

**SAIB-M23-12P-AN-1,0M****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, Inner thread, Number of poles: 12, 1 m, Socket, angled, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1877440100</a>   |
| Type       | SAIB-M23-12P-AN-1,0M   |
| GTIN (EAN) | 4032248526772  |
| Qty.       | 1 pc(s).   |

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## Technical data

## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 169 g |
|------------|-------|

## Technical specifications for cable

|  |                       |                                   |   |
|--|-----------------------|-----------------------------------|---|
| Bending cycles                                 | 2 Mio                 | Bending radius, min., moving      | 10 x cable diameter   |
| Cable length                                   | 1 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 |
|---------------------|--------------------|---------------|-------|

## General standards

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E486077 |
|-------------------------|---------|

## Plug, left

|           |   |
|-----------|---|
| Plug left | IP67, female contact, angled 90°, Plastic, unshielded |
|-----------|---|

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## Technical data

## 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       | 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><br><a href="#">FL FIELDWIRING EN</a> |

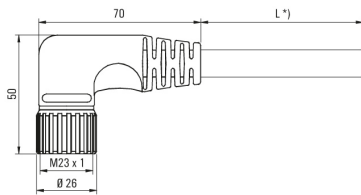
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# Drawings

## Dimensioned drawing



Angled socket

## Pole scheme



Socket

## Wiring diagram

|    |   |               |
|----|---|---------------|
| 1  |  | white         |
| 2  |  | green         |
| 3  |  | yellow        |
| 4  |  | grey          |
| 5  |  | pink          |
| 6  |  | red           |
| 7  |  | black         |
| 8  |  | violet        |
| 9  |   | not connected |
| 10 |  | blue          |
| 11 |  | brown         |
| 12 |  | yellow/green  |

## 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).                   |   |             |