

## IE-PCB-M12X-S-90

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

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



### General ordering data

Version	PCB plug-in connector, M12, Solder connection, Cat.6A / Class EA (ISO/IEC 11801 2010), IP67, when screwed in, Reflow compatible, 1-part
Order No.	<a href="#">2168220000</a>
Type	IE-PCB-M12X-S-90
GTIN (EAN)	4050118427233
Qty.	10 pc(s).

Creation date March 12, 2024 4:38:48 PM CET

Catalogue status 09.03.2024 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

Wall thickness, min.	1 mm	Wall thickness, max.	2.5 mm
Net weight	0.01 g		

**Temperatures**

Operating temperature	-40 °C...85 °C
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**Technical data of PCB plug-in connector**

Coding	X-coded	Number of poles	8
Rated voltage	48 V	Protection degree	IP67, when screwed in
Contact surface	Gold over nickel	Housing main material	CuZn
Connection thread	M12	Insulation strength	100 MΩ
Plugging cycles	≥ 100	Contact material	Cu-alloy

**General Info**

Number of poles	8	Connection 1	M12
Connection 2	Solder connection	Configuration	Reflow compatible
Housing main material	CuZn	Category	Cat.6A / Class EA (ISO/IEC 11801 2010)
Connection thread	M12	Contact material	Cu-alloy
Contact surface	Gold over nickel	Shielding material	CuSn
Shielding	360° all-round enclosure	Protection degree	IP67, when screwed in
Plugging cycles	≥ 100		

**Classifications**

ETIM 6.0	EC002638	ETIM 7.0	EC003568
ETIM 8.0	EC003568	ETIM 9.0	EC003568
ECLASS 9.0	27-44-03-09	ECLASS 9.1	27-44-03-09
ECLASS 10.0	27-44-03-09	ECLASS 11.0	27-44-01-10
ECLASS 12.0	27-44-01-10	ECLASS 13.0	27-44-01-10

**Environmental Product Compliance**

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

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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>
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>

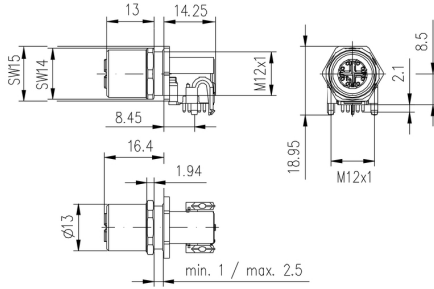
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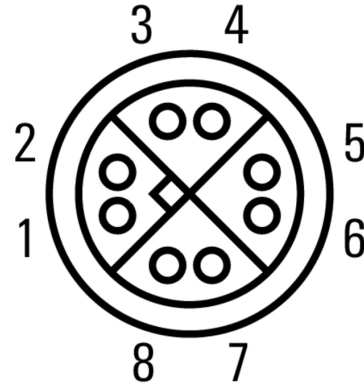
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**Drawings**

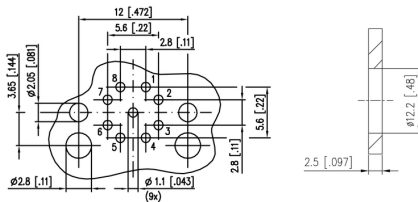
**Dimensioned drawing**



**Pinning**



**Drilling template**



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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- 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).		

**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).		