

**SAIS-M23-19P-ST-3,0M****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Sensor/actuator cables are used for wiring sensors and actuators and for transmitting data or power in various applications. The moulded cable offers connected and tested connection of the plug-in connector to the cable ex-works. The cables may be exposed to a wide range of conditions, such as humidity, dust, heat, cold, shock or vibration.

The M23 cables offer: high mating frequency, high current carrying capacity and high-density contacts coupled with minimal dimensions.

Is there something you have not managed to find or you feel needs explanation? Talk to us!

**General ordering data**

Version	Sensor/actuator line, One end without connector, M23, Number of poles: 19, 3 m, pin, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<a href="#">1818160300</a>
Type	SAIS-M23-19P-ST-3,0M
GTIN (EAN)	4032248473823
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Net weight	440 g
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## Technical specifications for cable

Bending cycles	2 Mio	Bending radius, min., moving	10 x cable diameter
Cable length	3 m	Colour coding	violet, red, grey, red / blue, green, blue, grey / pink, white / green, white / yellow, white / grey, black, Green/yellow, Yellow / brown, brown / green, white, yellow, pink, grey / brown, brown
Core in accordance with UL AWM style	10493 (80 °C / 300 V)	Halogen	No
Insulation	TPM	Irradiation crosslinked	No
Number of poles	19	Outer cladding in accordance with UL AWM style	21198 (80 °C / 300 V)
Outside diameter	9.1 mm ± 0.3 mm	Resistant to welding beads	No
Sheath material	PUR	Sheathing colour	black
Shielded	No	Suitable for cable carriers	Yes
Temperature range, moving	-25...80 °C	Temperature range, stationary	-50...80 °C
Torsion resistance	0 °/m	Welding spark resistance	No
Wire cross section (Print/Online)	3 x 0.75 mm <sup>2</sup> + 16 x 0.34 mm <sup>2</sup>		

## General technical data

Connection side version	Connection side	1
	Connection thread	M23
	Type of contact	Pin
	Type of thread	External thread
	Outlet direction	straight
Connection side version 1	M23, Pin, External thread, straight	
Connection thread	M23	
Contact surface	Gold-plated	
Housing main material	PUR	
Insulation strength	10 <sup>12</sup> Ω	
LED	No	
Plugging cycles	≥ 50	
Pollution severity	2	
Protection degree	IP67	
Rated current	8 A	
Rated voltage	120 V	
Temperature range of housing	-25...+80 °C	
Threaded ring material	Diecast zinc	
Tightening torque	M23: 2.5 Nm	
Version	pin, straight	
jumpered	No	

## Electrical properties

Insulation strength	10 <sup>12</sup> Ω	Rated voltage	120 V
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## Technical data

## General standards

Certificate No. (cURus)	E486077
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## Plug, left

Plug left	IP67, male contact, straight, Plastic, unshield- ed
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## Plug, right

Plug right	free conductor end
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## Classifications

ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ETIM 9.0	EC001855
ECLASS 9.0	27-06-03-11	ECLASS 9.1	27-06-03-11
ECLASS 10.0	27-06-03-11	ECLASS 11.0	27-06-03-11
ECLASS 12.0	27-06-03-11	ECLASS 13.0	27-06-03-11

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	e8d8af70-4c85-4483-bc8c-9bc5b598e2a9

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E486077

## Downloads

Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a>

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# Drawings

## Dimensioned drawing



Male, straight

## Wiring diagram

1	violet
2	red
3	grey
4	red/blue
5	green
6	grey/pink
7	white/green
8	white/yellow
9	white/grey
10	black
11	yellow/brown
12	brown/green
13	white
14	yellow
15	pink
16	grey/brown
17	blue
18	green/yellow
19	brown

## Pole scheme



Male

## The ideal tool: Screwty® with torque function



Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 1920000000 Adapters: M12, M12 F, M8, M8 F

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## Accessories

## Screwty® cable gland tool with torque function



## The ideal tool for any application

Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

## General ordering data

Type	1/4" HANDGRIFF	Version
Order No.	<a href="#">4294820000</a>	Bolting tool
GTIN (EAN)	4032248478279	
Qty.	1 pc(s).	

## Screwty for M23 moulded cables and customisable connectors



The Screwty® attachment is suitable for customisable M23 round plug-in connectors and for overmoulded M23 round plug-in connectors, with an outside dimension of the knurled nut of  $26.2 \pm 0.3$  mm. The tightening torque is 2-2.5 Nm.

## General ordering data

Type	SCREWTY M23	Version	Packaging
Order No.	<a href="#">1981560000</a>	Cable gland tool adapter for M23 lines and connectors	Plastic bag
GTIN (EAN)	4032248677702		
Qty.	1 pc(s).		