

**SAIB-M23-19P-ST-3,0M****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, 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 pièce(s)                                                                                                                                                        |

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## Caractéristiques techniques

## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 435 g |
|------------|-------|

## Technical specifications for cable

|                                      |                                                      |                                                |                                                                                                                                                                                                    |
|--------------------------------------|------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bending cycles                       | 2 Mio                                                | Bending radius, min., moving                   | 10 x cable diameter                                                                                                                                                                                |
| Cable length                         | 3 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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## Caractéristiques techniques

## 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 |
| ECLASS 14.0 | 27-06-03-11 |             |             |

## 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 |

## 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>        |

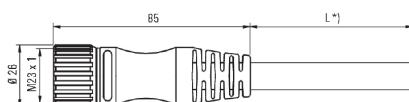
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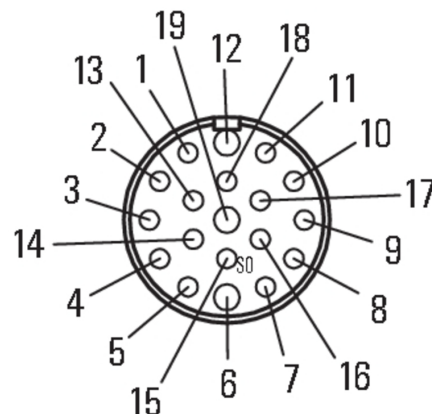
## Dessins

### 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