Data sheet

# SAIB-M23-19P-AN-10M

**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, 10 m, Socket, angled, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No. | 1818141000 |
| Type | SAIB-M23-19P-AN-10M |
| GTIN (EAN) | 4032248310920 |
| Qty. | 1 items |



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# Technical data

### Approvals

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

### Dimensions and weights

| | |
|---|---|
| Net weight | 1118.48 g |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | ebf89fc8-a87f-4691-b87a-dfb9921774b4 |

### Technical specifications for cable

| | | | |
|---|---|---|---|
| Cable length | 10 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 + 16 x 0.34 mm² | 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 | Socket, angled | |
| 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 |



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# Technical data

| | | | |
|---|---|---|---|
| | Connection thread | M23 | |
| | Type of contact | Socket | |
| | Type of thread | Inner thread | |
| | Outlet direction | angled | |
| Connection side version 1 | M23, Socket, Inner 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, female contact, angled 90°, 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 | | |



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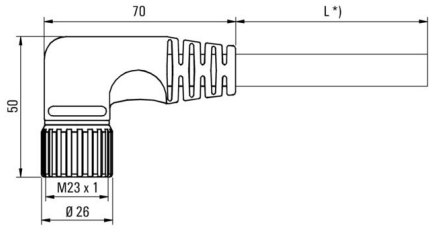
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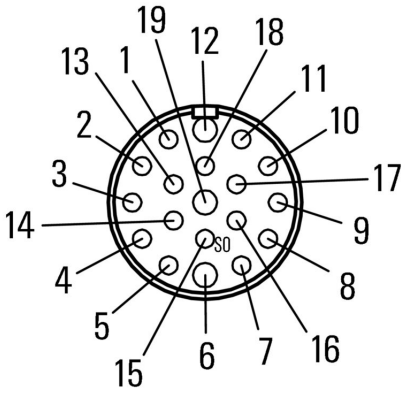
# Drawings

### Dimensioned drawing



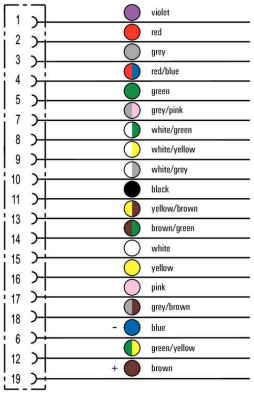

Angled socket

### 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



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## Drawings



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## 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 | |



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