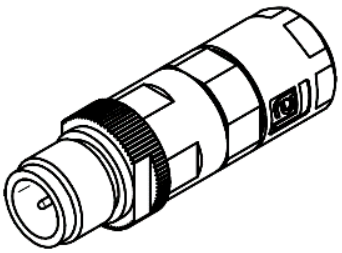
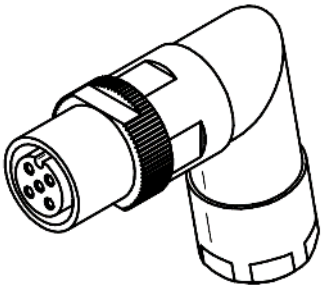
Assembly Instructions
RM12C Series





Listed products:

Product no.	Description
935092001	RM12C-MSSV4A
935092002	RM12C-FSSV4A
935092003	RM12C-MSSV5A
935092004	RM12C-FSSV5A
935093001	RM12C-MASV4A
935093002	RM12C-FASV4A
935093003	RM12C-MASV5A
935093004	RM12C-FASV5A
935092006	RM12C-MSSV4AD-CAT5
935092007	RM12C-FSSV4AD-CAT5
935092009	RM12C-FSSR4D-CAT5
935092005	RM12C-MSSV8A
935092008	RM12C-MSSV8X-CAT6a
935093006	RM12C-MASV4AD-CAT5
935093007	RM12C-FASV4AD-CAT5
935093005	RM12C-MASV8A
932507008	Crimping tool XZC 0708 RM12
932507009	XZC 0708 RM12 Locator
934959001	DMEWKZ P12-16

We have checked that the contents of the technical publication agree with the hardware and software described. However, it is not possible to rule out deviations completely, so we are unable to guarantee complete agreement. However, the details in the technical publication are checked regularly. Any corrections which prove necessary are contained in subsequent editions. We are grateful for suggestions for improvement. We reserve the right to make technical modifications. Permission is not given for the circulation or reproduction of this document, its use or the passing on of its contents unless granted expressly. Contravention renders the perpetrator liable for compensation for damages. All rights reserved, in particular in the case of patent grant or registration of a utility or design.

© 2024 Belden Inc.

Manuals are protected by copyright. All rights reserved.
Belden reserves the right to change the contents of this document without prior notice. Belden can give no guarantee in respect of the correctness or accuracy of the information in this document

Note

We would point out that the content of these operating instructions is not part of, nor is it intended to amend an earlier or existing agreement, permit or legal relationship. All obligations on Belden arise from the respective purchasing agreement which also contains the full warranty conditions which have sole applicability. These contractual warranty conditions are neither extended nor restricted by comments in these operating instructions.

RM12C – Rail Series Nomenclature



Attachment Design
RM = Railway Metric Screw
NM = Nirosta Metric Screw
PP = Push Pull
RP = Railway Push Pull
SM = Standard Metric Screw
RJ = Registered Jack

Attachment Size
12 = M12 Metric Size
08 = M8 Metric Size
45 = Registered Jack - 45

Termination Method
C = Crimp Termination (Field Attachable Connector)
I = IDC Termination (Insulation Displacement Connection = Field Attachable Connector)
S = Screw Termination (Field Attachable Connector)

Gender
M = Male
F = Female

Body Version
A = Angled
S = Straight

Shielding
S = Shielded
U = Unshielded

Specifics
V = „V“ = Slot (Not specified within RM12C)

Pole
4 = 4-Pins
5 = 5-Pins
8 = 8-Pins

Coding
A = A-Coding
D = D-Codig
X = X-Coding

Category Class
CAT5 =
CAT6 =
CAT6a = Category class named if applicable
CAT7 =

RM12C 2/3/4/5-pin, A-coded, male

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

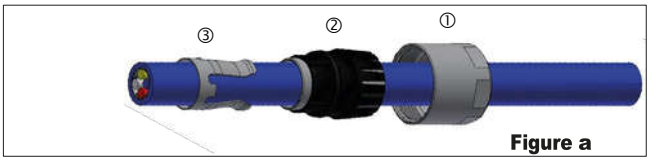


Figure a

Strip off the cable insulation sheath by 25 mm. Cut the metal shielding braid for 10 mm … 15 mm. [**Figure b**]

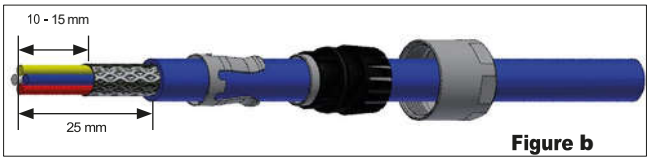


Figure b

Strip the wires to a length of 4.5 mm … 5.0 mm. [**Figure c**]

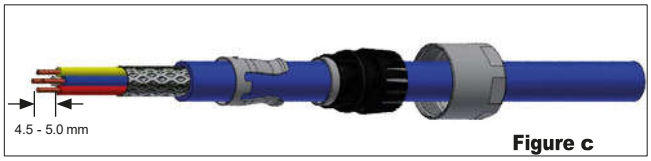
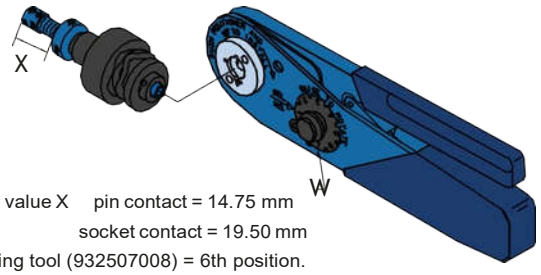


Figure c

Push the 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 (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

Push the adapter (4) on to the cable. [**Figure d**]



Figure d

Snap the contacts into the contact carrier (5) as shown in the table below. [**Figure e**]

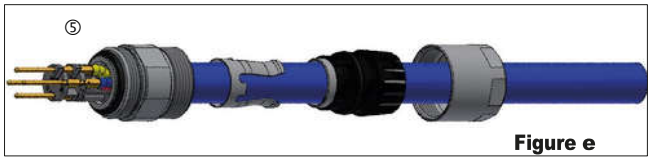
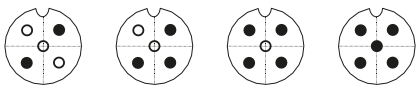


Figure e

Listed products:

RM12C-MSSV4A	**935092001**
RM12C-MSSV5A	**935092003**



Contacts	Cavity
Contact 1	A
Contact 2	B
Contact 3	C
Contact 4	D
Contact 5	E



Insert the pre-assembled 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 f**]

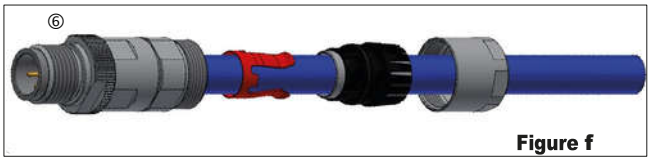


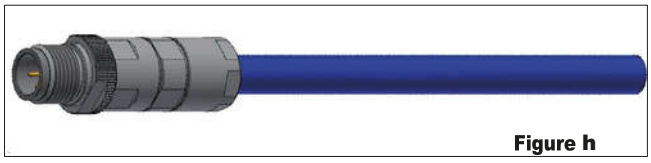
Figure f

Slide the screen contact spring on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield. [**Figure g**]


Figure g

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

Close the M12 connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure h**]


Figure h

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

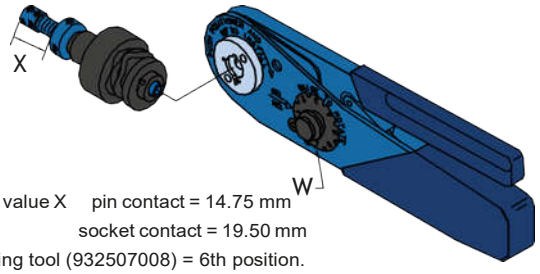
RM12C 2/3/4/5-pin, A-coded, female

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 25 mm. Cut the metal shielding braid for 10 mm … 15 mm. [**Figure b**]

Strip the wires to a length of 4.5 mm … 5.0 mm. [**Figure c**]

Push the 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 (932507008) with the locator (932507009) is recommended.



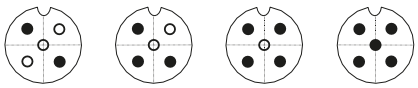
Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

Push the adapter (4) on to the cable. [**Figure d**]

Snap the contacts into the contact carrier (5) as shown in the table below. [**Figure e**]

Listed products:

RM12C-FSSV4A	**935092002**
RM12C-FSSV5A	**935092004**



Contacts	Cavity
Contact 1	B
Contact 2	A
Contact 3	D
Contact 4	C
Contact 5	E



Insert the pre-assembled 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 f**]

Slide the screen contact spring on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield. [**Figure g**]

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

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure h**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

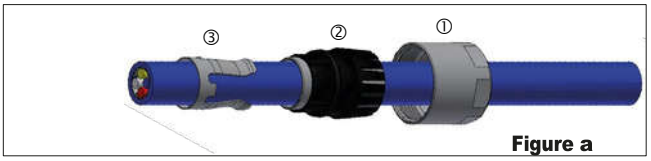


Figure a

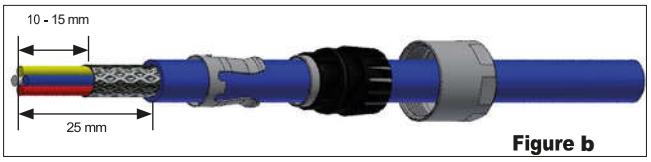


Figure b

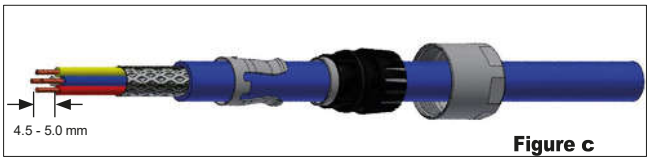


Figure c

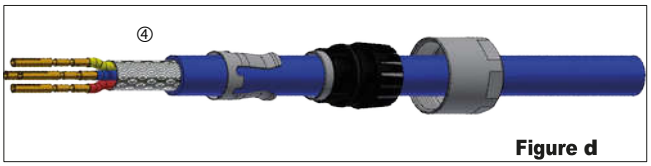


Figure d

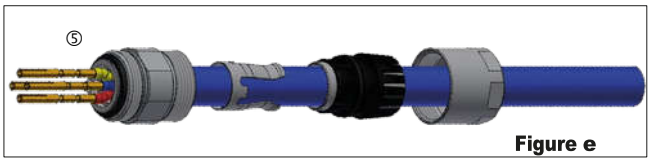


Figure e

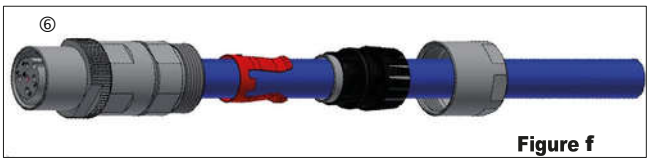
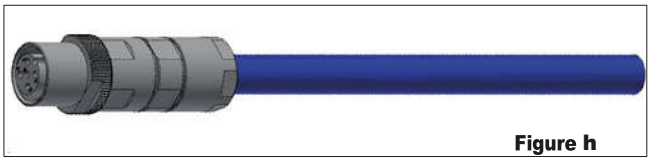


Figure f


Figure g


Figure h

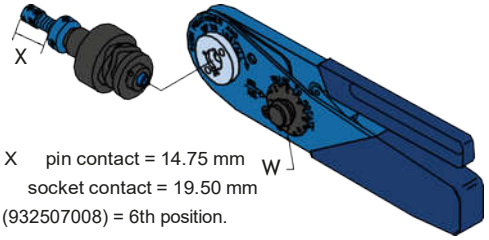
RM12C 2/3/4/5-pin, A-coded, male, angled

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 mm … 5.0 mm. [**Figure c**]

Push the 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 (932507008) with the locator (932507009) is recommended.



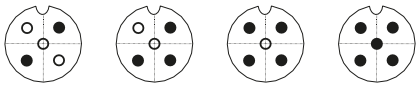
Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm

Selector W on Crimping tool (932507008) = 6th position.

Snap the contacts into the contact carrier (5) as shown in the table below. [**Figure d**]

Listed products:

RM12C-MASV4A	**935093001**
RM12C-MASV5A	**935093003**



Contacts	Cavity
Contact 1	A
Contact 2	B
Contact 3	C
Contact 4	D
Contact 5	E



The cable outlet can be determined by the feet on the angle adapter. [**Figure d** [1]] It is important to note that a pre-assembled plug may be turned a maximum of 60° to the left or right. Otherwise, the cable will be overtwisted and in the worst case the strands will be torn out of the contacts. If more than 60° is required, it is necessary to loosen the cable gland and reposition the cable beforehand.

Insert the pre-assembled 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. 2.5 mm thickness) SW14. (*) The use of DMEWKZ P12-16 (934959001) spanner is recommended. [**Figure e**]

Slide the screen contact spring (3) on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield. [**Figure f**]

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

Close the M12-connector permanently, by using the

DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure g**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

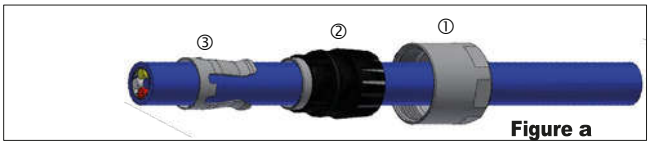


Figure a



Figure b

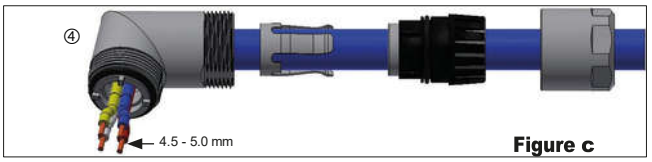


Figure c



Figure d [1]

Figure d

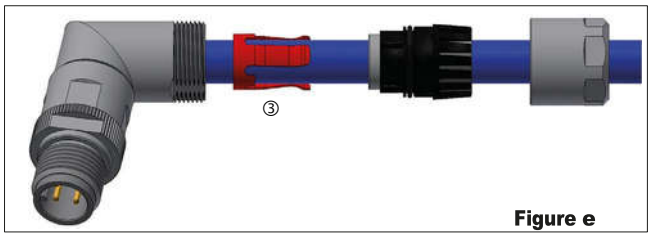


Figure e

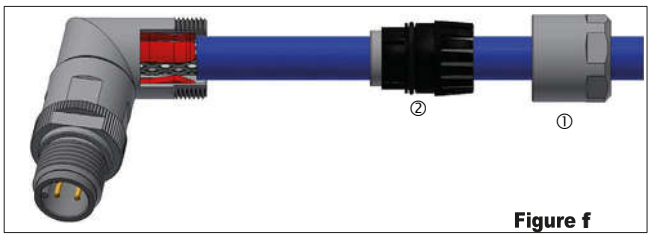
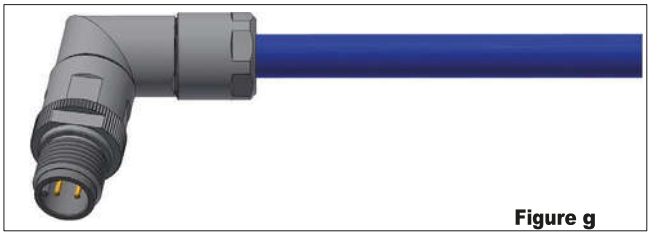


Figure f


Figure g

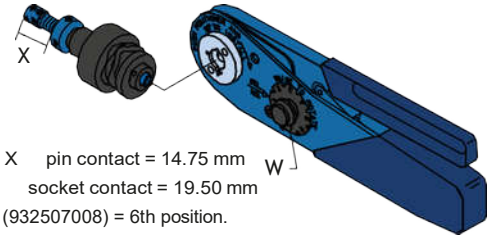
RM12C 2/3/4/5-pin, A-coded, female, angled

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 mm … 5.0 mm. [**Figure c**]

Push the 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 (932507008) with the locator (932507009) is recommended.



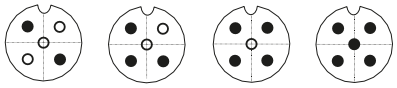
Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm

Selector W on Crimping tool (932507008) = 6th position.

Snap the contacts into the contact carrier (5) as shown in the table below. [**Figure d**]

Listed products:

RM12C-FASV4A	**935093002**
RM12C-FASV5A	**935093004**



Contacts	Cavity
Contact 1	B
Contact 2	A
Contact 3	D
Contact 4	C
Contact 5	E



The cable outlet can be determined by the feet on the angle adapter. [**Figure d** [1]] It is important to note that a pre-assembled plug may be turned a maximum of 60° to the left or right. Otherwise, the cable will be overtwisted and in the worst case the strands will be torn out of the contacts. If more than 60° is required, it is necessary to loosen the cable gland and reposition the cable beforehand.

Insert the pre-assembled 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. 2.5 mm thickness) SW14. (*) The use of DMEWKZ P12-16 (934959001) spanner is recommended. [**Figure e**]

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

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

Close the M12-connector permanently, by using the

DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure g**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

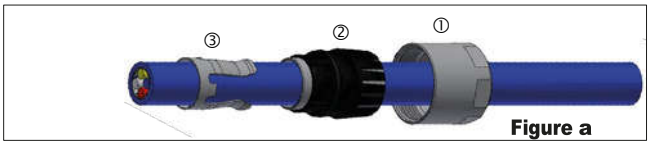


Figure a



Figure b

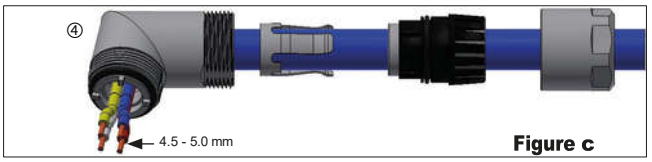


Figure c

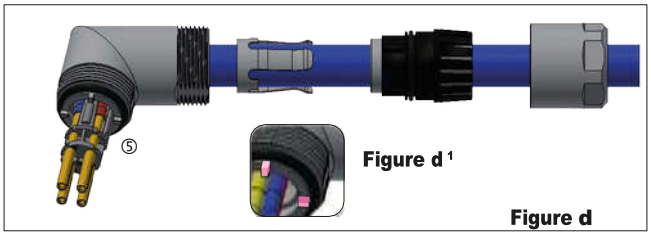


Figure d [1]

Figure d

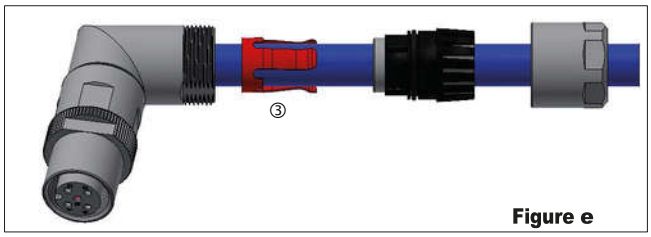


Figure e



Figure f


Figure g

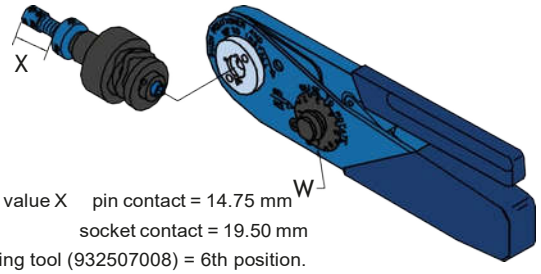
RM12C 8-pin, A-coded, male

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 25 mm. Cut the metal shielding braid and aluminum foil for 10 mm … 15 mm. [**Figure b**]

Strip the wires to a length of 6.0 mm … 6.5 mm. [**Figure c**]

Push the 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 (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

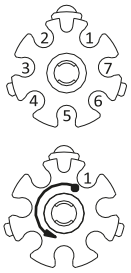
Push adapter (4) on to the cable. [**Figure d**]

Snap the contacts into the contact carrier (5) as shown in the table below. [**Figure e**]

Listed products:

RM12C-MSSV8A	935092005

Contacts	Wire colors acc. TIA 568B
Contact 1	blue / white
Contact 2	brown /white
Contact 3	brown
Contact 4	orange
Contact 5	green / white
Contact 6	orange /white
Contact 7	blue
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 f**]

Slide the screen contact spring on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield.
[**Figure g**]

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

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure h**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

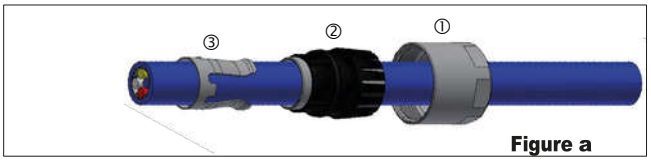


Figure a

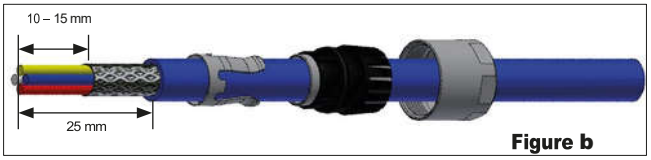


Figure b

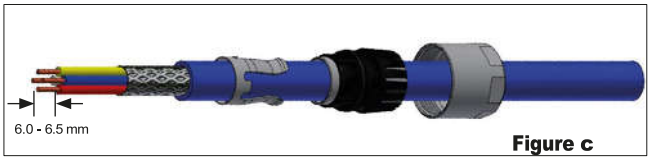


Figure c



Figure d

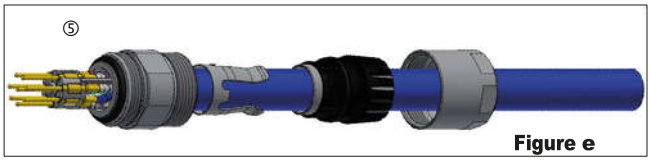


Figure e

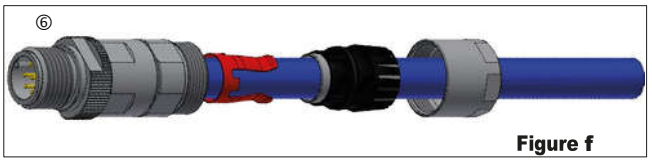
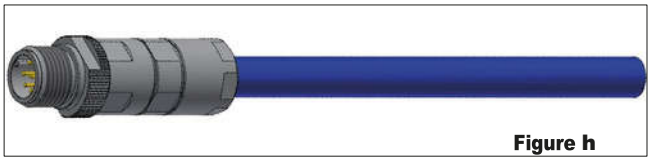


Figure f


Figure g


Figure h

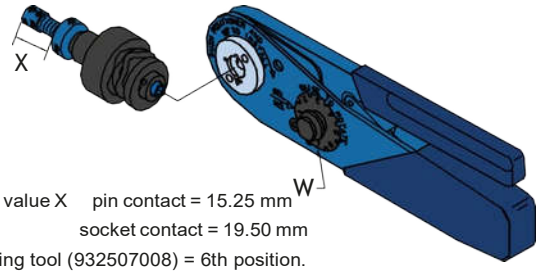
RM12C 8-pin, A-coded, male, angled

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 mm … 6.5 mm. [**Figure c**]

Push the 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 (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 15.25 mm
socket contact = 19.50 mm

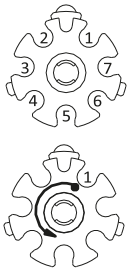
Selector W on Crimping tool (932507008) = 6th position.

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

Listed products:

RM12C-MASV8A	935093005

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



The cable outlet can be determined by the feet on the angle adapter. [**Figure d** [1]] It is important to note that a pre-assembled plug may be turned a maximum of 60° to the left or right. Otherwise, the cable will be overtwisted and in the worst case the strands will be torn out of the contacts. If more than 60° is required, it is necessary to loosen the cable gland and reposition the cable beforehand.

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. 2.5 mm thickness) SW14. (*) The use of DMEWKZ P12-16 (934959001) spanner is recommended. [**Figure e**]

Slide the screen contact spring (3) on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield. [**Figure f**]

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

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure g**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

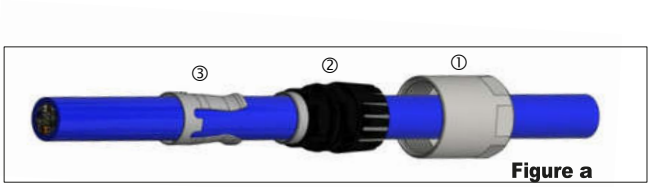


Figure a

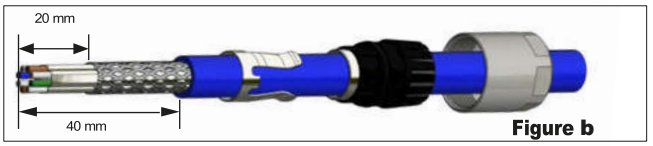


Figure b

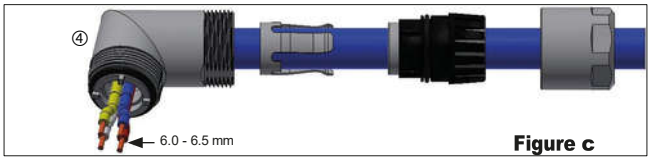


Figure c



Figure d [1]

Figure d

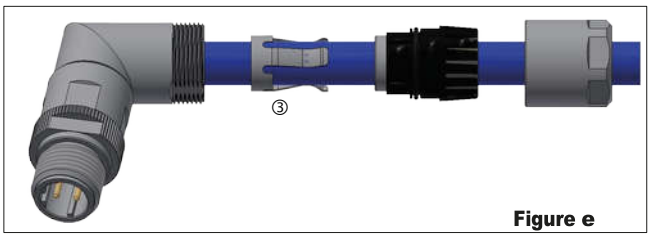


Figure e

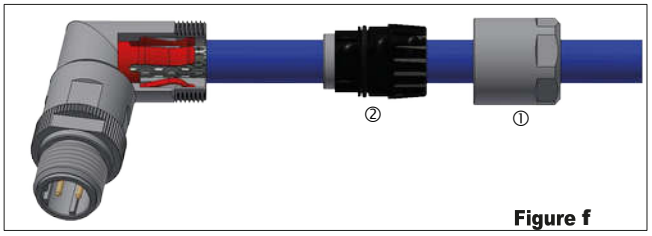
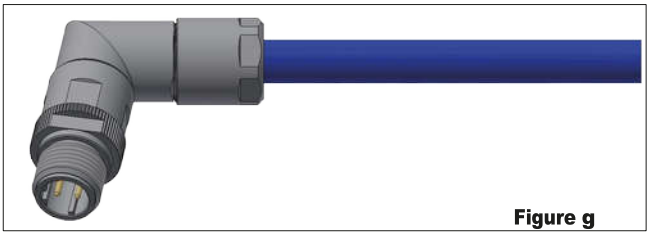


Figure f


Figure g

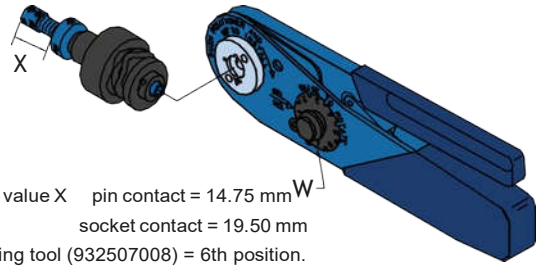
RM12C 4-pin, D-coded, male

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 25 mm. Cut the metal shielding braid for 10 mm … 15 mm. [**Figure b**]

Strip the wires to a length of 4.5 mm … 5.0 mm. [**Figure c**]

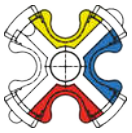
Push the contacts onto stripped wire end and crimp with adequate crimping tool. Ensure visibility of the wire through the inspection hole at contact bucket side. The use of the crimping tool (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

Push the adapter (4) on to the cable. [**Figure d**]

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



Listed products:

RM12C-MSSV4AD-CAT5	**935092006**

Contacts	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 f**]

Slide the screen contact spring on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield. [**Figure g**]

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

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure h**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

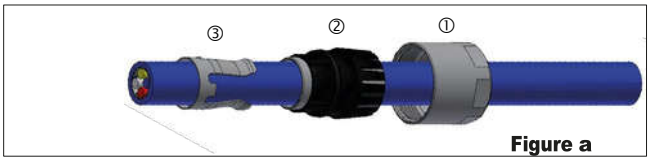


Figure a

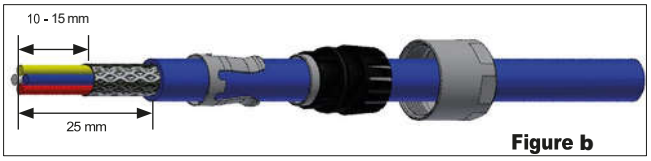


Figure b

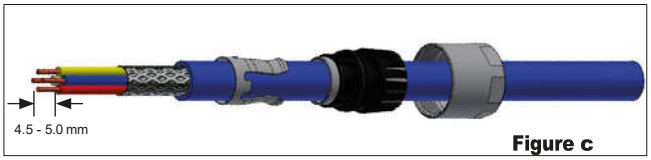


Figure c

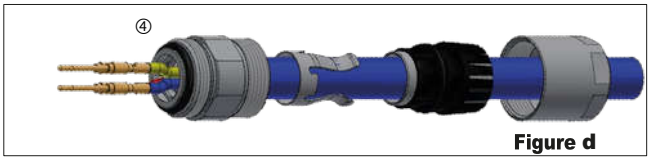


Figure d

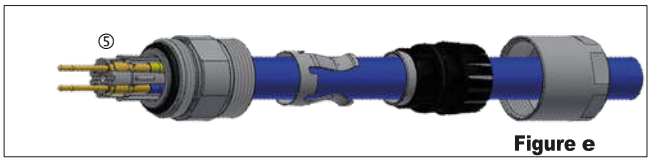


Figure e

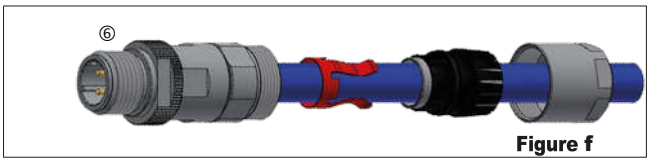
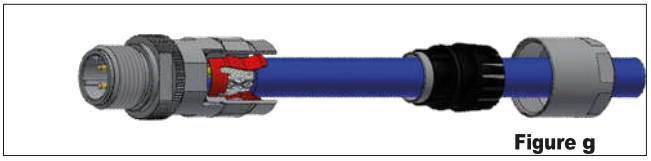
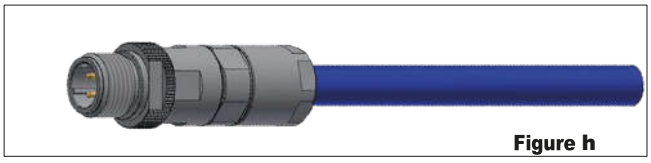


Figure f


Figure g


Figure h

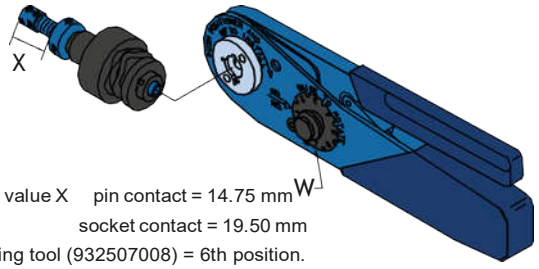
RM12C 4-pin, D-coded, female

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 25 mm. Cut the metal shielding braid for 10 - 15 mm. [**Figure b**]

Strip the wires to a length of 4.5 mm … 5.0 mm. [**Figure c**]

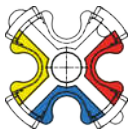
Push the contacts onto stripped wire end and crimp with adequate crimping tool. Ensure visibility of the wire through the inspection hole at contact bucket side. The use of the crimping tool (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

Push the adapter (4) on to the cable. [**Figure d**]

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



Listed products:

RM12C-FSSV4AD-CAT5	935092007

Contacts	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 f**]

Slide the screen contact spring on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring standing firmly on the braided shield. [**Figure g**]

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

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure h**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

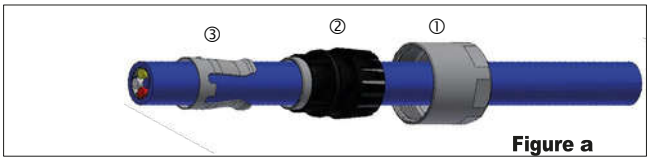


Figure a

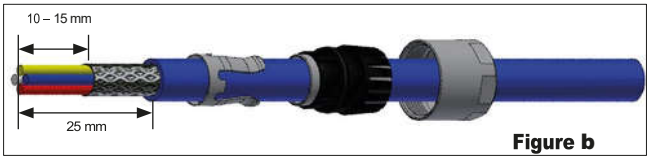


Figure b

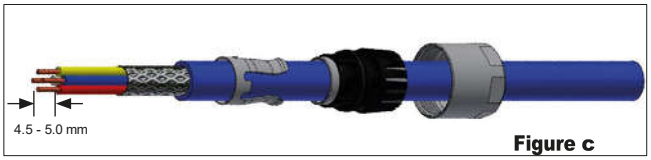


Figure c



Figure d

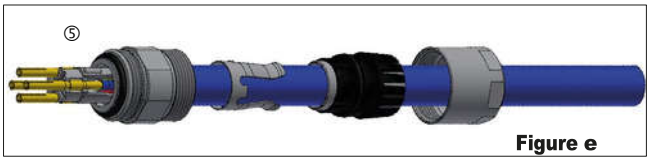


Figure e

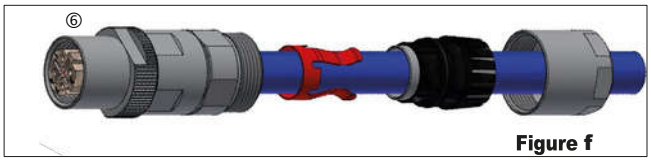
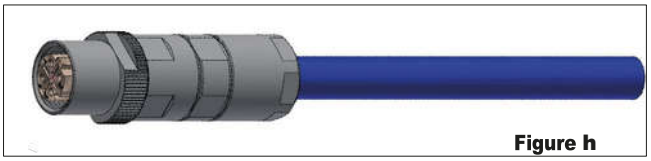


Figure f


Figure g


Figure h

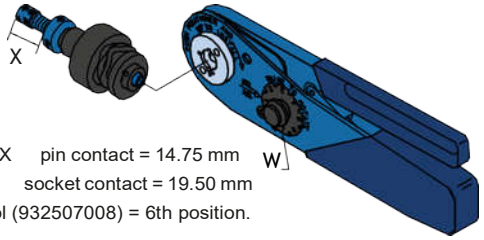
RM12C 4-pin, D-coded, male, angled

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**]

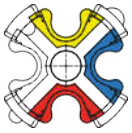
Push the 100° angle adapter over the cable. Strip the wires to a length of 4.5 mm … 5.0 mm. [**Figure c**]

Push the 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 (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

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



Listed products:

RM12C-MASV4AD-CAT5	**935093006**

Contacts	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

The cable outlet can be determined by the feet on the angle adapter. [**Figure d ¹**] It is important to note that a pre-assembled plug may be turned a maximum of 60° to the left or right. Otherwise, the cable will be overtwisted and in the worst case the strands will be torn out of the contacts. If more than 60° is required, it is necessary to loosen the cable gland and reposition the cable beforehand.

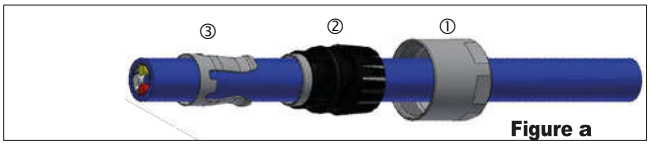
Insert the pre-assembled ethernet cable with the contact carrier in compliance with the coding check mark (notch) completely into the M12 module (5). Screw the M12 module on the adapter with a spanner (max. 2.5 mm thickness) SW14. (*) The use of DMEWKZ P12-16 (934959001) spanner is recommended. [**Figure e**]

Slide the screen contact spring (3) on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield. [**Figure f**]

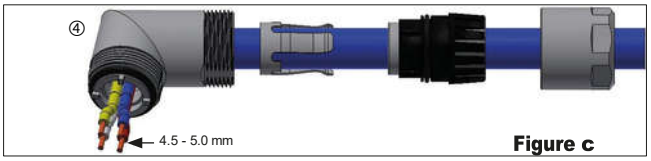
Fully push the cable gland (2) into the adapter, so that the feet of the screen contact spring lies under the cable gland and firmly press on the braided shield.

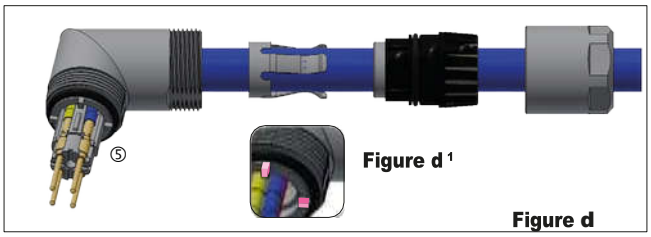
Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure g**]

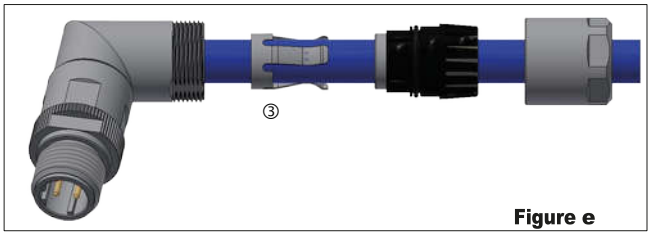
(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

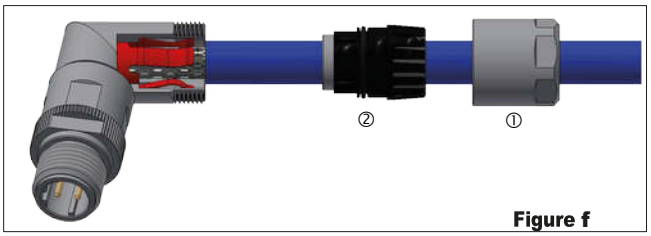


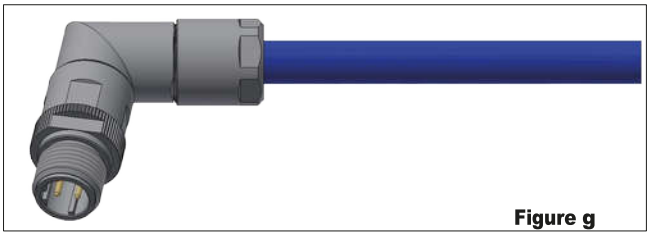












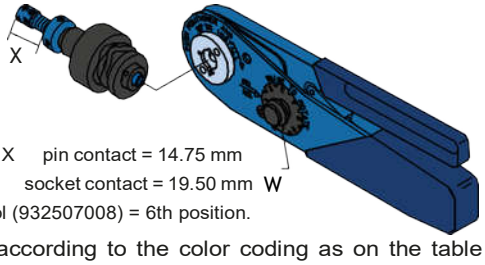
RM12C 4-pin, D-coded, female, angled

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 4.5mm … 5.0 mm. [**Figure c**]

Push the 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 (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

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



Listed products:

RM12C-FASV4AD-CAT5	**935093007**

Contacts	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

The cable outlet can be determined by the feet on the angle adapter. [**Figure d ¹**] It is important to note that a pre-assembled plug may be turned a maximum of 60° to the left or right. Otherwise, the cable will be overtwisted and in the worst case the strands will be torn out of the contacts. If more than 60° is required, it is necessary to loosen the cable gland and reposition the cable beforehand.

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. 2.5 mm thickness) SW14. (*) The use of DMEWKZ P12-16 (934959001) spanner is recommended. [**Figure e**]

Slide the screen contact spring (3) on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring are standing firmly on the braided shield. [**Figure f**]

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

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure g**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

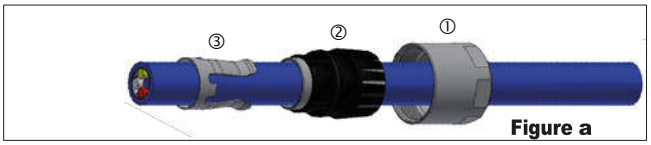


Figure a



Figure b

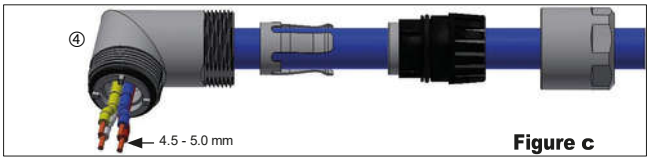


Figure c



Figure d ¹

Figure d

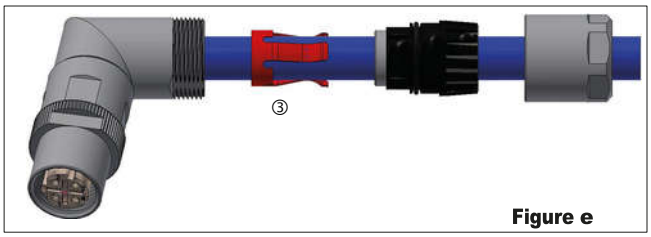


Figure e

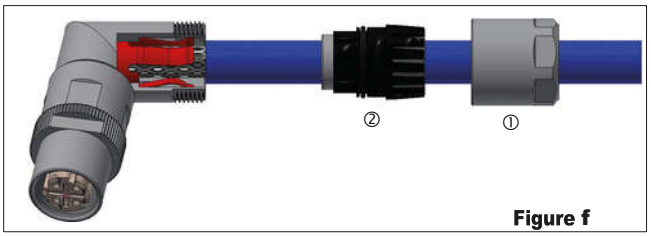
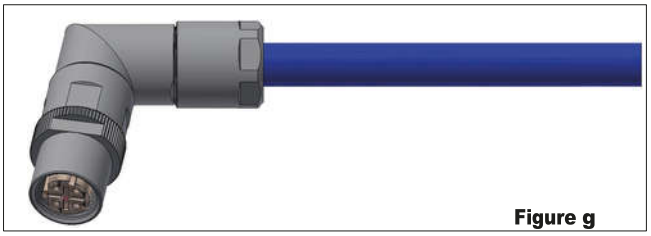


Figure f


Figure g

RM12C 4-pin, D-coded, female, wall duct

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

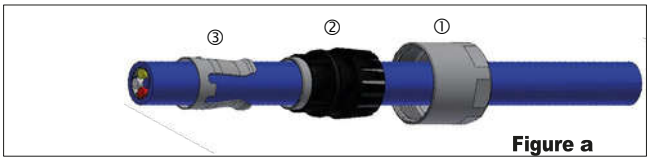


Figure a

Strip off the cable insulation sheath by 25 mm. Cut the metal shielding braid for 10 mm … 15 mm. [**Figure b**]

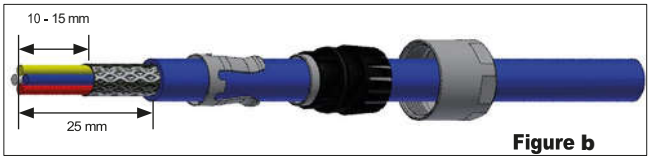


Figure b

Strip the wires to a length of 4.5 mm … 5.0 mm. [**Figure c**]

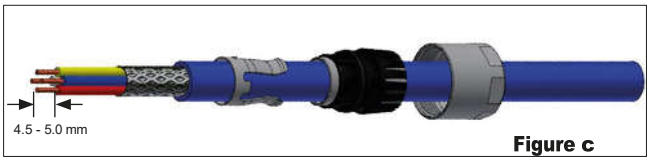
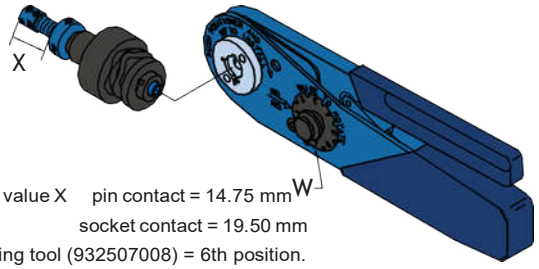


Figure c

Push the 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 (932507008) with the locator (932507009) is recommended.



Locator (932507009) value X pin contact = 14.75 mm
socket contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

Push the adapter (4) on to the cable. [**Figure d**]

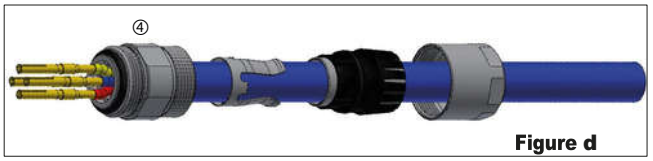


Figure d

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

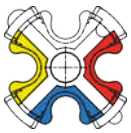




Figure e

Listed products:

RM12C-FSSR4D-CAT5	935093009

Contacts	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 f**]

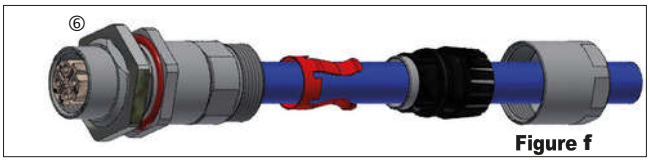
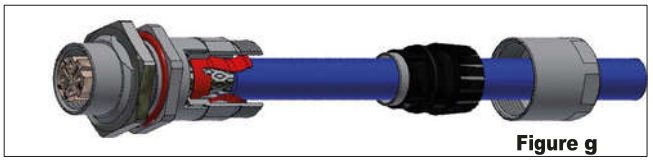


Figure f

Slide the screen contact spring on the cable shield up to the stop in the adapter. Make sure that the feet of the screen contact spring standing firmly on the braided shield. [**Figure g**]


Figure g

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

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure h**]


Figure h

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

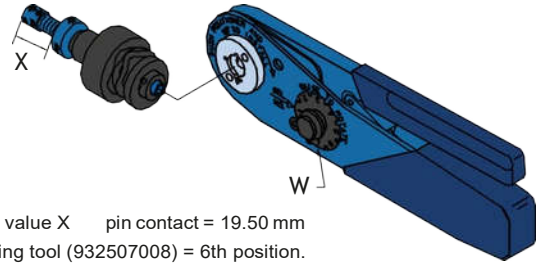
RM12C 8-pin, X-coded, male

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 25 mm. Cut the metal shielding braid by 10 mm … 15 mm and aluminum foil by approx. 4 mm. [**Figure b**]

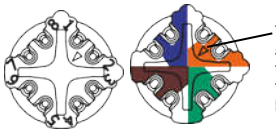
Slide the spacer sleeve (4) over the shielding braid. Strip the wires to a length of 3.0 mm … 3.5 mm. [**Figure c**]

Push the contacts onto stripped wire end and crimp with adequate crimping tool. The use of the crimping tool (932507008) with the Locator (932507009) is recommended. [**Figure d**]



Locator (932507009) value X pin contact = 19.50 mm
Selector W on Crimping tool (932507008) = 6th position.

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



The arrow describes the alignment of the contact carrier to the connector housing (note the marking in the connector housing)

Listed products:

RM12C-MSSV8X-CAT6a	935092008

Contacts	Wire color		Contacts	Wire color	
Contact 1	white/orange		Contact 5	white/brown	
Contact 2	orange		Contact 6	brown	
Contact 3	white/green		Contact 7	white/blue	
Contact 4	green		Contact 8	blue	

Slide contact protection (6) over contacts [**Figure f**]

Push the shield spring (red) up to the stop under the spacer sleeve onto the cable shield. Make sure that the feet of the spring are positioned neatly on the shield braid. [**Figure g**]

Push the pre-assembled ethernet cable - observing the coding marking (groove) - together with the contact holder into the M12 module. Then push the cable gland into the M12 module. Pay attention that the feet of the screen contact spring are fixed under the cable gland and are firmly pressed onto the shield. [**Figure h**]

Close the M12-connector permanently, by using the DMEWKZ P12-16 (934959001) spanner to screw the coupling nut to the adapter (*). [**Figure i**]

(*) Applicable tightening torque is approx. 1.5 Nm … 2.0 Nm (max. 3.0 Nm)

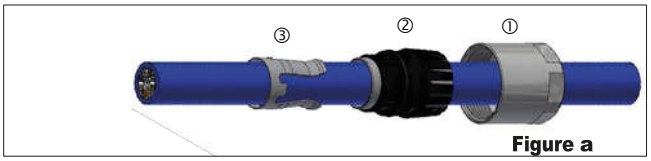


Figure a

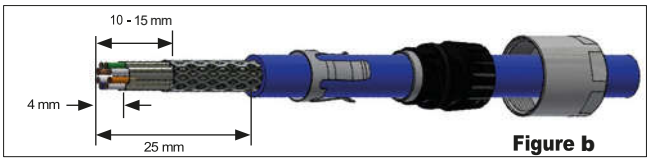


Figure b

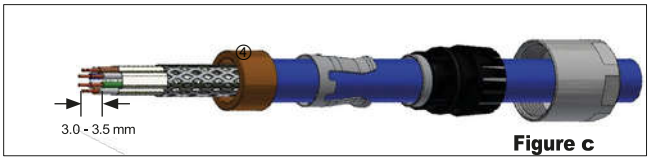
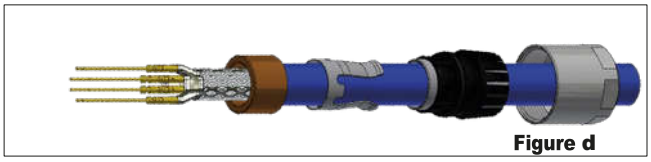


Figure c


Figure d

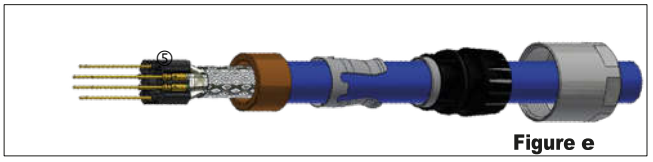


Figure e

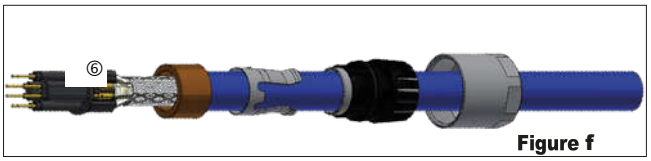
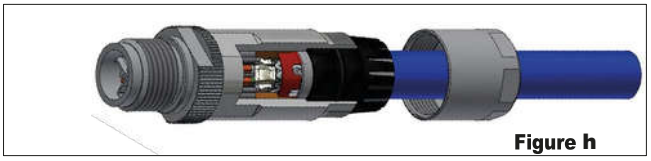
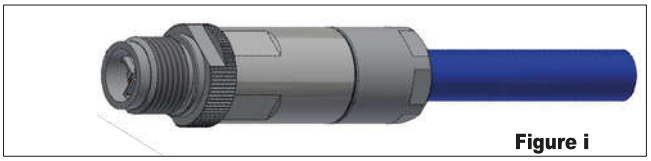


Figure f


Figure g


Figure h


Figure i