

## Sensor-Actuator-Interface (SAI) Cable for Continuous Flex Applications

# NEW



Weidmüller's new high flex cables have been designed and tested in C-track applications, where the cable continuously rolls back and forth, over 2100mm at 1.75m/s and an acceleration reaching 50m/s<sup>2</sup>. The halogen free PUR/PUR cables achieved a rating of 2 million cycles and the standard PUR/PVC cables are rated at 20 million cycles.

All of the new Sensor-Actuator-Interface (SAI) High Flex cables are available in 3-, 4- and 5-pole versions as plug-and-play assemblies with M12 or M8 male or female connectors, for reduced installation and maintenance time. For applications that require on-site custom cable assembly, PUR/PVC and halogen free PUR/PUR bulk cable is available in 100-meter lengths. Combined with Weidmüller customizable connectors, users can create reliable and customized cable assemblies easily and quickly for a full range of C-track and motion applications.

Weidmüller SAI High Flex cables are UL and CSA approved. They feature a neutral black jacket that is oil, grease and lubricant resistant, allowing them to be installed directly on the machine.

#### PUR Cable:

- Recommended for C-track applications
- Rated for over 2 million cycles
- Halogen free
- UL and CSA approved

#### PUR/PVC Cable:

- Recommended for C-track applications
- Rated for over 20 million cycles
- PUR/PVC material
- UL and CSA approved

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**Weidmüller** 

Halogen free PUR Cable 0.25 mm<sup>2</sup> and 0.34 mm<sup>2</sup>

## Technical Data

Cross section	0.34 mm <sup>2</sup>	0.25 mm <sup>2</sup>
Stranding	42 x 0.10 mm	32 x 0.10 mm
Primary insulation	PUR	PUR
Outer jacket	PUR	PUR
Jacket color	black	black
Cable OD	3-pole: 4.3 ± 0.2 mm	3-pole: 4.1 ± 0.2 mm
	4-pole: 4.7 ± 0.2 mm	4-pole: 4.4 ± 0.2 mm
	5-pole: 5.0 ± 0.2 mm	
Resistance	Excellent oil resistance	
	Very good abrasion resistance	
	Good resistance against acids, leach and solvents	
	Flame resistant and self-extinguishing	
Other Jacket properties	Halogen free	
	Recyclable	
	Free of Cadmium and Silicone	
	Free of paint wetting impairment substances	
Temperature rating	Static: - 50 °C to + 80 °C	
	Flexible: - 25 °C to + 60 °C	
Approvals	UL/CSA approval	
	CE conform	
Bending radius	approx. 10 x cable OD for flexible application	
Speed	max. 1.75 m/s at 2.1 m horizontal path length	
Acceleration	max. 50 m/s <sup>2</sup>	
Cycles	min. 2 million	

Please reference the Business to Business (B2B) Center for information about additional configurations such as male connectors, LED versions, extension cord sets and different lengths.

## Ordering Data

Description	Type	Length	Part No.
M12 straight	SAIL-M12BG-3-1.5Q	1.5 Meter	1926760150
Female 3-pole	SAIL-M12BG-3-3.0Q	3.0 Meter	1926760300
	SAIL-M12BG-3-5.0Q	5.0 Meter	1926760500
	SAIL-M12BG-3-10Q	10 Meter	1926761000
M12 straight	SAIL-M12BG-4-1.5Q	1.5 Meter	1926770150
Female 4-pole	SAIL-M12BG-4-3.0Q	3.0 Meter	1926770300
	SAIL-M12BG-4-5.0Q	5.0 Meter	1926770500
	SAIL-M12BG-4-10Q	10 Meter	1926771000
M12 straight	SAIL-M12BG-5-1.5Q	1.5 Meter	1926780150
Female 5-pole	SAIL-M12BG-5-3.0Q	3.0 Meter	1926780300
	SAIL-M12BG-5-5.0Q	5.0 Meter	1926780500
	SAIL-M12BG-5-10Q	10 Meter	1926781000
M12 right angle	SAIL-M12BW-3-1.5Q	1.5 Meter	1926820150
Female 3-pole	SAIL-M12BW-3-3.0Q	3.0 Meter	1926820300
	SAIL-M12BW-3-5.0Q	5.0 Meter	1926820500
	SAIL-M12BW-3-10Q	10 Meter	1926821000
M12 right angle	SAIL-M12BW-4-1.5Q	1.5 Meter	1926830150
Female 4-pole	SAIL-M12BW-4-3.0Q	3.0 Meter	1926830300
	SAIL-M12BW-4-5.0Q	5.0 Meter	1926830500
	SAIL-M12BW-4-10Q	10 Meter	1926831000
M12 right angle	SAIL-M12BW-5-1.5Q	1.5 Meter	1926840150
Female 5-pole	SAIL-M12BW-5-3.0Q	3.0 Meter	1926840300
	SAIL-M12BW-5-5.0Q	5.0 Meter	1926840500
	SAIL-M12BW-5-10Q	10 Meter	1926841000
M8 straight	SAIL-M8BG-3-1.5Q	1.5 Meter	1926980150
Female 3-pole	SAIL-M8BG-3-3.0Q	3.0 Meter	1926980300
	SAIL-M8BG-3-5.0Q	5.0 Meter	1926980500
	SAIL-M8BG-3-10Q	10 Meter	1926981000
M8 straight	SAIL-M8BG-4-1.5Q	1.5 Meter	1927000150
Female 4-pole	SAIL-M8BG-4-3.0Q	3.0 Meter	1927000300
	SAIL-M8BG-4-5.0Q	5.0 Meter	1927000500
	SAIL-M8BG-4-10Q	10 Meter	1927001000
M8 right angle	SAIL-M8BW-3-1.5Q	1.5 Meter	1927060150
Female 3-pole	SAIL-M8BW-3-3.0Q	3.0 Meter	1927060300
	SAIL-M8BW-3-5.0Q	5.0 Meter	1927060500
	SAIL-M8BW-3-10Q	10 Meter	1927061000
M8 right angle	SAIL-M8BW-4-1.5Q	1.5 Meter	1927080150
Female 4-pole	SAIL-M8BW-4-3.0Q	3.0 Meter	1927080300
	SAIL-M8BW-4-5.0Q	5.0 Meter	1927080500
	SAIL-M8BW-4-10Q	10 Meter	1927081000
Bulk Cable	SAIH-SLL-3x0.34mm <sup>2</sup> (TPE)		1022940000
3-pole	SAIH-SLL-3x0.25mm <sup>2</sup> (TPE)		1022970000
Bulk Cable	SAIH-SLL-4x0.34mm <sup>2</sup> (TPE)		1022950000
4-pole	SAIH-SLL-4x0.25mm <sup>2</sup> (TPE)		1022980000
Bulk Cable	SAIH-SLL-5x0.34mm <sup>2</sup> (TPE)		1022960000
5-pole			
<b>Note</b>	Bulk cable sold in 100 meter cable rings.		

PUR/PVC Cable 0.25 mm<sup>2</sup> and 0.34 mm<sup>2</sup>

## Technical Data

Cross section	0.34 mm <sup>2</sup>	0.25 mm <sup>2</sup>
Stranding	42 x 0.10 mm	32 x 0.10 mm
Primary insulation	PVC	PVC
Outer jacket	PUR	PUR
Jacket color	black	black
Cable OD	3-pole: 4.8 ± 0.2 mm	3-pole: 4.6 ± 0.2 mm
	4-pole: 5.2 ± 0.2 mm	4-pole: 5.0 ± 0.2 mm
	5-pole: 5.6 ± 0.2 mm	
Resistance	Excellent oil resistance	
	Very good abrasion resistance	
	Good resistance against acids, leach and solvents	
	Flame resistant and self-extinguishing	
Other Jacket properties	Free of Cadmium and Silicone	
	Free of paint wetting impairment substances	
Temperature rating	Static: - 30 °C to + 80 °C	
	Flexible: - 5 °C to + 80 °C	
Approvals	UL/CSA approval	
	CE conform	
Bending radius	approx. 10 x cable OD for flexible application	
Speed	max. 1.75 m/s at 2.1 m horizontal path length	
Acceleration	max. 50 m/s <sup>2</sup>	
Cycles	min. 20 million	

Please reference the Business to Business (B2B) Center for information about additional configurations such as male connectors, LED versions, extension cord sets and different lengths.

## Ordering Data

Description	Type	Length	Part No.
M12 straight	SAIL-M12BG-3-1.5U	1.5 Meter	9457820150
Female 3-pole	SAIL-M12BG-3-3.0U	3.0 Meter	9457820300
	SAIL-M12BG-3-5.0U	5.0 Meter	9457820500
	SAIL-M12BG-3-10U	10 Meter	9457821000
M12 straight	SAIL-M12BG-4-1.5U	1.5 Meter	9457730150
Female 4-pole	SAIL-M12BG-4-3.0U	3.0 Meter	9457730300
	SAIL-M12BG-4-5.0U	5.0 Meter	9457730500
	SAIL-M12BG-4-10U	10 Meter	9457731000
M12 straight	SAIL-M12BG-5-1.5U	1.5 Meter	9457910150
Female 5-pole	SAIL-M12BG-5-3.0U	3.0 Meter	9457910300
	SAIL-M12BG-5-5.0U	5.0 Meter	9457910500
	SAIL-M12BG-5-10U	10 Meter	9457911000
M12 right angle	SAIL-M12BW-3-1.5U	1.5 Meter	9457320150
Female 3-pole	SAIL-M12BW-3-3.0U	3.0 Meter	9457320300
	SAIL-M12BW-3-5.0U	5.0 Meter	9457320500
	SAIL-M12BW-3-10U	10 Meter	9457321000
M12 right angle	SAIL-M12BW-4-1.5U	1.5 Meter	9457740150
Female 4-pole	SAIL-M12BW-4-3.0U	3.0 Meter	9457740300
	SAIL-M12BW-4-5.0U	5.0 Meter	9457740500
	SAIL-M12BW-4-10U	10 Meter	9457741000
M12 right angle	SAIL-M12BW-5-1.5U	1.5 Meter	9457690150
Female 5-pole	SAIL-M12BW-5-3.0U	3.0 Meter	9457690300
	SAIL-M12BW-5-5.0U	5.0 Meter	9457690500
	SAIL-M12BW-5-10U	10 Meter	9457691000
M8 straight	SAIL-M8BG-3-1.5U	1.5 Meter	9457450150
Female 3-pole	SAIL-M8BG-3-3.0U	3.0 Meter	9457450300
	SAIL-M8BG-3-5.0U	5.0 Meter	9457450500
	SAIL-M8BG-3-10U	10 Meter	9457451000
M8 straight	SAIL-M8BG-4-1.5U	1.5 Meter	9457850150
Female 4-pole	SAIL-M8BG-4-3.0U	3.0 Meter	9457850300
	SAIL-M8BG-4-5.0U	5.0 Meter	9457850500
	SAIL-M8BG-4-10U	10 Meter	9457851000
M8 right angle	SAIL-M8BW-3-1.5U	1.5 Meter	9457380150
Female 3-pole	SAIL-M8BW-3-3.0U	3.0 Meter	9457380300
	SAIL-M8BW-3-5.0U	5.0 Meter	9457380500
	SAIL-M8BW-3-10U	10 Meter	9457381000
M8 right angle	SAIL-M8W-4-1.5U	1.5 Meter	9456150150
Female 4-pole	SAIL-M8W-4-3.0U	3.0 Meter	9456150300
	SAIL-M8W-4-5.0U	5.0 Meter	9456150500
	SAIL-M8W-4-10U	10 Meter	9456151000
Bulk Cable	SAIH-SLL-3x0.34mm <sup>2</sup> (PUR)		1902110000
3-pole	SAIH-SLL-3x0.25mm <sup>2</sup> (PUR)		1902140000
Bulk Cable	SAIH-SLL-4x0.34mm <sup>2</sup> (PUR)		1902130000
4-pole	SAIH-SLL-4x0.25mm <sup>2</sup> (PUR)		1902120000
<b>Note</b>	Bulk cable sold in 100 meter cable rings.		

