Data sheet

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

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

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.6A / Class EA (ISO/IEC 11801 2010), IP67 plugged
Order No.	2007500000
Type	IE-PS-M12X-P-AWG22/27FH
GTIN (EAN)	4050118392937
Qty.	1 items

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Technical data

Approvals

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

Dimensions and weights

Net weight	0 g

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	Housing main material	Zinc diecast
Insulation resistance	100 MΩ	Category	Cat.6A / Class EA (ISO/ IEC 11801 2010)
Contact material	Brass, tinned	Nominal voltage	50 V
Protection degree	IP67 plugged	Plugging cycles	≥ 100
Gender of contact	Male	Shield connection	Yes, screwed

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.6A / Class EA (ISO/ IEC 11801 2010)	Connection thread	M12
Contact material	Brass, tinned	Contact surface	Gold-plated
Wire connection diameter, solid, min.	0.51 mm	Connection diameter, solid	0.51...0.64 mm
Wire connection diameter, solid, max.	0.64 mm	Conductor connection cross-section, solid (AWG)	AWG 24/1...AWG 22/1
Wire cross-section, solid, min. (AWG)	AWG 24/1	Connection diameter, flexible	0.46...0.76 mm
Wire cross-section, solid, max. (AWG)	AWG 22/1	Conductor connection cross-section, flexible (AWG)	AWG 27/7...AWG 22/7
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 diameter, very finely stranded, min.	0.61 mm	Conductor connection cross-section, extremely flexible	0.61...0.78 mm, Approval of the cable by Weidmüller necessary

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Technical data

Conductor connection diameter, very finely stranded, max.	0.78 mm	Conductor connection cross-section, very finely stranded, min. (AWG)	AWG 26
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, 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 / shield	≥ 500 V DC	Dielectric strength, contact / contact	≥ 500 V DC
Volume resistance	<10 mΩ	Insulation resistance	100 MΩ
Nominal voltage	50 V	PoE / PoE+	conforming to IEEE 802.3at

General standards

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

Standards

Connector standard	IEC 61076-2-109

Classifications

ETIM 6.0	EC002635	ETIM 7.0	EC002635
ETIM 8.0	EC002635	ETIM 9.0	EC002635
ETIM 10.0	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
ECLASS 15.0	27-44-01-16		

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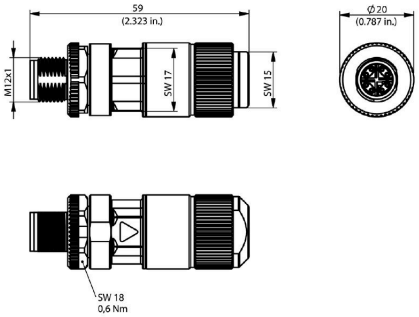
Drawings

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.	1910000000	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.	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	

Screwty® cable gland tool with torque function

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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	