

Female cordset

V1-GV4A-BK15M-PUR-U

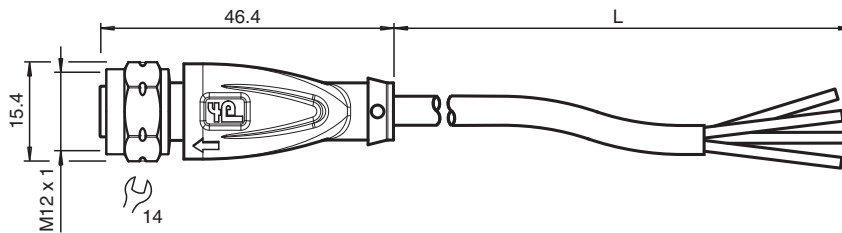


- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP66 / IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Screw connection stainless steel
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 straight stainless steel 1.4404, A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion 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. 250 V AC/DC
Operating current	I_B	max. 4 A

Conformity

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		IEC 60754-1
Lead-free		RoHS directive 2011/65/EU

Approvals and certificates

UL approval		AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)
UL File Number		E231213

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

Ambient conditions

Ambient temperature

Plug connector	-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed installation	-40 ... 80 °C (-40 ... 176 °F)
Cable, flexing	-20 ... 80 °C (-4 ... 176 °F)

Pollution degree	3
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Mechanical specifications

Plug connector

Tightening torque	0.6 Nm
Loosening protection	integrated
Tool installation	hexagon nut SW = 14 mm

Mating cycles	min. 100
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Degree of protection	IP66 / IP68 / IP69
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Cable	according to IEC/EN 60228 (DIN VDE 0295) class 6
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Sheath diameter	4.3 mm
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Bending radius	> 10 x cable diameter, movable installation > 5 x cable diameter, fixed installation
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Sheath stripping force	max. 80 N / 300 mm
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Sheath color	black (similar to RAL 9005)
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Number of cores	4
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Core cross section	0.34 mm ²
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Cores color	Core 1: brown Core 2: white Core 3: blue Core 4: black
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Core construction	42 x 0.1 mm Ø
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Length	L 15 m
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Cable code	Li 9Y 11Y 4 x 0.34
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Drag chain suitability

Test temperature	25 °C (77 °F)
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Drag chain cycles	min. 10000000
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Motion velocity	max. 3 m/s
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Traverse distance	max. 5 m
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Acceleration	max. 5 m/s ²
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Torsion cycles	min. 1000000
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Torsional stress	± 180 °/m
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Mass	326 g
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Material

PWIS free	yes
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Halogen-free	yes
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Lead-free	yes
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Plug connector

Screw connection	Stainless steel 1.4404 / AISI 316L
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Body	TPU, black
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Seal	FKM
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Contact surface	gold plated (Au)
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Flammability	V-2
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Cable

Sheathing	PUR based on polyether
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Cores	bare copper (Cu)
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Core insulation	PP
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UV resistance	yes
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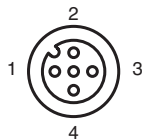
Chemical resistance	good
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Oil resistance	yes
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Technical Data

Cooling lubricant resistance	yes
Microbial resistance	yes
Hydrolysis resistance	yes
Flammability	FT2
General information	
Cable marking sleeve	1x PUR transparent , fixed to cable

Connection Assignment



1	BN
2	WH
3	BU
4	BK