

**SAIB-M23-19P-ST-3,0M****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, Number of poles: 19, 3 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1818180300</a>                                                                                                                                        |
| Type       | SAIB-M23-19P-ST-3,0M                                                                                                                                              |
| GTIN (EAN) | 4032248473878                                                                                                                                                     |
| Qty.       | 1 items                                                                                                                                                           |

## SAIB-M23-19P-ST-3,0M

**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 435 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                                   | 3 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 mm <sup>2</sup> + 16 x 0.34 mm <sup>2</sup>                                                                                                                                               | Sheath material                      | PUR                   |
| Outer cladding in accordance with UL AWM style | 21198 (80 °C / 300 V)                                                                                                                                                                              | Core in accordance with UL AWM style | 10493 (80 °C / 300 V) |
| Irradiation crosslinked                        | No                                                                                                                                                                                                 | Welding spark resistance             | No                    |
| 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 | Torsion resistance                   | 0 °/m                 |
| Temperature range, stationary                  | -50...80 °C                                                                                                                                                                                        | Resistant to welding beads           | No                    |
| Temperature range, moving                      | -25...80 °C                                                                                                                                                                                        | Number of poles                      | 19                    |
| Outside diameter                               | 9.1 mm ± 0.3 mm                                                                                                                                                                                    |                                      |                       |

## General technical data

|                       |                         |
|-----------------------|-------------------------|
| Connection thread     | M23                     |
| Contact surface       | Gold-plated             |
| LED                   | No                      |
| Version               | Female socket, 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                      |

## SAIB-M23-19P-ST-3,0M

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

|                              |                                     |              |
|------------------------------|-------------------------------------|--------------|
| Connection side version      | Connection side                     | 1            |
|                              | Connection thread                   | M23          |
|                              | Type of contact                     | Socket       |
|                              | Type of thread                      | Inner thread |
|                              | Outlet direction                    | straight     |
| Connection side version 1    | M23, Socket, Inner thread, straight |              |
| 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, female contact, straight, Plastic, unshielded |
|-----------|-----------------------------------------------------|

## Plug, right

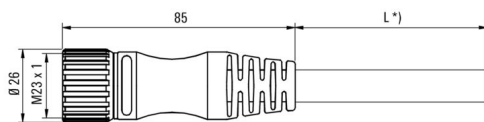
|            |                    |
|------------|--------------------|
| Plug right | free conductor end |
|------------|--------------------|

## 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 |             |             |

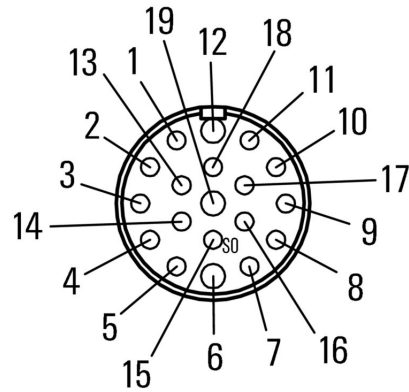
## Drawings

### Dimensioned drawing



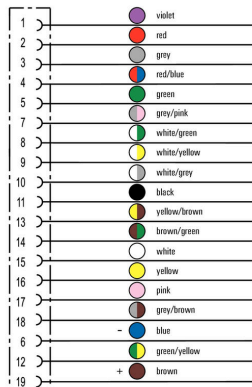
Straight socket

### Pole scheme



Socket

### 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



## SAIB-M23-19P-ST-3,0M

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

[www.weidmueller.com](http://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  $26.2 \pm 0.3$  mm. The tightening torque is 2-2.5 Nm.

## General ordering data

|            |                            |                                                       |
|------------|----------------------------|-------------------------------------------------------|
| Type       | SCREWTY M23                | Version                                               |
| Order No.  | <a href="#">1981560000</a> | 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.  | <a href="#">4294820000</a> | Bolting tool |
| GTIN (EAN) | 4032248478279              |              |
| Qty.       | 1 ST                       |              |