

**IE-PS-M12X-P-AWG22/27FH****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	Plugs 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="#">2007500000</a>
Type	IE-PS-M12X-P-AWG22/27FH
GTIN (EAN)	4050118392937
Qty.	1 pc(s).

## IE-PS-M12X-P-AWG22/27FH

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

Net weight	0.001 g
------------	---------

## Temperatures

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

## 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, tinned	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	50 V
Shield connection	Yes		

## General Info

Number of poles	8	Connection 1	M12
Connection 2	IDC	Housing main material	Zinc diecast
Insulation cross-section, min.	0.9 mm	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, tinned	Contact surface	Gold-plated
Connection diameter, solid	0.51...0.64 mm	Wire connection diameter, solid, min.	0.51 mm
Conductor connection cross-section, solid (AWG)	AWG 24/1...AWG 22/1	Wire connection diameter, solid, max.	0.64 mm
Connection diameter, flexible	0.46...0.76 mm	Wire cross-section, solid, min. (AWG)	AWG 24/1
Conductor connection cross-section, flexible (AWG)	AWG 27/7...AWG 22/7	Wire cross-section, solid, max. (AWG)	AWG 22/1
Wire connection diameter, flexible, min.	0.46 mm	Wire connection diameter, flexible, max.	0.76 mm
Wire cross-section, finely stranded, min. (AWG)	AWG 27/7	Wire cross-section, finely stranded, max. (AWG)	AWG 22/7
Conductor connection cross-section, extremely flexible	0.61...0.78 mm, Approval of the cable by Weidmüller necessary	Conductor connection diameter, very finely stranded, min.	0.61 mm
Conductor connection diameter, very finely stranded, max.	0.78 mm	Conductor connection cross-section, extremely flexible (AWG)	AWG 26...AWG 22, Approval of the cable by Weidmüller necessary
Conductor connection cross-section, very finely stranded, min. (AWG)	AWG 26	Conductor connection cross-section, very finely stranded, max. (AWG)	AWG 22
Note, very finely stranded line connection	Approval of the cable by Weidmüller necessary	Sheath diameter, min.	5.5 mm
Sheath diameter, max.	9 mm	Contact holder materials	PA
Shielding material	Nickel silver	Shielding	360° all-round enclosure
Protection degree	IP67 plugged	Plugging cycles	≥ 100

## Electrical properties

Dielectric strength, contact / contact	≥ 500 V DC	Dielectric strength, contact / shield	≥ 500 V DC
Insulation strength	100 MΩ	PoE / PoE+	conforming to IEEE 802.3at
Rated voltage	50 V	Volume resistance	<10 mΩ

## IE-PS-M12X-P-AWG22/27FH

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## General standards

Certificate no. (cULus)	E471884	Connector standard	IEC 61076-2-109
-------------------------	---------	--------------------	-----------------

## Standards

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

## 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

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

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E471884

## Downloads

Approval/Certificate/Document of Conformity	<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>

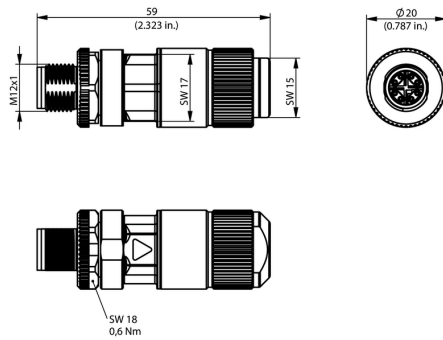
## IE-PS-M12X-P-AWG22/27FH

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

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

# Drawings

## Drawing



## IE-PS-M12X-P-AWG22/27FH

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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).		

## 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	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).		
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).		