

**IE-PS-M12X-S-FH****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Individual cable lengths are often required nowadays. In order to meet these demands, Weidmüller offers a wide range of plug-in connectors for custom assembly. Male plugs and female socket for customisable assembly for M8, M12, M16 and 7/8" connections which are highly robust and ideally suited to machine engineering, for instance. The M12 plug-in connectors offer a choice of 5 different connection systems. The IDC is simple and quick to assemble since this technology allows the conductor to be inserted directly into the terminal point, without crimping or having to strip the insulation. It also has excellent functional security.

**General ordering data**

Version	Sockets prefabricated to customer spec., M12, IDC, Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), IP67 plugged
Order No.	<a href="#">1516330000</a>
Type	IE-PS-M12X-S-FH
GTIN (EAN)	4050118323788
Qty.	1 pc(s).



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## Technical data

## Dimensions and weights

Net weight	23 g
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## Temperatures

Operating temperature	-40 °C...85 °C
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## Technical data customisable plug-in connectors

Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)	Coding	X-coded
Contact material	Brass	Contact surface	Gold-plated
Housing main material	Zinc diecast	Insulation strength	100 MΩ
Number of poles	8	Plugging cycles	≥ 100
Protection degree	IP67 plugged	Rated voltage	48 V
Shield connection	Yes, screwed		

## General Info

Number of poles	8	Connection 1	M12
Connection 2	IDC	Housing main material	Zinc diecast
Insulation cross-section, max.	1.6 mm	Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Connection thread	M12	Contact material	Brass
Contact surface	Gold-plated	Connection diameter, solid	0.4...0.64 mm
Wire connection diameter, solid, min.	0.4 mm	Conductor connection cross-section, solid (AWG)	AWG 24...AWG 22
Wire connection diameter, solid, max.	0.64 mm	Connection diameter, flexible	0.48...0.76 mm
Wire cross-section, solid, min. (AWG)	AWG 24	Conductor connection cross-section, flexible (AWG)	AWG 26...AWG 22
Wire cross-section, solid, max. (AWG)	AWG 22	Wire connection diameter, flexible, min.	0.48 mm
Wire connection diameter, flexible, max.	0.76 mm	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, finely stranded, max. (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 strength	100 MΩ	PoE / PoE+	conforming to IEEE 802.3at
Rated voltage	48 V		

## General standards

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

Connector standard	IEC 61076-2-109	Fire safety for railway vehicles	DIN EN 45545-2
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## Classifications

ETIM 6.0	EC002635	ETIM 7.0	EC002635
ETIM 8.0	EC002635	ETIM 9.0	EC002635
ECLASS 9.0	27-44-01-02	ECLASS 9.1	27-44-01-03
ECLASS 10.0	27-44-01-02	ECLASS 11.0	27-44-01-02
ECLASS 12.0	27-44-01-16	ECLASS 13.0	27-44-01-02
ECLASS 14.0	27-44-01-16		

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	67cf1078-beca-4687-860b-dc475a6ec24a

## Approvals

Approvals



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

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">DUXR.E316369</a> <a href="#">CC Link IE Field M12-X</a> <a href="#">PROFINET Manufacturer's Declaration</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">MAN IE GUIDE DE</a> <a href="#">MAN IE GUIDE EN</a> <a href="#">Manual</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">MB FREECONTACT EN</a> <a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a> <a href="#">PI PROFINET CABLING EN</a>



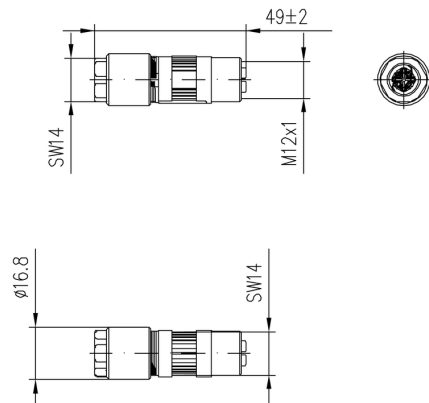
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# Drawings

## Dimensioned drawing





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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	SCREWTY SET -DM	Version	Packaging
Order No.	<a href="#">1920000000</a>	Cable gland tool for M8, M12 lines and connectors	Cardboard box
GTIN (EAN)	4032248436859		
Qty.	1 pc(s).		
Type	SCREWTY-M12 F-DM	Version	Packaging
Order No.	<a href="#">1900021000</a>	Cable gland tool for M12 connectors	Cardboard box
GTIN (EAN)	4032248436828		
Qty.	1 pc(s).		

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## General ordering data

Type	SCREWTY- M12 F	Version	Packaging
Order No.	<a href="#">1900020000</a>	Cable gland tool for M12 connectors	Cardboard box
GTIN (EAN)	4032248375851		
Qty.	1 pc(s).		
Type	SCREWTY SET	Version	Packaging
Order No.	<a href="#">1910000000</a>	Cable gland tool for M8, M12 lines and connectors	Cardboard box
GTIN (EAN)	4032248436842		
Qty.	1 pc(s).		