

**GIMOTA AG**

**Assembly Instructions**

**GTM12 Series**

2015



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This Assembly instruction replaces all previous instructions.

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# 1 Installation Instructions GTM12 / GTB12

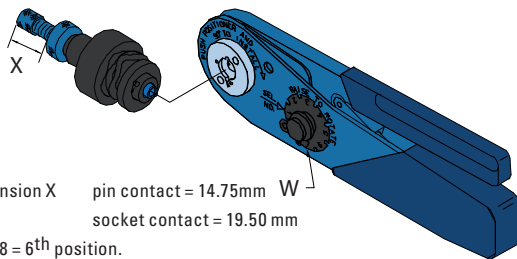
## 1.1 Assembling instruction GTM12- / GTB12-4 pole

Push the coupling nut (1), cable gland (2) and the screen contact spring (3) onto the cable. **[Figure a]**

Strip off the cable insulation sheath by 24 mm. Cut the metal shielding braid for 10 - 15 mm. **[Figure b]**

Strip the wires to a length of 4.5 - 5.0 mm. The use of the GIMOTA wire stripper GIW ACK is recommended. **[Figure c]**

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. **[Figure d]** The use of the crimping tool GIW-AFM8 with the GIMOTA positioning adaptor GIW-AFM8-SK2/2 is recommended.



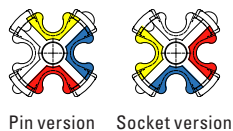
Positioning adaptor dimension X

pin contact = 14.75mm  
socket contact = 19.50 mm

Selector W on GIW-AFM8 = 6<sup>th</sup> position.

Push adapter (4) over the cable. **[Figure e]**

Arrange the contacts according to the color coding as on the table shown below into the contact carrier (5) (Ethernet-standard). **[Figure f] and the table below**



### GTM12-D-4-MP / GTM12-D-4-FS / GTB12-D-4-MP

Contact	occupancy	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

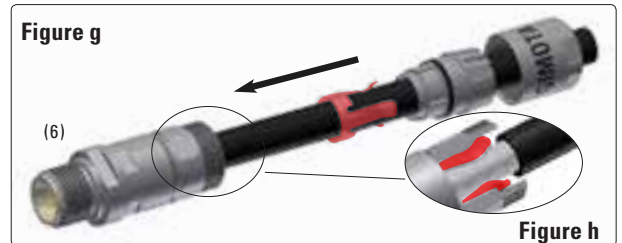
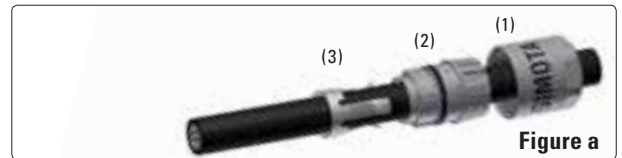
Insert the pre-assembled ethernet cable with the contact carrier - in compliance with the coding check mark (notch) - fully into the M12-front-module (6) and screw it on the adapter (\*). **[Figure g]**

Slide the screen contact spring on the cable shield up to the stop in the adapter. It is important to make sure that the feet of the screen contact spring standing firmly on the braided shield. **[Figure h]**

Fully push the cable gland into the adapter, so that the feet of the screen contact spring come to lie under the cable gland and firmly press on the braided shield.

Close the M12-connector permanently, using two suitable 14 mm spanner to screw GIW DM12-MS14 the coupling nut to the adapter (\*).

(\*) applicable tightening torque is approx. 1.5 to 2.0Nm (max. 3.0Nm)



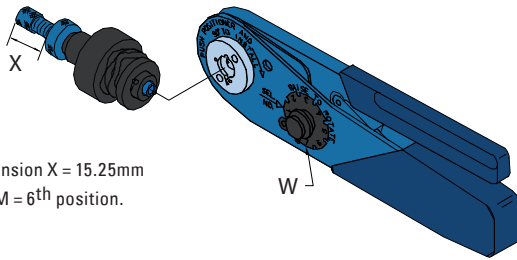
## 1.2 Assembling instruction GTM12-8 pole

Push the coupling nut (1), cable gland (2) and the screen contact spring (3) onto the cable. **[Figure a]**

Strip off the cable insulation sheath by 24 mm. Cut the metal shielding braid for 10 - 15 mm. **[Figure b]**

Strip the wires to a length of 6.0 - 6.5 mm. The use of the GIMOTA wire stripper GIW ACK is recommended. **[Figure c]**

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-AF8M with the GIMOTA positioning adaptor GIW-AF8M-SK2/2 is recommended. **[Figure d]**



Positioning adaptor dimension X = 15.25mm  
Selector W on GIW-AF8M = 6<sup>th</sup> position.

Push adapter (4) over the cable. **[Figure e]**

Arrange the contacts according to the color coding as on the table shown below into the contact carrier (Ethernet-standard). **[Figure f] and the table below**



Pin version, front view

### GTM12-A-8-MP

Contact	Wire colors acc. to TIA 568B	Contact	Wire colors acc. to TIA 568B
Contact 1	blue/white	Contact 5	green/white
Contact 2	brown/white	Contact 6	orange/white
Contact 3	brown	Contact 7	blue
Contact 4	orange	Contact 8	green

Insert the pre-assembled ethernet cable with the contact carrier - in compliance with the coding check mark (notch) - fully into the M12-front-module (5) and screw it on the adapter (\*). **[Figure g]**

Slide the screen contact spring on the cable shield up to the stop in the adapter. It is important to make sure that the feet of the screen contact spring standing firmly on the braided shield. **[Figure h]**

Fully push the cable gland into the adapter, so that the feet of the screen contact spring come to lie under the cable gland and firmly press on the braided shield.

Close the M12-connector permanently, using two suitable 14 mm spanner to screw the coupling nut to the adapter (\*).

(\*) applicable tightening torque is approx. 1.5 to 2.0Nm (max. 3.0Nm)



Figure a



Figure b



Figure c



Figure d



Figure e



Figure f

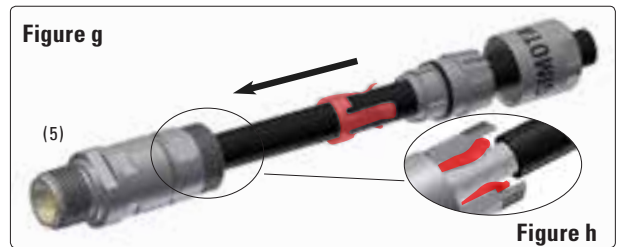


Figure g

Figure h



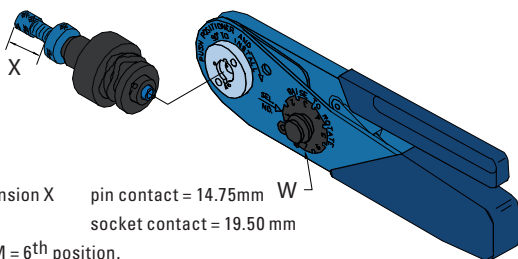
### 1.3 Assembling instruction GTM12- / GTB12-4 pole, 100°

Push the coupling nut (1), cable gland (2) and the screen contact spring (3) onto the cable. **[Figure a]**

Strip off the cable insulation sheath by 38 mm. Cut the metal shielding braid for 20 mm. **[Figure b]**

Push the 100° angle adapter over the cable. Strip the wires to a length of 4.5 - 5.0 mm. The use of the GIMOTA wire stripper GIW ACK is recommended. **[Figure c]**

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-AF8M with the GIMOTA positioning adaptor GIW-AF8M-SK2/2 is recommended. **[Figure d]**

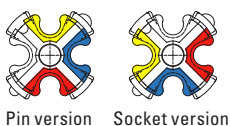


Positioning adaptor dimension X

pin contact = 14.75mm  
socket contact = 19.50 mm

Selector W on GIW-AF8M = 6<sup>th</sup> position.

Arrange the contacts according to the color coding as on the table shown below into the contact carrier (Ethernet-standard). **[Figure f] and the table below**



Pin version      Socket version

#### GTM12-D-4-MP-100 / GTM12-D-4-FS-100 / GTB12-D-4-MP-100

Contact	occupancy	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

Insert the pre-assembled Ethernet cable with the contact carrier - in compliance with the coding check mark (notch) completely into the M12 module (5). Screw the M12 module on the adapter with a spanner (max. 2.5mm thickness) SW14. (\*) The use of the GIMOTA spanner GIW DM12-MS14 is recommended. **[Figure f]**

Slide the screen contact spring (3) on the cable shield up to the stop in the adapter. It is important to make sure that the feet of the screen contact spring standing firmly on the braided shield. **[Figure g]**

Fully push the cable gland (2) into the adapter, so that the feet of the screen contact spring come to lie under the cable gland and firmly press on the braided shield.

Close the M12-connector permanently, using two suitable 14 mm spanner to screw GIW DM12-MS14 (1) the coupling nut to the adapter (\*).

(\*) applicable tightening torque is approx. 1.5 to 2.0Nm (max. 3.0Nm)



Figure a



Figure b



Figure c



Figure d



Figure e

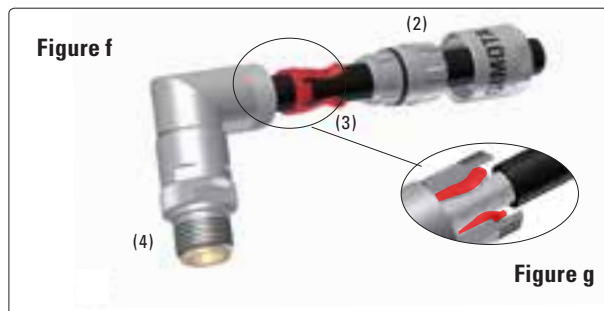


Figure f

Figure g



Figure h

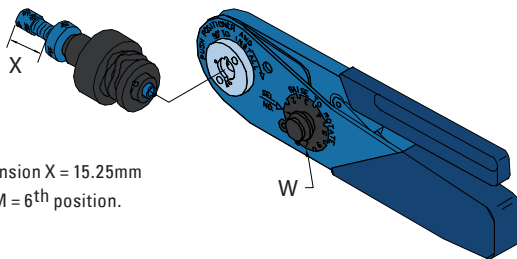
## 1.4 Assembling instruction GTM12-8 pole, 100°

Push the coupling nut (1), cable gland (2) and the screen contact spring (3) onto the cable. **[Figure a]**

Strip off the cable insulation sheath by 40 mm. Cut the metal shielding braid for 20 mm. **[Figure b]**

Push the 100° angle adapter over the cable. Strip the wires to a length of 6.0 - 6.5 mm. The use of the GIMOTA wire stripper GIW ACK is recommended. **[Figure c]**

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-AF8M with the GIMOTA positioning adaptor GIW-AF8M-SK2/2 is recommended. **[Figure d]**



Positioning adaptor dimension X = 15.25mm  
Selector W on GIW-AF8M = 6<sup>th</sup> position.

Arrange the contacts according to the color coding as on the table shown below into the contact carrier (Ethernet-standard). **[Figure f]** and the table below



Pin version, front view

### GTM12-A-8-MP-100

Contact	Wire colors acc. to TIA 568B	Kontakt	Wire colors acc. to TIA 568B
Contact 1	blue/white	Contact 5	green/white
Contact 2	brown/white	Contact 6	orange/white
Contact 3	brown	Contact 7	blue
Contact 4	orange	Contact 8	green

Insert the pre-assembled Ethernet cable with the contact carrier - in compliance with the coding check mark (notch) completely into the M12 module (5). Screw the M12 module on the adapter with a spanner (max. 2.5mm thickness) SW14. (\*) The use of the GIMOTA spanner GIW DM12-MS14 is recommended. **[Figure f]**

Slide the screen contact spring (3) on the cable shield up to the stop in the adapter. It is important to make sure that the feet of the screen contact spring standing firmly on the braided shield. **[Figure g]**

Fully push the cable gland (2) into the adapter, so that the feet of the screen contact spring come to lie under the cable gland and firmly press on the braided shield.

Close the M12-connector permanently, using two suitable 14 mm spanner to screw (1) the coupling nut to the adapter (\*).

(\*) applicable tightening torque is approx. 1.5 to 2.0Nm (max. 3.0Nm)



Figure a



Figure b



Figure c



Figure d



Figure e

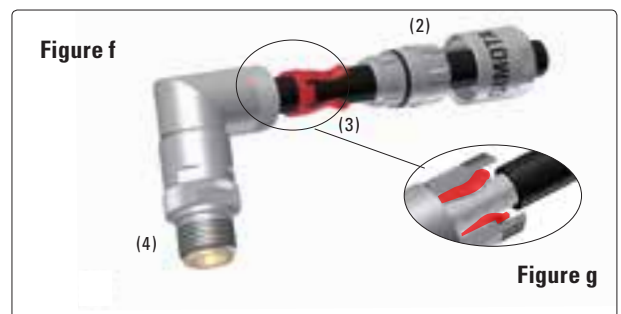


Figure f

Figure g



Figure h



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