

## 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.6A / Class EA (ISO/IEC 11801 2010), IP67 plugged
Order No.	<a href="#">1516330000</a>
Type	IE-PS-M12X-S-FH
GTIN (EAN)	4050118323788
Qty.	1 items

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## Technical data

## Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E316369

## Dimensions and weights

Diameter	16.8 mm	Net weight	23 g
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## Temperatures

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

## 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

## 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	Brass	Conductor cross-section, max.	0.34 mm <sup>2</sup>
Conductor cross-section, min.	0.14 mm <sup>2</sup>	Nominal voltage	48 V
Nominal current	0.5 A	Protection degree	IP67 plugged
Plugging cycles	≥ 100	Pollution severity	2
Gender of contact	Female	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	Brass	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 <sup>2</sup>	Wire cross-section, solid, min.	0.34 mm <sup>2</sup>
Wire cross-section, solid, max.	0.32 mm <sup>2</sup>	Conductor connection cross-section, flexible	...0.32 mm <sup>2</sup>
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 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
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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 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		

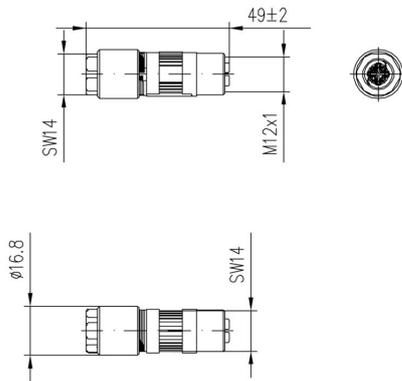
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**Drawings**

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

**Dimensioned drawing**



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**Accessories**

**Screwty® cable gland tool**



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	Version	
Order No.	<a href="#">1910000000</a>		Cable gland tool for M8, M12 lines and connectors
GTIN (EAN)	4032248436842		
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	SCREWTY SET -DM	Version	
Order No.	<a href="#">1920000000</a>		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.	<a href="#">1900020000</a>	Cable gland tool for M12 connectors	
GTIN (EAN)	4032248375851		
Qty.	1 ST		

## Screwty® 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.	<a href="#">1900021000</a>	Cable gland tool for M12 connectors	
GTIN (EAN)	4032248436828		
Qty.	1 ST		