

GIMOTA AG

Product Catalogue

GTM12 Series



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1 General information

1.1 GIMOTA AG

GIMOTA situated near Zurich Switzerland was founded in 1961 by Otto Schoch. The company has been amongst others specialized in supplying connectors for the use in railway applications. These are for example CIRCULAR CONNECTORS for power and data signal transmission or DATA CONNECTORS.

Continuing in-house developments concentrated on the same field of activities, particularly with regard to connectors for high-current and data transmission circuits for example the GIMOTA TRAC-Series, and EMI shielded connectors.

GIMOTA connectors are used worldwide in various railway vehicles for lots of different applications. For example with conventional and electronic control systems, with measuring devices of all kinds and within jumper cable applications.

GIMOTA supplies its products to most of the world's leading railway manufacturers and railway operators worldwide.

GIMOTA is known for its high flexibility. The company develops and manufactures connectors for specialized applications according to customer specifications and needs.



Even small batches are welcome to be realized.

GIMOTA takes all possible efforts to provide appropriate logistics solution, such as «just-in-time» deliveries based on an order contracts and forecasts, or maintaining minimum inventory levels specified with the customer.

GIMOTA is today one of the leading providers of industrial traction connectors, and is continuously expanding its market share due to solutions with close focus on customers demand.

2 GTM12 Series

2.1 Introduction

The industrially approved M12 connecting solutions are more and more considered on devices for the railway industry.

An often mentioned handicap is the contact application to the wires and strands. Usually soldering (with followed by overmolding or Insulation-displacement connections (IDC) for field assembling is provided and used.

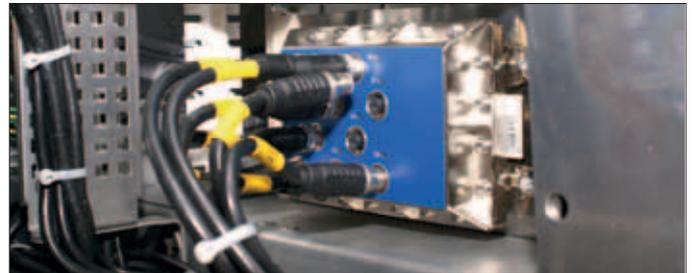
According to long term experiences crimped contact applications offer best possible performances regarding endurance under vibrations.

The weight factor of components is a further criterion which is more and more assessed for application engineering solutions and finally for the application decision.

As humidity and moisture have to be considered for inside applications the ingress protection (IP rating) of electrical and electronic devices is a major concern of the product evaluation.

Gimota AG consistently adjusted the common industrial M12 connector solution according to EN 61076-2-101 to the needs and demand of railway applications.

The GTM12 connector series by Gimota AG offers a variety of M12 cable plugs/receptacles and bulkheads which are also suitable for field assembling.



3 General technical data

3.1 Electrical data

All electric data are valid on sea level with an environment temperature of 20 °C. The mentioned temperature values are considered as limit temperatures.

		D coded
Service voltage	[V] DC	60
Operation current	[A]	4
Surge voltage	[kV]	2.5
Pollution degree ¹		3
Potential drop across contacts	[kV]	1.4
Potential drop between contacts and housing	[kV]	1.4
Data transfer speed	[Mbits/s]	10/100

Requirements acc.: IEC 60512, Test 4a at standard climate and mated plugs

¹ Only if mated and tightened with counter-plug/-receptacle

3.2 Thermal properties

	Contact support ¹	Contact carrier ¹
Material	Thermoplastic, GFR, grey	Thermoplastic, GFR, black
Service temperature	-25°C bis 85°C	-25°C bis 85°C
Fire resistance class UL94	V0	V0
Fire characteristic NF F 16-101/102	I2/F2	I2/F2
Fire characteristic DIN 5510	S4/SR2/ST2	S4/SR2/ST2

¹ halogen free, flame retarded

Grip sleeve made from TPE, halogen free

3.3 Mechanical properties

		D coded
Number of contacts		4
Strand/wire adaptation		Crimp version
Wire section	mm ²	4 x 0,34 (AWG 22) - 4 x 0.5 (AWG 20)
Connecting life cycle of contacts (gold) ¹	mating cycles	> 200
Mating force ²	[N]	max. 10
Separating force ²	[N]	max. 15
Insulating resistance	[Ω]	≥ 10 ⁸
Contact material		0,5 μm Au over Cu-alloy

¹ Requirements acc. IEC 60512, Test 9a

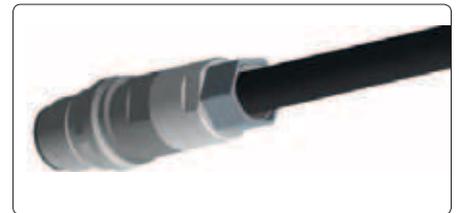
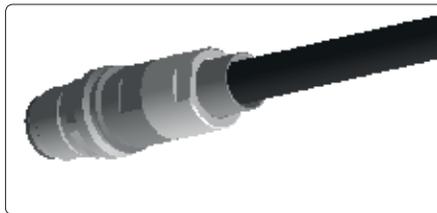
² Requirements acc. IEC 60512, Test 13b

3.4 Mechanical properties - Housing

		D coded
Housing		brass, nickel plated
Cable strain relief		Screening sleeve
EMI screening at 360°		Screening sleeve
Cable diameter	[mm]	6.5 / 6.6 / 7.2 / 8.3
Ingress protection (IEC EN 60529) fully tightened		up to IP67
Recommended tightening torque for M12 mating thread	[Nm]	1

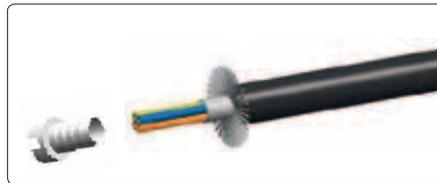
3.5 Compressed cable strain relief

The cable is fixed and strain relieved to the connector by compressing the screening sleeve at the coupling nut onto the cable insulation and the supporting crimp flange bushing. The coupling nut and the screen sleeve are available in various diameters to cover common cable sizes. For a qualified compression of the screen sleeve the GIMOTA tool GIW30L with corresponding dies GIM30LGTM12/x.x is required.



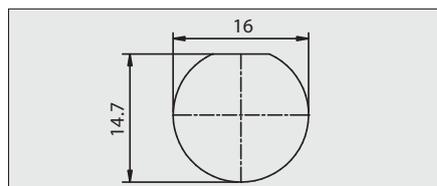
3.6 360° EMI screening

The crimp flange bushing has to be pushed over the wires and screening foil and underneath the screening braid and the outer cable insulation. Assembled with the connector housing an optimal 360° screen contact is ensured. The handy GIMOTA Push-in Tool facilitates the application of the crimp flange bushing to the correct position on commercial Ethernet and Data cables.

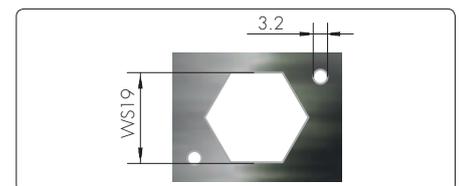


3.7 Panel cut-out for rear panel bulk-head receptacle

For round bore holes a guard plate like GTM12-VSB1-1 for positioning and fixation is required. This plate can selectively be screwed, riveted or glued to the panel.



Panel cut-out



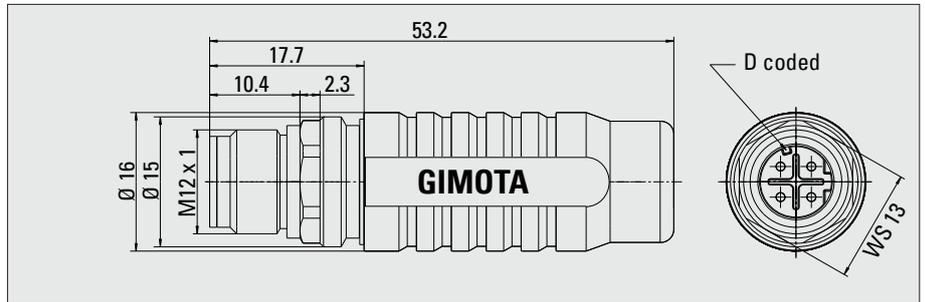
GTM12-VSB1-1

4 GTM12 connector series

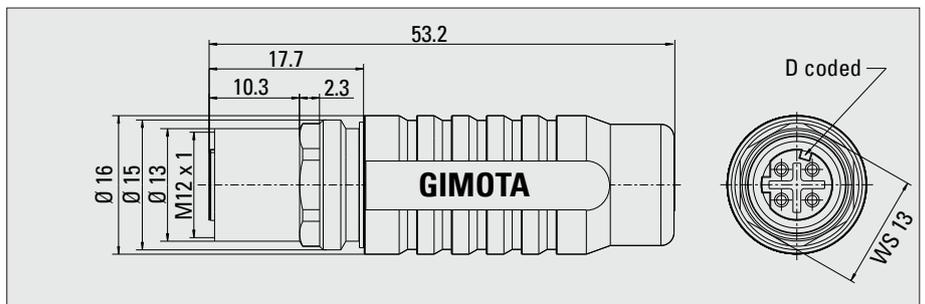
4.1 GTM12 connectors D coded, for field assembling

GTM12 connectors can be assembled in the field using the appropriate Push in and Crimping/Press Tools and dies. These connectors are designed with an extra slim body and provide a robust and seal tight connection.

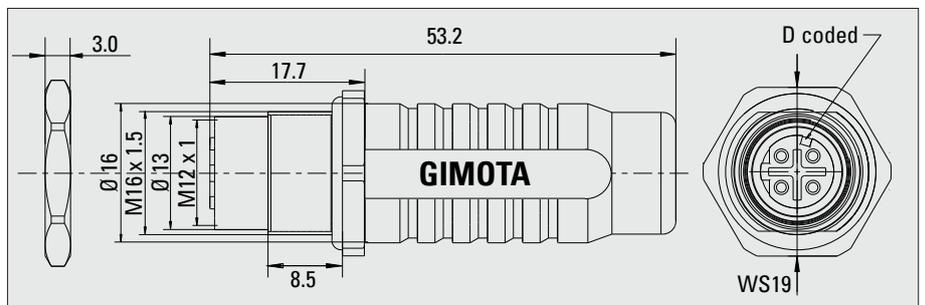
Cable plug M12 D coded (GTM12-D-MP-xx)



Cable receptacle M12 D coded (GTM12-D-FS-xx)



Rear panel bulkhead cable receptacle M12 D coded (GTM12-D-BR-FS-xx)

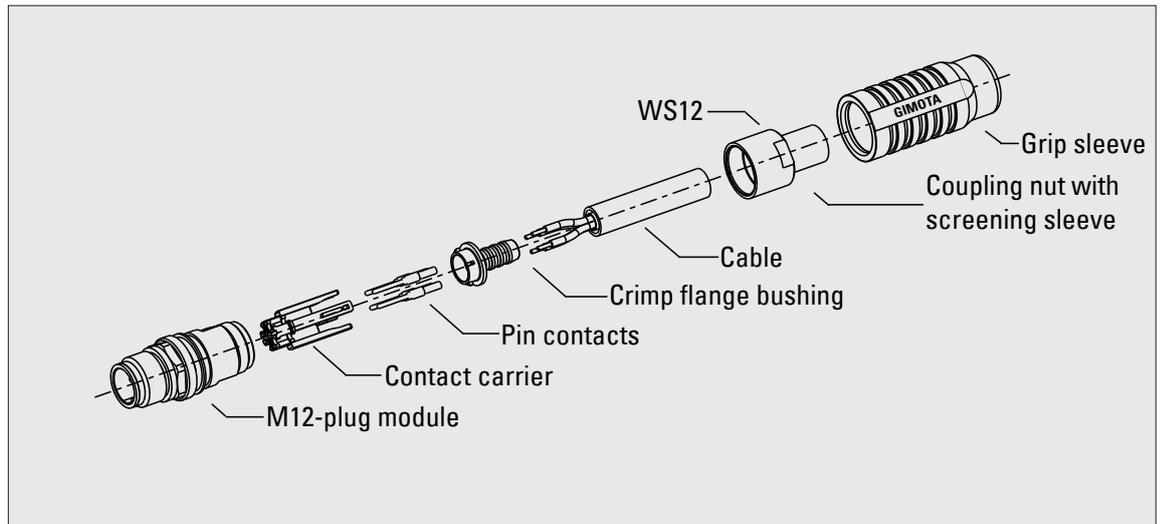


Item number	Connector type	Contact type	Cable-	inner- bushing	Wire section
GTM12-D-MP-6.5	Cable Plug	Pin	6.5 +/-0.3	4.50	0.34 mm ² (AWG22)
GTM12-D-MP-6.6	Cable Plug	Pin	6.6 +/-0.3	4.10	0.34 mm ² (AWG22)
GTM12-D-MP-7.2	Cable Plug	Pin	7.2 +/-0.3	4.85	0.34 mm ² (AWG22)
GTM12-D-MP-8.3	Cable Plug	Pin	8.3 +/-0.3	5.75	0.50 mm ² (AWG20)
GTM12-D-FS-6.5	Cable Receptacle	Socket	6.5 +/-0.3	4.50	0.34 mm ² (AWG22)
GTM12-D-FS-6.6	Cable Receptacle	Socket	6.6 +/-0.3	4.10	0.34 mm ² (AWG22)
GTM12-D-FS-7.2	Cable Receptacle	Socket	7.2 +/-0.3	4.85	0.34 mm ² (AWG22)
GTM12-D-FS-8.3	Cable Receptacle	Socket	8.3 +/-0.3	5.75	0.50 mm ² (AWG20)
GTM12-D-BR-FS-6.5	Bulkhead recptacle	Socket	6.5 +/-0.3	4.50	0.34 mm ² (AWG22)
GTM12-D-BR-FS-6.6	Bulkhead recptacle	Socket	6.6 +/-0.3	4.10	0.34 mm ² (AWG22)
GTM12-D-BR-FS-7.2	Bulkhead recptacle	Socket	7.2 +/-0.3	4.85	0.34 mm ² (AWG22)
GTM12-D-BR-FS-8.3	Bulkhead recptacle	Socket	8.3 +/-0.3	5.75	0.50 mm ² (AWG20)

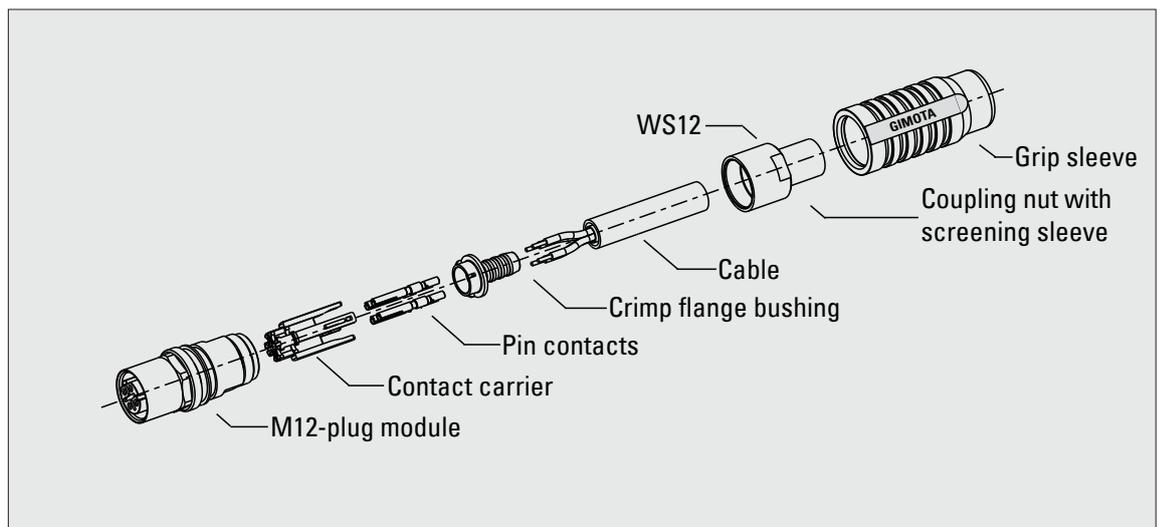
All connectors are supplied including contacts. Components as well as other connector configurations are available upon request.

4.2 Assembly of GTM12 connectors D coded, for field assembling

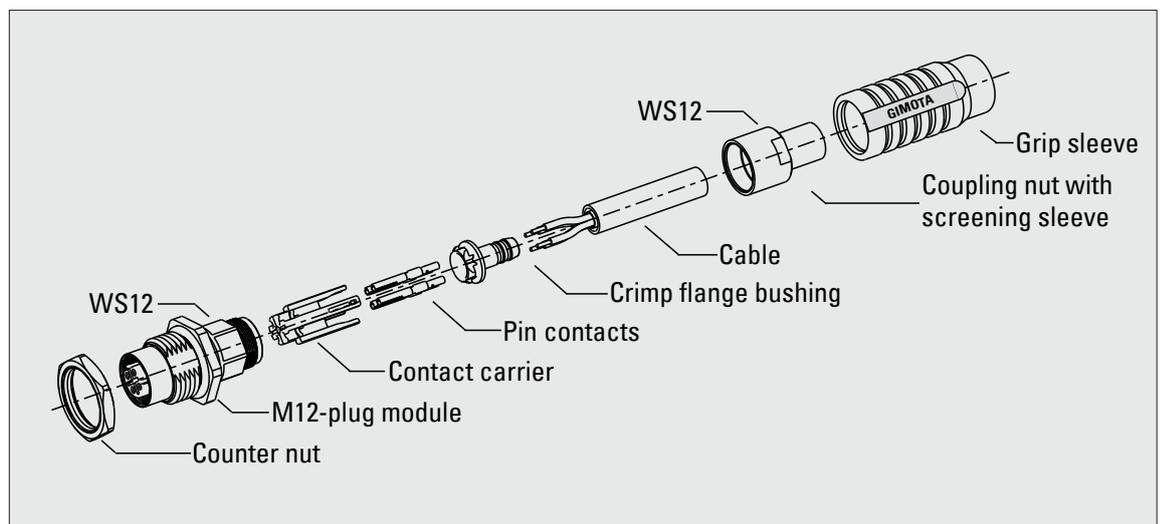
Assembly Cable Plug M12 D coded



Assembly Cable Receptacle M12 D coded



Assembly Bulk-Head Receptacle M12 D coded



5 Accessories

5.1 Contacts- crimpable, machined pin and socket contacts

GTM12 series connectors are supplied with adequate contacts. Additional loose contacts are available as following:

Material: Cu-alloy
Surface: 0,5 µm gold

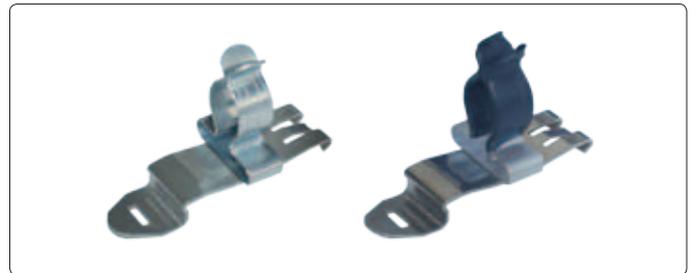


Item number	Contact type	For connector coding	Wire section [mm ²]	Reference cable-Ø [mm ²]	PU pcs
GTM12PC22AU.20	Pin	D	0.34 (AWG22)	6.5 - 7.2	20
GTM12PC22AU.100	Pin	D	0.34 (AWG22)	6.5 - 7.2	100
GTM12PC20AU.20	Pin	D	0.50 (AWG20)	8.3	20
GTM12PC20AU.100	Pin	D	0.50 (AWG20)	8.3	100
GTM12SC22AU.20	Socket	D	0.34 (AWG22)	6.5 - 7.2	20
GTM12SC22AU.100	Socket	D	0.34 (AWG22)	6.5 - 7.2	100
GTM12SC20AU.20	Socket	D	0.50 (AWG20)	8.3	20
GTM12SC20AU.100	Socket	D	0.50 (AWG20)	8.3	100

5.2 CICE/CIC mounting clip - for standard C-rails (EMI/insulated)

Mounting clips type CICE/CIC allow easy fixing of GTM12 cable connections with or without grounding of the shield potential. The clips can be mounted onto standard 35 mm C-rails according EN 50022 (caprail). To avoid potential drop of the shield to ground the clips are available with insulated clamps.

The mounting clips allow an easy and fast fixation of the GTM12 connectors. For increased mounting safety a standard cable tie can be applied at the brackets end.



Item number	clamping range	EMI contact	suitable with
CICE35/12-16	12-16mm	yes	GTM12
CIC35/12-16	12-16mm	no (insulated)	GTM12

Mounting clip with cable tie: add «K» behind the item number (Set) Example: CICE35/12-16K

Application:

The CICE/CIC Mounting Clip can be directly clicked onto the mounting C-rail. The data cable connected with the GTM12 connector system can be easily pushed into the mounting clip. For increased fixation safety the brackets can be additionally tightened together with a cable tie.



6 Tools

6.1 Sheathing stripper for Ethernet and Data Cables GIW-AEP

Convenient tool for 2-level strip-off sheathing, including blade cassette and cable stop. This hand tool allows a quick and proper processing of data cables.

The cutting blades can be individually adjusted regarding the cutting depth. Up to 2-levels stripping is possible in one step. Applicable for cable diameters from 2.5 mm to 8.3 mm.

Easy change from one to an other cutting range ensured by exchanging the applied blade cassette (available on request). The blade cassettes can be used on both sides that prolong the life cycle.

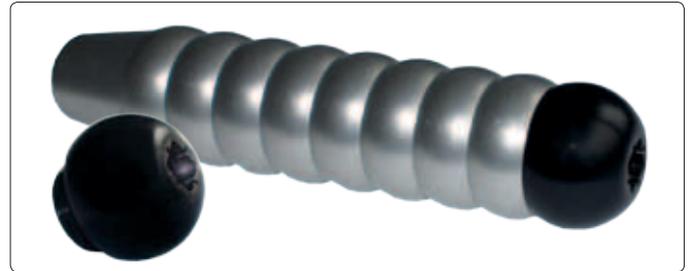


Item number Complete tool	Dimensions	Weight	Cable Ø	Item number Blade cassettes	Colour cassette
GIW-AEPM	90 x 25 x 38	40 g	6.5 - 8.3	GIW-AEPM-CRE02	red

6.2 Push-in tool for Crimp-Flange Bushing GIW-WML0-1

Push-in tool to simplify the application of the crimp flange bushing of the GTM12 connectors underneath the screening braid of the Ethernet or Data cable.

The crimp flange bushing is inserted into the cavity at the end of the black head and finally pushed easily onto the cable end. If the cable insulation sheath is rather stiff a heat gun or similar can be used to slightly warm up the insulation layer. This can reduce the push-in force accordingly.



Item number Complete tool	Dimensions	Material	Weight	Item number Tool head only
GIW-WML0-1	L = 127 Ø = 28	Aluminium	125 g	GIW-EWCT

6.3 Wire stripper for strands and wires (AWG20-30) GIW-ACK

Easy-to-use wire stripping tool for a quick and proper preparation of strands and wires. The single wires can be applied to a defined length and finally stripped accordingly.

- Stripping length of up to 25 mm is possible
- The wire size can easily be adjusted.
- Specially hardened blades ensure long-life and usage of the stripping device.



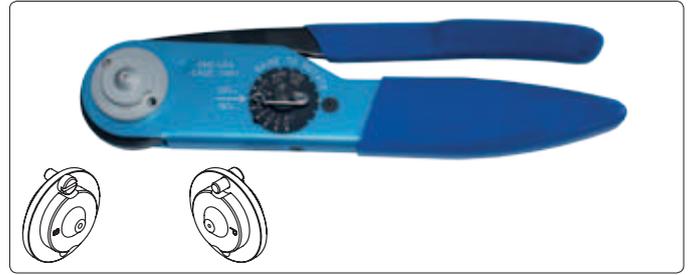
Item number	Dimensions	Weight	Use with	wire sections [mm ²]
GIW-ACK	98 x 45 x 21	30 g	wires / strands	0.05 – 0.5 (AWG30 – AWG20)

6.4 Crimping tool GIW-FT8 for machined contacts

Universal 4 point crimping tool, suitable with machined contacts for GIMOTA GTM12 connectors.

The use of the corresponding positioning adapter GIW-FT8-P1 allows a correct and easy crimping application of pin and socket contacts (turn-over of the positioning adaptor).

The Gimota positioning adaptor ensures easy and appropriate positioning of the contact with the applied wire inside the tool.



Item number Crimping Tool	Dimensions	Weight	Use with	Item number Positioning adaptor
GIW-FT8 / DMC AF8	255 x 65 x 30	550 g	GTM12 Contacts	GIW-FT8-P1

6.5 Press tool GIM30L with dies for crimping sleeve compression

Mechanical press tool with exchangeable dies for compression of various screening sleeve sizes of the GTM12 connector series. A standard allen key allow an easy exchange of different compression dies.

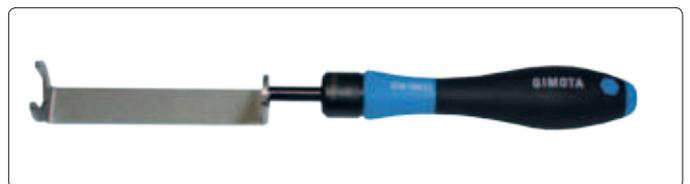
One-way ratchet action ensures complete, precise pressing and releases automatically on completion of the compression cycle.



Item number Press tool	Dimensions	Weight	Item number Dies	Related Screening sleeve
GIM30L	270 x 80 x 25	700 g	GIM30LGTM12/6.6	6.5 / 6.6
			GIM30LGTM12/7.2	7.2
			GIM30LGTM12/8.3	8.3

6.6 Tightening tool GIW-DM12 for GTM12 connectors

Tightening tool to ensures the required max. tightening torque for mating the GTM12 connectors. The included torque limiting devices ensure the correct tightening forces of 1 Nm. The slim design of the tool head facilitates the use in connecting areas with limited access space.



Item number	Dimensions	Weight	Torque	Use with
GIW-DM12	L = 215	90 g	1 Nm	M12 Connectors

6.7 Tool Box GIW-BOX-GTM12 for M12 connector assembling

A Convenient Toolbox for proper storage of the M12 Assembling tools. The tools are not included with the item number.

Item number	Dimensions	Weight
GIW-BOX-GTM12	330 x 260 x 90	550 g



7 GTM12 assembling

7.1 Assembling instructions

Push grip sleeve and corresponding mounting unit (coupling nut with screening sleeve) onto the cable.



Strip off the cable insulation sheath by 16mm. Cut the shielding braid back to 6mm. It is recommended to use of the GIMOTA Sheathing stripper **GIW-AEPM**.



Fold back the shielding braid onto the insulation. Make sure that the aluminum foil layer is not pushed back.

Insert the crimp flange bushing into the cavity at the end of the black head **GIW-EWCT**.



Fully press the crimp flange bushing between the braid and aluminum foil underneath the cable insulation. Slight warming of the insulation sheath can ease the application of the crimp flange bushing to the cable.

Cut of overlaying wires from the shielding braid with a nipper or a knife flush with the crimp flange.

Strip wires at $4^{+0.5}$ mm. The use of the GIMOTA wire stripper **GIW-ACK** is recommended.

Push contacts onto stripped wire end and crimp with adequate crimping tool. Ensure visibility of the wire through the inspection hole at contact bucket side. The use of the crimping tool **GIW-FT8** with the GIMOTA positioning adaptor **GIW-FT8-P1** is recommended.

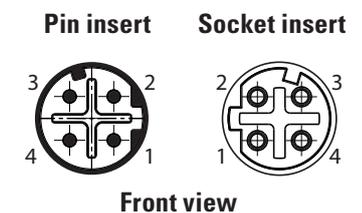


Arrange the contacts according color keying on contact carrier (Ethernet standard) and apply the contact carrier to the hooks at the flange of the installed crimp flange bushing. Correct locking can be checked by a slight pull on the contact carrier. Now click the contacts from side into the appropriate cavity of the contact carrier.



Fully push the pre-assembled Ethernet cable with contact carrier into the M12 plug/receptacle module. Consider correct key sign (notch) for correct positioning. Screw sleeve nut for screen adaptation onto the plug/receptacle module.

Contact	Arangement	PNO - PROFinet	ODVA - ETHERNET/IP
Contact 1	TD+	yellow	white-orange
Contact 2	RD+	white	white-green
Contact 3	TD-	orange	orange
Contact 4	RD-	blue	green



The applicable tightening torque is approx. 1.5 to 2.0 Nm (max. 3.0 Nm) Use an applicable 12mm flat wrench for tightening.

Apply the crimping sleeve at the cable exit to the compression tool die. The use of the GIMOTA Press tool **GIW30L** with corresponding die **GIM30LGTM12/x.x** is recommended.



Finally push the grip sleeve firmly onto the connector assembly. The applicable tightening torque with the mating part is approx. 0,8 to 1,0 Nm (max. 2,0 Nm) by using a 13mm flat wrench. The GIMOTA tightening tool **GIW-DM12** is recommended.



8 Product safety and Sales conditions

8.1 Product safety

Information and advice given in the following is applicable in connection with the use of our products and data contained in our data sheets and catalogues. Failure to comply with the advices can put individuals and equipment to severe risk.

1. Materials

Electrical plug-type connectors contain no substances that could be dangerous in normal operation. The connectors consist of conducting and non-conducting materials.

M12 connectors:

The insulators are generally made of a fiber glass-reinforced plastic. The housings are made of nickel plated brass.

2. Hazards

When plug-type connectors are correctly wired and are used and handled with due regard to the given parameters, there will be generally no risk.

Incorrect wiring or assembly of connectors can lead to electric shock, burns or fire. The same applies to careless handling of metal tools or conductive fluids, as well as to the use of defective parts, e.g. damaged during transport or storage.

Live circuits may not be made or broken by means of plug-in connectors. This can lead to ionization and arcing, causing electric shock, burns or fire. Such manipulations can also cause electronic circuits to be destroyed.

Only contacts in correctly assembled plug-in connectors may be energized.

Abnormal rises in resistance in a plug-in connector can cause it to become overheated. An increase in resistance can be caused by cracked, broken or deformed contacts or by broken wires in the conductor strand, as well as by badly made crimps due to the wrong or defective crimping tool being used, by poor solder joints or by screw connections not being properly tightened. Oxide films and the presence of contamination on the contacts or crimps can also lead to rises in resistance and therefore to local overheating. Overheating can further be caused by the formation of a creeping paths or short circuits in the plug due to:

- water entering through badly assembled connectors or due to the capillary effect along the conductor wires;
- contamination of the insulator or residues left over from processing (e.g. bits of wire) in the connector.

Exceeding the continuous currents given in our documentation is not permitted, as this can cause overheating of the connector.

Overheating of a plug-type connector causes the insulator to be destroyed. This can result in spurious signals; also, there is the danger of electric shock or of fire, with toxic gases formed in combination with other materials. Since overheating is not necessarily visually apparent, there is a risk of burns being caused if overheated parts are touched.

3. Handling

Components of electrical plug-type connectors must be carefully handled during transport, storage and use to avoid damage.

Plug-type connectors can be damaged in transit to the customer. Such damage can be a source of danger. These products should therefore be checked before installation or use, and damaged ones removed.

4. Disposal and scrapping of waste

Dangerous or even toxic gases can be formed when certain materials are burned. Such materials must therefore be disposed of in the proper manner.

5. Application

Plug-type connectors with accessible contacts should not be used on the supply side of the electric circuit.

Touching the exposed contacts of an unconnected electrical connector can result in an electric shock. Voltages above 30 V AC or 42.5 V DC are generally dangerous. It must be ensured that such voltages cannot under any circumstances reach the accessible metal parts of the connector housing. Before energizing with voltage, plug-type connectors and the wiring should be checked. It must be ensured that metal parts and insulators are not damaged, and that no soldering jumper, loose wire strands, conductive fluids or other conducting materials can form an electrical bond. The circuit should be checked for insulation resistance and electrical continuity. It is essential that the correct working tools are used, in accordance with our catalogues and data sheets.

Only qualified personnel should be allowed to wire, assemble or modify electrical connectors.

The pertinent national regulations should be referred to in order to determine the permitted operating voltage.

6. Important general note

6.1 Product design

GIMOTA AG is committed to a policy of continuous improvement and further development of its products. Because of this, our products may differ from the descriptions, technical data and figures in this catalogue and in the data sheets.

Unless otherwise stated, all dimensions in this catalogue are approximate values in mm.

6.2 Insulation clearances, ambient conditions

The permitted operating voltages depend on the specific application and on the applicable national safety regulations. For this reason, the clearances and creeping distances are given as reference values. Attention should therefore be given to reductions in the clearances and creeping distances due to the circuit board and/or wiring.

All voltage data are valid at sea level and a temperature of 20°C. The given temperatures are temperature limits

6.3 Fabrication instructions

Our detailed assembling instructions should be referred to when processing work is carried out.

6.4 Final Provisions

These Product Safety have been released 2011. This version is a translation. Mandatory is the current German version.

8.2 General Sales Conditions

The General Sales Conditions contained herein are binding when declared as being applicable in the offer or in the order confirmation. Deviating or additional provisions and conditions, in particular general purchasing conditions of the buyer, are valid only when these have been expressly agreed upon in writing.

Offers

Our offers are binding for a period of 3 months unless another term of validity is given in the respective offer.

Prices, packaging and conditions of payment

Our prices are in Swiss francs for delivery ex works. Packaging and the Swiss value-added tax (VAT) are not included in the price. Conditions of payment: 30 days net.

Transfer of gain and risk, shipment and insurance

Gain and risk pass to the purchaser with dispatch of the consignment ex works.

Shipment takes place with invoice and at the consignee's risk. Transport insurance is taken out by us only at the written request of the consignee. The cost of the insurance is borne by the consignee.

Delivery periods

Delivery periods given in our offers begin with the receipt of the order. The delivery deadline is deemed to have been adhered to when, on its expiry, the consignment is in the factory prepared and ready for shipment. We make every effort to adhere to delivery dates given in the order confirmations. However, they are non-binding, and overruns cannot be taken as cause for claims for damages or for cancellations.

Documents

Our catalogues, drawings, sketches, etc. are our intellectual property, and may not be copied or given to third parties without our written authority.

Testing and Acceptance of the Consignment

Inasmuch as they are standard practice, GIMOTA INC undertakes to carry out tests on the consignments. If more extensive tests are requested by the purchaser, these must be agreed on in writing and the costs must be borne by the purchaser (e.g. acceptance tests, factory certificates, etc.)

The purchaser has to inspect/test the consignment on receipt and report in writing within 10 days any defects that are found. Failure to do so will be considered as approval of the consignment.

Parts which are found to be unusable due to flaws in the material or because of defects caused during production will be either replaced or repaired, as we consider necessary.

Property Rights

The delivered goods remain our property until the full purchase sum has been paid. The purchaser gives assurance that he will participate in such measures as are required to protect our property.

Cancellation

The cancellation of contracts requires our express and written agreement. Complaints regarding a consignment do not entitle the purchaser to cancel the remainder of an order. We are authorized to withdraw from delivery obligations should the financial situation of the purchaser markedly deteriorate or show itself as being other than that presented to us.

Warranty

GIMOTA INC is obligated to replace or repair, as we consider necessary, all parts that are defective or unusable as a result of material flaws or of errors during design or manufacture as soon as possible and at the written request of the purchaser for the duration of the warranty period.

The warranty period is 12 months after receipt of the consignment. Excluded from the warranty is damage due to incorrect storage, natural wear, faulty processing and disregard of regulations, etc.

Exclusion of Other Liabilities

Possible claims by the purchaser are covered in full in the „General Sales Conditions“. All claims not expressly mentioned for damages, reduction, cancellation of or withdrawal from the contract are excluded.

Jurisdiction

The place of jurisdiction is Zurich, Switzerland. The legal relationship is answerable to substantive Swiss law. In the event of the purchaser not having his domicile in Switzerland, the United Nations agreement on contracts concerning the international purchasing of merchandise (Wiener Kaufrecht) of 11.4. 1980 shall apply.

Final Provisions:

These General Sales Conditions have been modified for the last time in 2006. This version is a translation. Mandatory is the current German version.



GIMOTA AG
Chrummacherstrasse 3
CH-8954 Geroldswil
Tel. +41 44 749 30 10
Fax +41 44 749 30 15
info@gimota.ch
www.gimota.ch