

**SAIB-M23-19P-ST-45M****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, 45 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1818184500</a>   |
| Type       | SAIB-M23-19P-ST-45M  |
| GTIN (EAN) | 4050118042368  |
| Qty.       | 1 pc(s).   |

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## Technical data

## Dimensions and weights

|            |         |
|------------|---------|
| Net weight | 5,560 g |
|------------|---------|

## Technical specifications for cable

|                                      |  |  |  |
|--------------------------------------|--|--|--|
| Bending cycles                       | 2 Mio  | Bending radius, min., moving                   | 10 x cable diameter  |
| Cable length                         | 45 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                     | Socket       |
|                              | Type of thread                      | Inner thread |
|                              | Outlet direction                    | straight     |
| Connection side version 1    | M23, Socket, Inner 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                      | Female socket, 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 |
|-------------------------|---------|

## Plug, left

|           |   |
|-----------|---|
| Plug left | IP67, female contact, straight, Plastic, unshielded |
|-----------|---|

## Plug, right

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

## 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       | ebf89fc8-a87f-4691-b87a-dfb9921774b4 |

## 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



Straight socket

### Pole scheme



Socket

### Wiring diagram

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

### 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).                   |   |             |