

IE-BS-M12X-S-FH

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



M12 X-type Cat 6 A field-assembled connectors and PCB
sockets

General ordering data

| | |
|------------|--|
| Version | Plug-in connector, M12, IDC, Cat.6A / Class EA (ISO/IEC 11801 2010), IP67 plugged |
| Order No. | 1516340000 |
| Type | IE-BS-M12X-S-FH |
| GTIN (EAN) | 4050118323795 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



| | |
|-------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E316369 |

Dimensions and weights

| | | | |
|----------------------|---------|----------------------|--------|
| Diameter | 16.8 mm | Wall thickness, min. | 0.9 mm |
| Wall thickness, max. | 4 mm | Net weight | 28 g |

Temperatures

| | | |
|--------------------------|-----------------------|----------------|
| Storage temperature | Operating temperature | -40 °C...85 °C |
| Installation temperature | | |

Environmental Product Compliance

| | |
|------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 67cf1078-beca-4687-860b-dc475a6ec24a |

Technical data customisable plug-in connectors

| | | | |
|-------------------------------|------------------------------------|-------------------------------|---|
| Number of poles | 8 | Coding | X-coded |
| Contact surface | Gold-plated | LED | No |
| Type of connection | Insulation displacement connection | Housing main material | Zinc diecast |
| Insulation resistance | 100 MΩ | Cable diameter, max. | 9.7 mm |
| Cable diameter, min. | 5 mm | Category | Cat.6A / Class EA (ISO/ IEC 11801 2010) |
| Contact material | CuZn | Conductor cross-section, max. | 0.34 mm ² |
| Conductor cross-section, min. | 0.14 mm ² | Nominal voltage | 48 V |
| Nominal current | 0.5 A | Protection degree | IP67 plugged |
| Plugging cycles | ≥ 100 | Pollution severity | 2 |
| Shield connection | Yes, screwed | Threaded ring material | Zinc diecast, tin plated |

General Info

| | | | |
|--|---|--|-----------------|
| Number of poles | 8 | Connection 1 | M12 |
| Connection 2 | IDC | UL 94 flammability rating | V-0 |
| Housing main material | Zinc diecast | Insulation cross-section, max. | 1.6 mm |
| Category | Cat.6A / Class EA (ISO/ IEC 11801 2010) | Connection thread | M12 |
| Contact material | CuZn | Contact surface | Gold-plated |
| Wire connection diameter, solid, min. | 0.4 mm | Connection diameter, solid | 0.4...0.64 mm |
| Wire connection diameter, solid, max. | 0.64 mm | Conductor connection cross-section, solid (AWG) | AWG 24...AWG 22 |
| Wire cross-section, solid, min. (AWG) | AWG 24 | Connection diameter, flexible | 0.48...0.76 mm |
| Wire cross-section, solid, max. (AWG) | AWG 22 | Conductor connection cross-section, flexible (AWG) | AWG 26...AWG 22 |
| Wire connection diameter, flexible, min. | 0.48 mm | Wire connection diameter, flexible, max. | 0.76 mm |

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| Wire connection cross section, finely stranded, max. | 0.32 mm ² | Wire cross-section, solid, min. | 0.34 mm ² |
| Wire cross-section, solid, max. | 0.32 mm ² | Conductor connection cross-section, flexible | ...0.32 mm ² |
| Wire cross-section, finely stranded, min. AWG 26 (AWG) | AWG 26 | Wire cross-section, finely stranded, max. AWG 22 (AWG) | AWG 22 |
| Sheath diameter, min. | 5 mm | Sheath diameter, max. | 9.7 mm |
| Contact holder materials | PA | Shielding | 360° all-round enclosure |
| Protection degree | IP67 plugged | Plugging cycles | ≥ 100 |

Electrical properties

| | | | |
|-----------------------|----------------------------|-----------------|------|
| Insulation resistance | 100 MΩ | Nominal voltage | 48 V |
| PoE / PoE+ | conforming to IEEE 802.3at | | |

General standards

| | | | |
|--------------------|-----------------|-------------------------|---------|
| Connector standard | IEC 61076-2-109 | Certificate no. (cULus) | E316369 |
|--------------------|-----------------|-------------------------|---------|

Standards

| | |
|--------------------|-----------------|
| Connector standard | IEC 61076-2-109 |
|--------------------|-----------------|

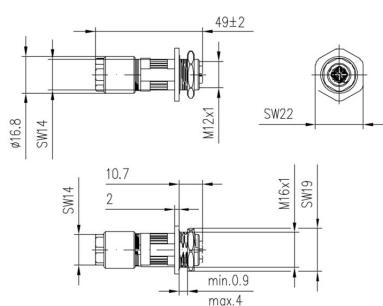
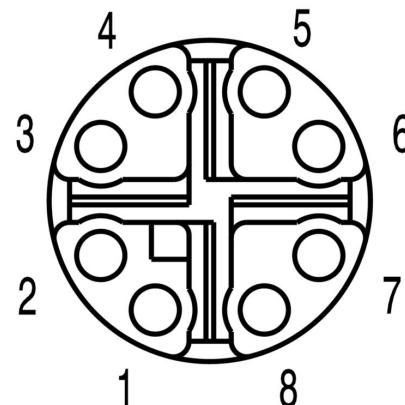
Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002635 | ETIM 9.0 | EC002635 |
| ETIM 10.0 | EC002635 | ECLASS 14.0 | 27-44-01-16 |
| ECLASS 15.0 | 27-44-01-16 | | |

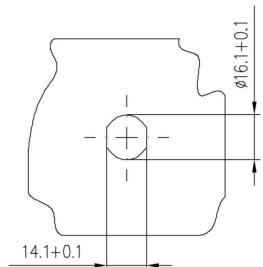
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Drawings**Dimensioned drawing****Pole scheme****Installation cut-out**

$t = \text{min. } 0.9 / \text{max. } 4$



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Accessories

Screwy® cable gland tool



The ideal tool for any application
Screwy® 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 | SCREWTY SET | Version |
| Order No. | 1910000000 | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436842 | |
| Qty. | 1 ST | |

Screwy® cable gland tool with torque function



The ideal tool for any application
Screwy® 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 | SCREWTY SET -DM | Version |
| Order No. | 1920000000 | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436859 | |
| Qty. | 1 ST | |

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General ordering data

| | | |
|------------|----------------------------|-------------------------------------|
| Type | SCREWTY-M12 F | Version |
| Order No. | 1900020000 | Cable gland tool for M12 connectors |
| GTIN (EAN) | 4032248375851 | |
| Qty. | 1 ST | |

Screwy® cable gland tool with torque function



The ideal tool for any application
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General ordering data

| | | |
|------------|----------------------------|-------------------------------------|
| Type | SCREWTY-M12 F-DM | Version |
| Order No. | 1900021000 | Cable gland tool for M12 connectors |
| GTIN (EAN) | 4032248436828 | |
| Qty. | 1 ST | |