

**SAIB-M23-12P-AN-20M****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, Inner thread, Number of poles: 12, 20 m, Socket, angled, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<a href="#">1877442000</a>
Type	SAIB-M23-12P-AN-20M
GTIN (EAN)	4032248725175
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Net weight	1,756 g
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## Technical specifications for cable

Bending cycles	2 Mio	Bending radius, min., moving	10 x cable diameter
Cable length	20 m	Colour coding	white, green, yellow, grey, pink, red, black, violet, blue, brown, Green/yellow
Halogen	No	Insulation	TPM
Irradiation crosslinked	No	Number of poles	12
Outer cladding in accordance with UL AWM style	21198 (80 °C / 300 V)	Outside diameter	7.7 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> + 8 x 0.34 mm <sup>2</sup>

## General technical data

Connection side version	Connection thread	M23
	Type of contact	Socket
	Type of thread	Inner thread
	Outlet direction	angled
Connection thread	M23, Inner thread	
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	Socket, angled	
jumpered	No	

## Electrical properties

Insulation strength	10 <sup>12</sup> Ω	Rated voltage	120 V
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## General standards

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

Plug left	IP67, female contact, angled 90°, Plastic, unshielded
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## Technical data

## 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>

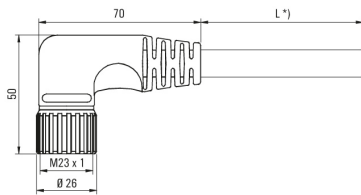
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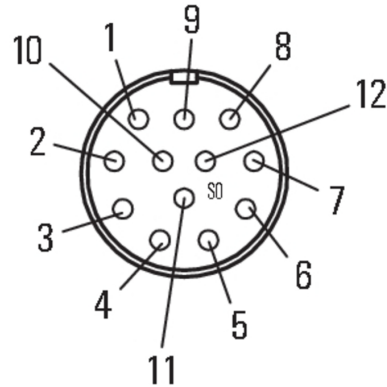
# Drawings

## Dimensioned drawing



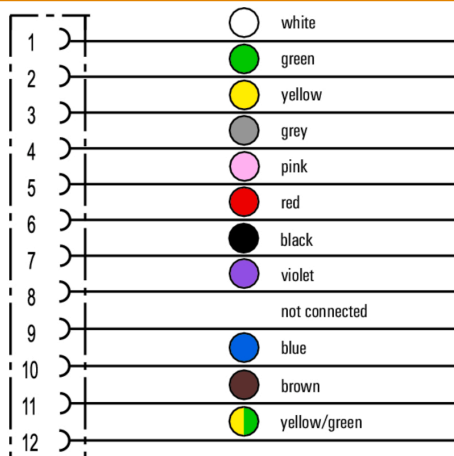
Angled socket

## Pole scheme



Socket

## Wiring diagram



## The ideal tool: Screwty<sup>®</sup> 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).		