

SAIB-M23-19P-ST-1,0M**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, 1 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No. | 1818180100 |
| Type | SAIB-M23-19P-ST-1,0M |
| GTIN (EAN) | 4032248473861 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | |
|------------|-------|
| Net weight | 187 g |
|------------|-------|

Technical specifications for cable

| | | | |
|--------------------------------------|--|--|--|
| Bending cycles | 2 Mio | Bending radius, min., moving | 10 x cable diameter |
| Cable length | 1 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 ² + 16 x 0.34 mm ² | | |

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 ¹² 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 ¹² 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 | e8d8af70-4c85-4483-bc8c-9bc5b598e2a9 |
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |

Approvals

Approvals



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

Downloads

| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN FL FIELDWIRING EN |

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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[®] 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. | 4294820000 | 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 ± 0.3 mm. The tightening torque is 2-2.5 Nm.

General ordering data

| | | | |
|------------|----------------------------|---|-------------|
| Type | SCREWTY M23 | Version | Packaging |
| Order No. | 1981560000 | Cable gland tool adapter for M23 lines and connectors | Plastic bag |
| GTIN (EAN) | 4032248677702 | | |
| Qty. | 1 pc(s). | | |