Data sheet

SAIS-M23-12P-ST-1,0M

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, External thread, Number of poles: 12, 1 m, pin, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	1906280100
Type	SAIS-M23-12P-ST-1,0M
GTIN (EAN)	4032248528776
Qty.	1 items

Data sheet

SAIS-M23-12P-ST-1,0M

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Approvals

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

Dimensions and weights

Net weight	134.64 g

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	e8d8af70-4c85-4483-bc8c-9bc5b598e2a9

Technical specifications for cable

Cable length	1 m	Sheathing colour	black
Suitable for cable carriers	Yes	Shielded	No
Halogen	No	Insulation	TPM
Bending radius, min., moving	10 x cable diameter	Bending cycles	2 Mio
Wire cross section (Print/Online)	3 x 0.75 mm² + 8 x 0.34 mm²	Sheath material	PUR
Outer cladding in accordance with UL AWM style	21198 (80 °C / 300 V)	Irradiation crosslinked	No
Welding spark resistance	No	Colour coding	white, green, yellow, grey, pink, red, black, violet, blue, brown, Green/yellow
Torsion resistance	0 °/m	Temperature range, stationary	-50...80 °C
Resistant to welding beads	No	Temperature range, moving	-25...80 °C
Number of poles	12	Outside diameter	7.7 mm ± 0.3 mm

General technical data

Connection thread	M23, External thread	
Contact surface	Gold-plated	
LED	No	
Version	pin, straight	
Housing main material	PUR	
Insulation resistance	1012 Ω	
Nominal voltage	120 V	
Nominal current	8 A	
Protection degree	IP67	
Plugging cycles	≥ 50	
Pollution severity	2	
jumpered	No	
Connection side version	Connection side	1
	Connection thread	M23
	Type of contact	Pin
	Type of thread	External thread
	Outlet direction	angled

SAIS-M23-12P-ST-1,0M

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Connection side version 1	M23, Pin, External thread, angled
Threaded ring material	Diecast zinc
Temperature range of housing	-25...+80 °C
Tightening torque	M23: 2.5 Nm

Electrical properties

Insulation resistance	1012 Ω	Nominal voltage	120 V

General standards

Certificate No. (cURus)	E486077

Plug, left

Plug left	IP67, male contact, straight, Plastic, unshielded

Plug, right

Plug right	free conductor end

Classifications

ETIM 8.0	EC001855	ETIM 9.0	EC001855
ETIM 10.0	EC001855	ECLASS 14.0	27-06-03-11
ECLASS 15.0	27-06-03-11		

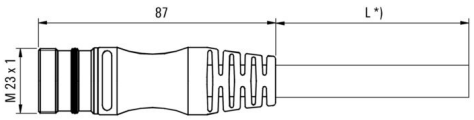
SAIS-M23-12P-ST-1,0M

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

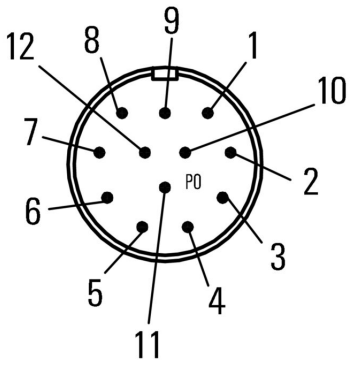
Drawings

Dimensioned drawing



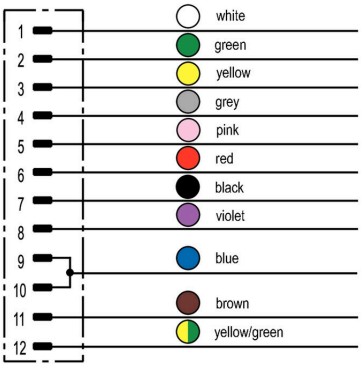
Male, straight

Pole scheme



Male

Wiring diagram



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

SAIS-M23-12P-ST-1,0M

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

SAIS-M23-12P-ST-1,0M

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Accessories

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 ±0.3 mm. The tightening torque is 2-2.5 Nm.

General ordering data

Type	SCREWTY M23	Version
Order No.	1981560000	Cable gland tool adapter for M23 lines and connectors
GTIN (EAN)	4032248677702	
Qty.	1 ST	

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.	4294820000	Bolting tool
GTIN (EAN)	4032248478279	
Qty.	1 ST	