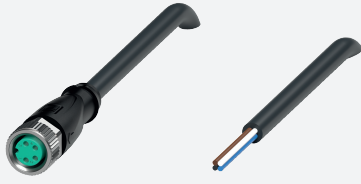


# Female cordset

## V31-GM-BK5M-PUR-R1

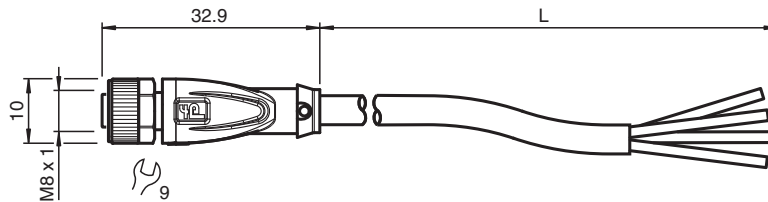


- Highly flexible - suitable for robotics
- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- Oil resistant
- Resistant to salt water
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M8 straight A-coded 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant, oil and salt water resistant, robotics



### Dimensions



### Technical Data

#### General specifications

Connector 1	
Connection	socket
Construction type	M8
Style	straight
Locking	screw connection
Number of pins	4
Coding	A-coded
Connector 2	
Connection	cable end

#### Electrical specifications

Operating voltage	$U_B$	max. 30 V AC/DC
Operating current	$I_B$	max. 3 A

#### Conformity

Degree of protection	EN 60529
Plug connection	connector M8 x 1 : IEC 61076-2-104
Flammability	UL 758 / 1581
Halogen-free	DIN VDE 0472-815 DIN EN 50267-2-1
Microbial resistance	DIN EN 50525-2-21 / DIN VDE 0282-10
Hydrolysis resistance	DIN EN 50525-2-21
Oil resistance	DIN EN 60811-2-1

Release date: 2023-08-31 Date of issue: 2023-08-31 Filename: 322568\_eng.pdf

## Technical Data

Approvals and certificates		
UL approval		AWM STYLE 20549 80 °C 300V AWM I A/B 80 °C 300V FT2 (cable)
UL File Number		E231213
Ambient conditions		
Ambient temperature		
Plug connector		-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed		-40 ... 80 °C (-40 ... 176 °F)
Cable, flexing		-25 ... 80 °C (-13 ... 176 °F)
Pollution degree		3
Mechanical specifications		
Plug connector		
Tightening torque		0.4 Nm
Loosening protection		available
Tool installation		straight knurling and hexagon nut SW = 9 mm
Mating cycles		min. 100
Degree of protection		IP68
Cable		
Sheath diameter		4.3 mm
Bending radius		> 10 x cable diameter, moving > 5 x cable diameter, fixed
Sheath stripping force		max. 50 N / 300 mm
Sheath color		black (similar to RAL 7021)
Number of cores		4
Core cross section		0.34 mm <sup>2</sup>
Cores color		Core 1: brown Core 2: white Core 3: blue Core 4: black
Core construction		42 x 0.1 mm Ø
Length	L	5 m
Cable code		Li 9Y 11YM 4 x 0.34
Drag chain suitability		
Drag chain cycles		min. 10000000
Motion velocity		max. 3 m/s
Traverse distance		max. 10 m
Acceleration		max. 10 m/s <sup>2</sup>
Torsion cycles		min. 10000000
Torsional stress		± 360 °/m
Material		
PWIS free		yes
Halogen-free		yes
Plug connector		
Screw connection		Zinc diecast, nickel-plated
Body		TPU, black
Seal		FKM
Contact surface		gold plated (Au)
Flammability		V-2
Cable		
Sheathing		PUR based on polyether
Core insulation		PP
Salt water resistance		yes
Oil resistance		yes
Microbial resistance		yes
Hydrolysis resistance		yes

## Technical Data

Flammability






FT2

## Connection



1	⌋	.....	BN
2	⌋	.....	WH
3	⌋	.....	BU
4	⌋	.....	BK

## Accessories

	<b>MH V3-SCREWDRIVER</b>	Torque screwdriver (0.4 Nm)
	<b>MH V3-BIT M8</b>	plug-in cap for M8
	<b>V1/V3-LABELHOLDER</b>	Label holder
	<b>V1/V3-LABEL</b>	Label plate
	<b>MH V3-Holder</b>	Modular universal holder for M8 connectors