

**SAIS-M23-19P-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, Number of poles: 19, 1 m, pin, 90&deg;, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1818090100</a>                                                                                                                             |
| Type       | SAIS-M23-19P-AN-1,0M                                                                                                                                   |
| GTIN (EAN) | 4032248498246                                                                                                                                          |
| Qty.       | 1 pc(s).                                                                                                                                               |

Creation date March 25, 2021 1:40:49 PM CET

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## Technical data

## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 213 g |
|------------|-------|

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## 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                                                                                                                                                                                                 |        |
| Housing main material                          | PUR                                                                                                                                                                                                |        |
| Insulation                                     | TPM                                                                                                                                                                                                |        |
| Number of poles                                | 19                                                                                                                                                                                                 |        |
| Number of poles                                | 19                                                                                                                                                                                                 |        |
| Outer cladding in accordance with UL AWM style | 21198 (80 °C / 300 V)                                                                                                                                                                              |        |
| Outer diameter                                 | 9.1 ± 0.3 mm                                                                                                                                                                                       |        |
| Outside diameter                               | 9.1 mm ± 0.3 mm                                                                                                                                                                                    |        |
| Outside diameter                               | Diameter                                                                                                                                                                                           | 9.1 mm |
|                                                | Signs                                                                                                                                                                                              | ±      |
|                                                | Tolerance                                                                                                                                                                                          | 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, moving, max.                | 80 °C                                                                                                                                                                                              |        |
| Temperature range, moving, min.                | -25 °C                                                                                                                                                                                             |        |
| Temperature range, stationary                  | -50...80 °C                                                                                                                                                                                        |        |
| Temperature range, stationary, max.            | 80 °C                                                                                                                                                                                              |        |
| Temperature range, stationary, min.            | -50 °C                                                                                                                                                                                             |        |
| Torsion resistance                             | 0 °/m                                                                                                                                                                                              |        |
| Wire cross section                             | 12-pole (8x0.34+3x0.75)/19-pole (16x0.34+3x0.75)                                                                                                                                                   |        |

## General technical data

|                           |                                   |                 |
|---------------------------|-----------------------------------|-----------------|
| Connection side version   | Connection side                   | 1               |
|                           | Connection thread                 | M23             |
|                           | Type of contact                   | Pin             |
|                           | Type of thread                    | External thread |
|                           | Outlet direction                  | angled          |
| Connection side version 1 | M23, Pin, External thread, angled |                 |
| 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                                 |                 |

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|                              |              |
|------------------------------|--------------|
| 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                      | pin, 90&deg; |
| jumpered                     | No           |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001855    | ETIM 7.0    | 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 |

**Approvals**

Approvals



ROHS

Conform

**Downloads**

|                  |                              |
|------------------|------------------------------|
| Engineering Data | <a href="#">STEP</a>         |
| Engineering Data | <a href="#">EPLAN, WSCAD</a> |

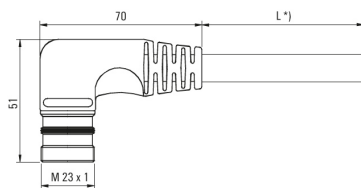
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# Drawings

## Dimensioned drawing

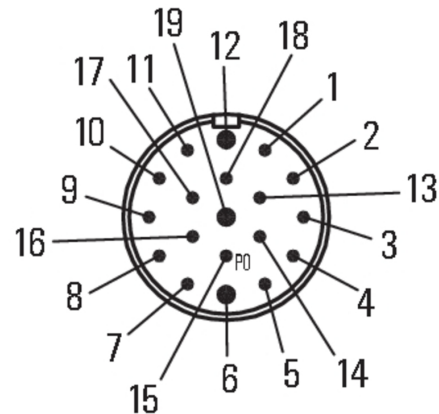


Male, angled

## 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      |

## Pole scheme



Male

## 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