores		5
Core cross section		0.34 mm <sup>2</sup>
Cores color		Core 1: brown Core 2: white Core 3: blue Core 4: black Core 5: grey not used
Core construction		42 x 0.1 mm $\emptyset$
Shield		tinned copper braiding, 85 % coverage
Length	L	1 m
Cable code		Li F 9Y C11Y 5 x 0,34
Drag chain suitability		
Drag chain cycles		min. 2000000
Motion velocity		max. 3 m/s
Traverse distance		max. 5 m
Acceleration		max. 5 m/s <sup>2</sup>
<b>Material</b>		
PWIS free		yes
Halogen-free		yes
Plug connector		
Screw connection		Zinc diecast, nickel-plated
Body		TPU, black
Seal		FKM
Contact surface		gold plated (Au)

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## Technical Data

Flammability	V-2
Cable	
Sheathing	PUR based on polyether
Cores	bare copper (Cu)
Core insulation	PP
UV resistance	yes
Chemical resistance	good
Oil resistance	yes
Cooling lubricant resistance	yes
Microbial resistance	yes
Hydrolysis resistance	yes
Flammability	FT2

## Connection Assignment

