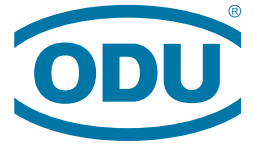


A PERFECT ALLIANCE.



ODU-MAC[®] PUSH-LOCK

Blue-Line

Assembly instruction



Safety instructions / protective conductor connection

A protective conductor termination is mandatorily required if the „limits for **TOUCHABLE PARTS**“ described in the respective standards are exceeded and no other protective measures against electric shock have been taken. In any case, before commissioning, a check of the protective connection and all **TOUCHABLE PARTS** must be carried out according to the relevant standards.

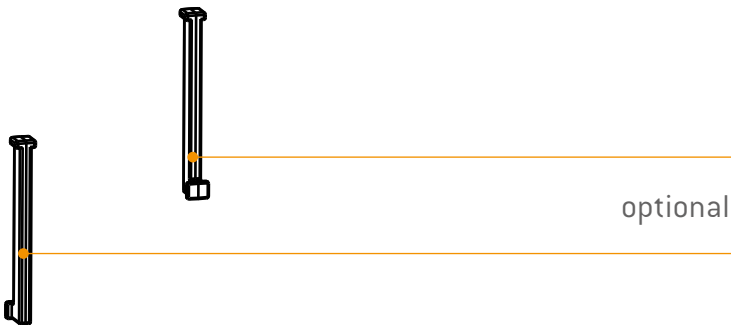
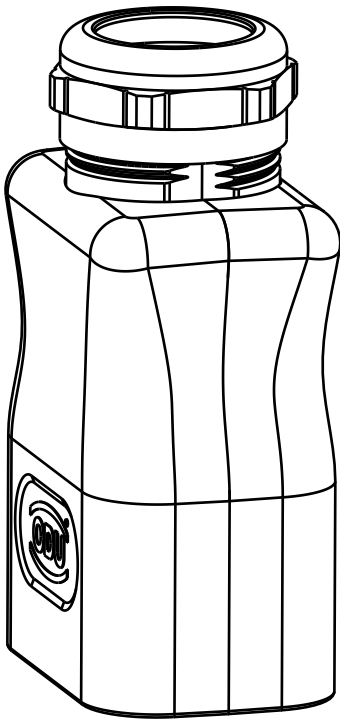
When mated, the housing listed in this data sheet corresponds to the requirements specified in DIN EN 61984:2009 with regard to protection against contact in accordance with DIN EN 60529:1998.

The back of the device must be secured against touching. The customer must ensure strain relief for the cables / strands on the device part.

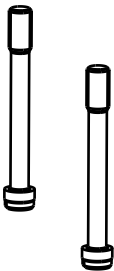
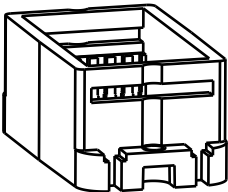
ASSEMBLY INSTRUCTIONS

ODU-MAC® PUSH-LOCK CONNECTOR	03 – 07
ODU-MAC® PUSH-LOCK RECEPTACLE	09 – 12
ODU-MAC® PUSH-LOCK HOUSING EMC SHIELDING	13

ODU-MAC® PUSH-LOCK CONNECTOR



optional



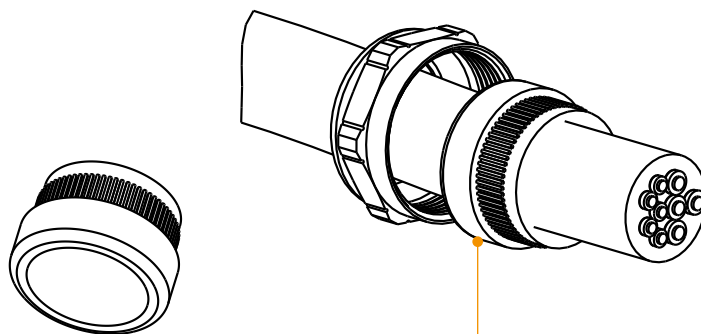
Step 1

- Slide the clamping screw and the right seal insert over the cable.

ATTENTION!

Seal insert

The right seal insert must be ordered separately

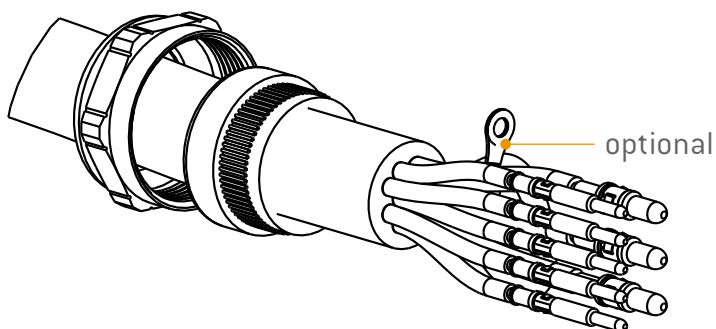


Part number	For cable-Ø	Color
921.000.006.999.001	7.0 – 10.5	Green
921.000.006.999.011		Gray
921.000.006.999.002	9.0 – 13.0	Red
921.000.006.999.012		Gray

Part number	For cable-Ø	Color
921.000.006.999.003	14.0 – 18.0	Blue
921.000.006.999.013		Gray
921.000.006.999.004	17.0 – 20.5	Brown
921.000.006.999.014		Gray

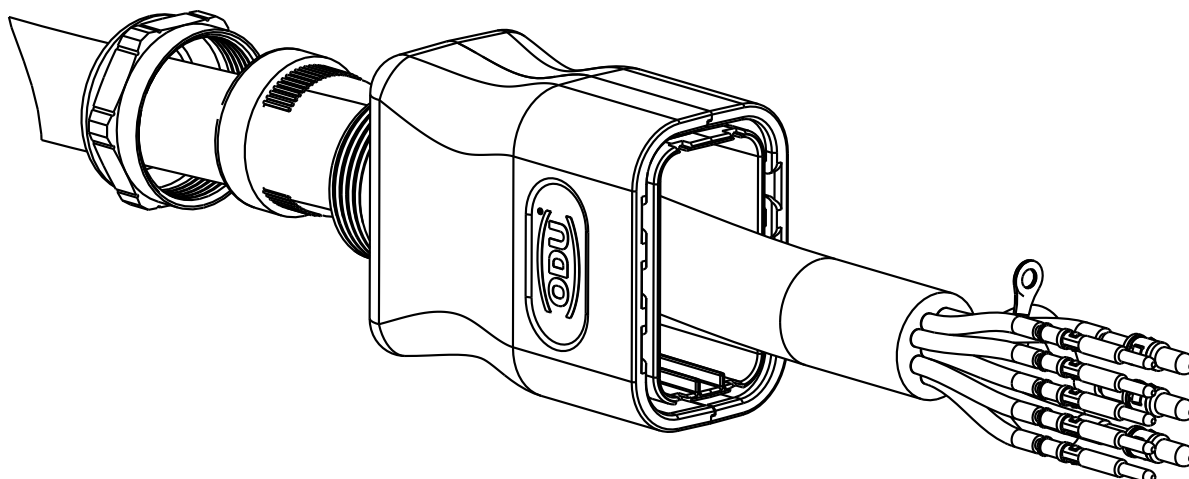
Step 2

- Strip cable and wire.
- Fit wire into the contact drilling and crimp [see [assembly instruction ODU-MAC® Blue-Line](#)].
- PE-connection optional, cable lug M3
- If necessary swap step 2 and step 3.



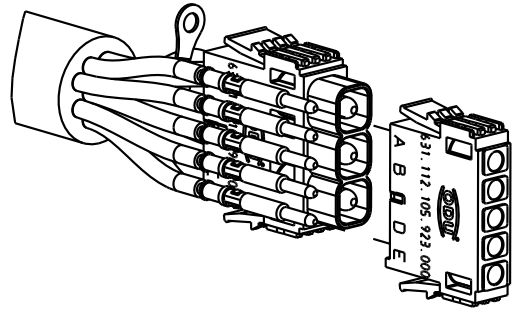
Step 3

- Slide the connector housing over the cable.



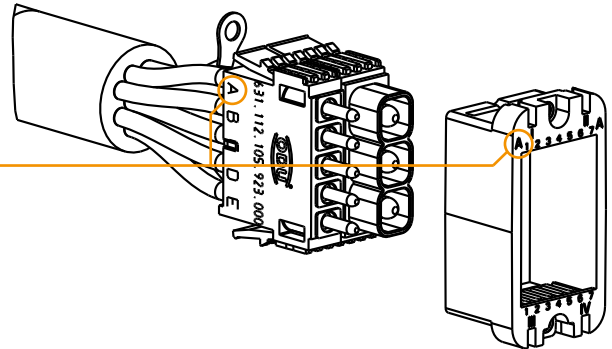
Step 4

- ▶ Insert contacts into insulator according to numbering (see [assembly instruction ODU-MAC® Blue-Line](#)).



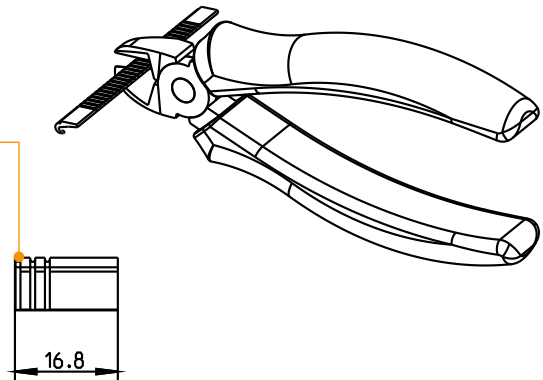
Step 5

- ▶ Put the assembled insulators into the frame.
- ▶ Observe (A to A) the insulator coding (see [assembly instruction ODU-MAC® Blue-Line](#)).



Step 6

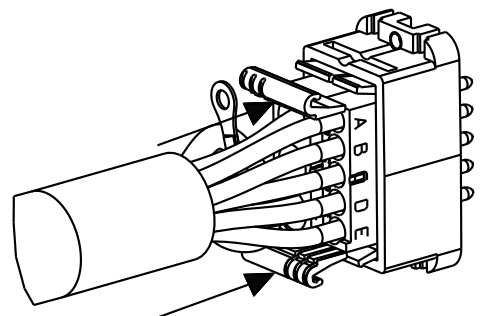
- ▶ Cut the secondary locking to a length of 16.8 mm with the help of the available grid (2.4 mm).



Step 7

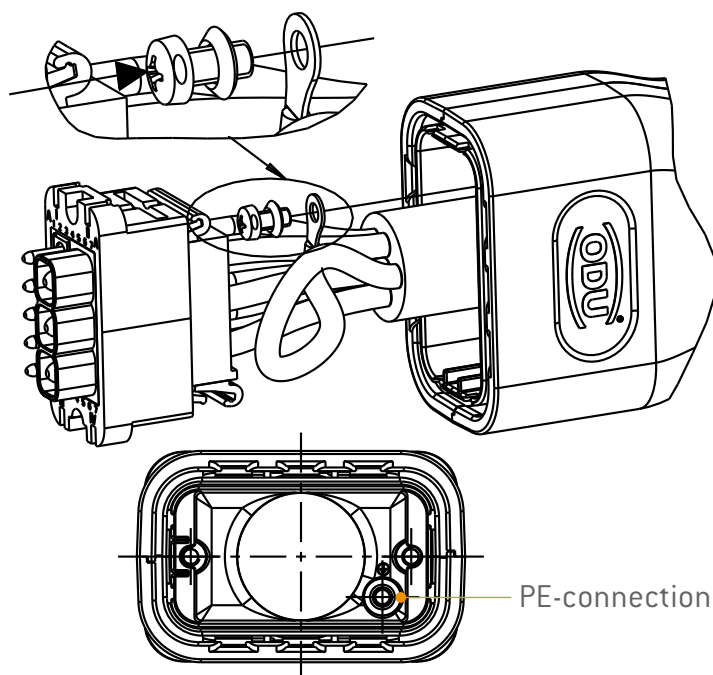
- ▶ Click the secondary locking into the clip-hook of the modules (see [assembly instruction ODU-MAC® Blue-Line](#)).
- ▶ Please pay attention that all insulators are snapped in correctly. All snap fits should be in line.

The correctly mounted secondary locking ensures that all modules are correctly snapped into place in the frame.



Step 8

- Screw the PE-wire onto the connector housing.
- Locking torque 0.6 Nm $\pm$ 0.2 Nm, drive Phillips PH1

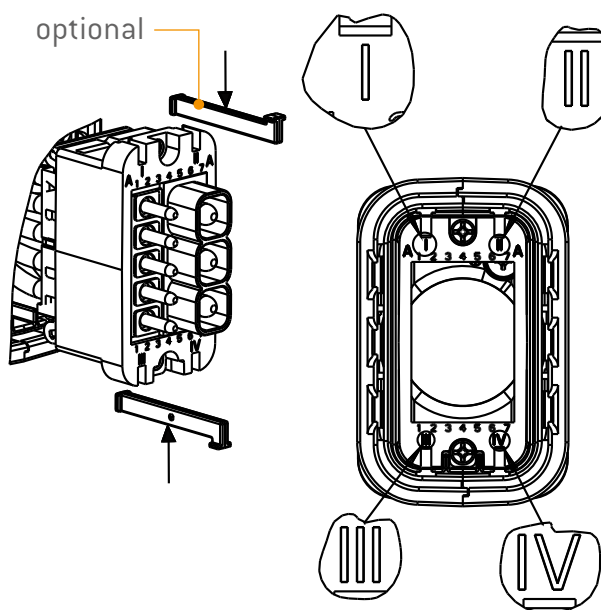


Step 9 (optional)

- Slide the coding element sideways into the selected position.

Coding Connector			
Coding A	II	+	III
Coding B	I	+	IV
Coding C	III	+	IV
Coding D	I	+	II
Coding E	II	+	IV
Coding F	I	+	III

- Coding position see table.

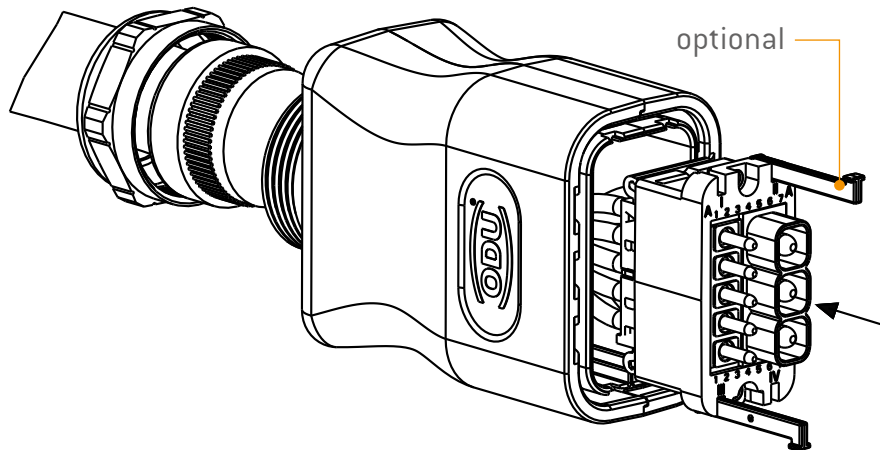


Step 10

- ▶ Slide the assembled frame into the connector housing.

ATTENTION!

Observe the right position!
Don't damage the wire!

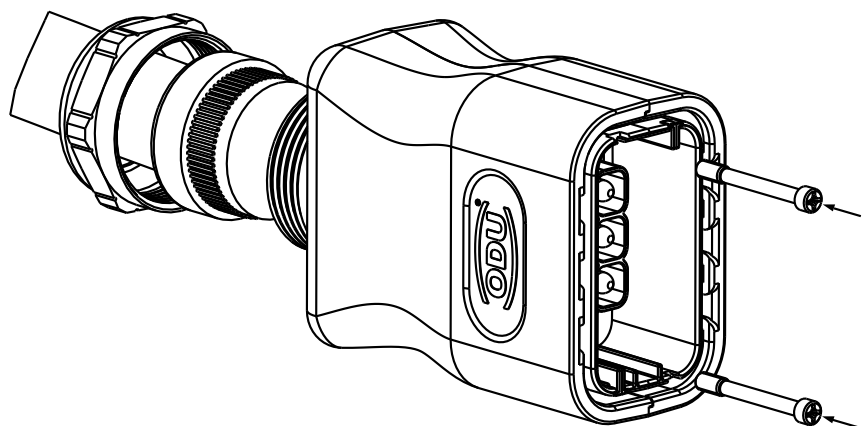


Step 11

- ▶ Screw the frame and connector housing together.
- ▶ Locking torque 0,6 Nm $\pm$ 0,2 Nm: drive Phillips PH1

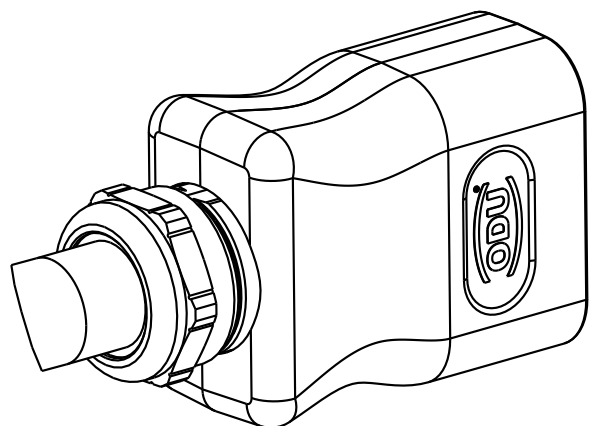
ATTENTION!

2-times thread!

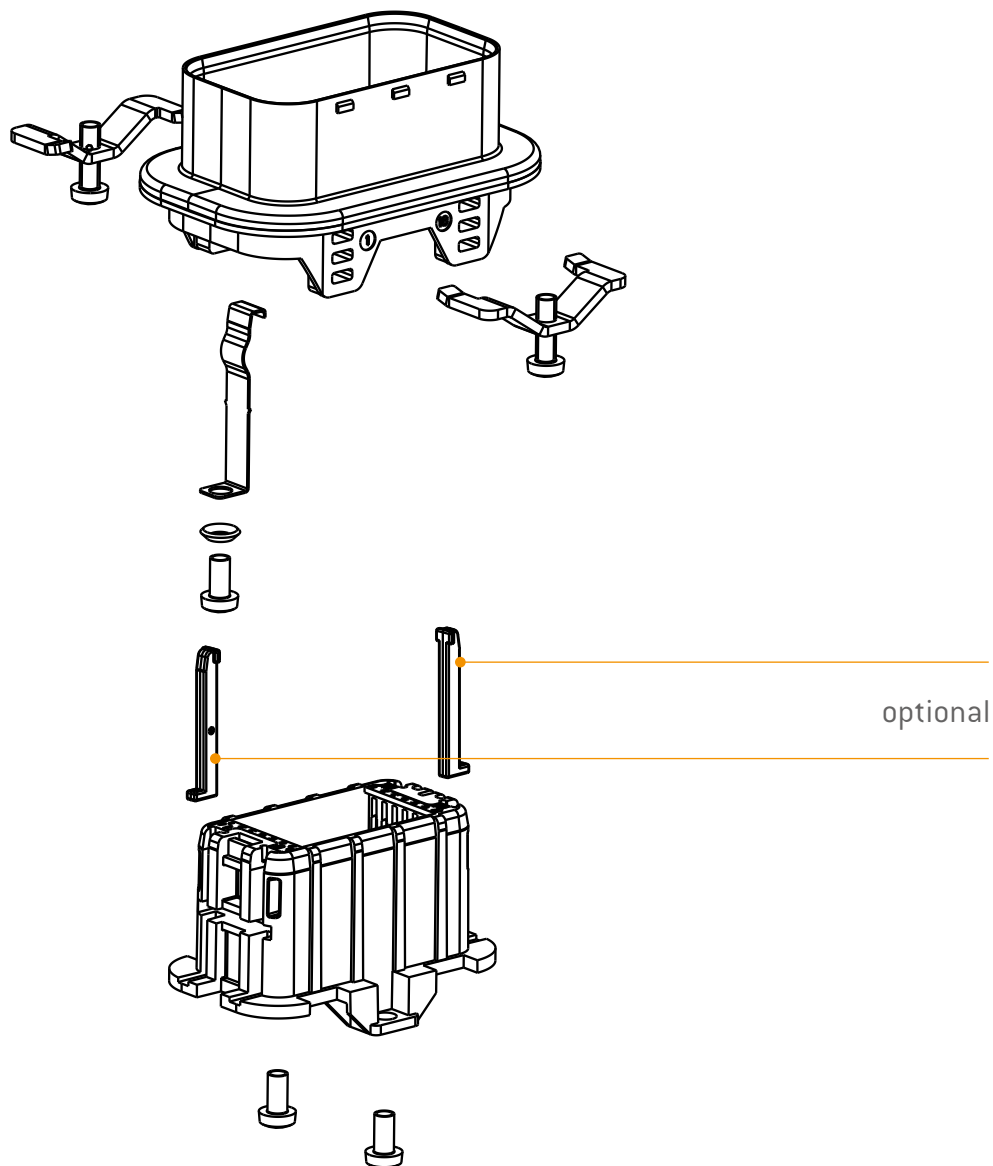


Step 12

- ▶ Screw the clamping screw and connector housing together.
- ▶ Locking torque 10 Nm $\pm$ 0,2 Nm ; AF 30



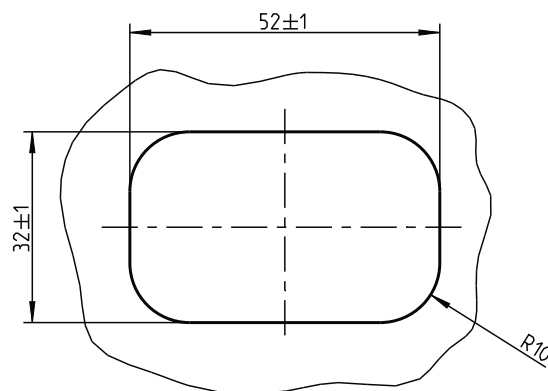
ODU-MAC® PUSH-LOCK RECEPTACLE



Panel cut out

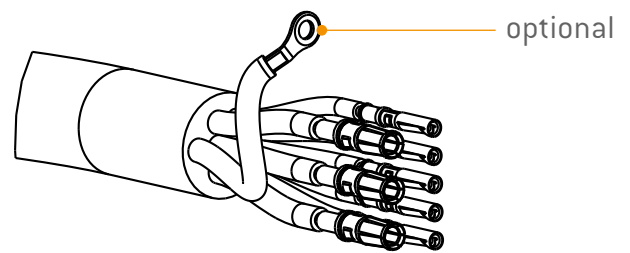
ATTENTION!

Mounting wall must be designed stable enough to ensure tightness!



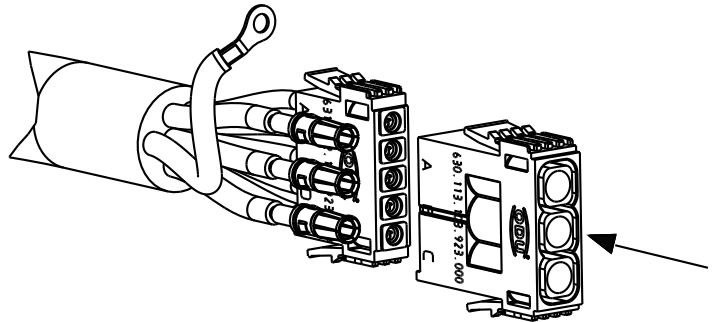
Step 1

- ▶ Strip cable and wire.
- ▶ Fit wire into the contact barrel and crimp.
[see [assembly instruction ODU-MAC® Blue-Line](#)]
- ▶ PE-connection (optional): cable lug M3



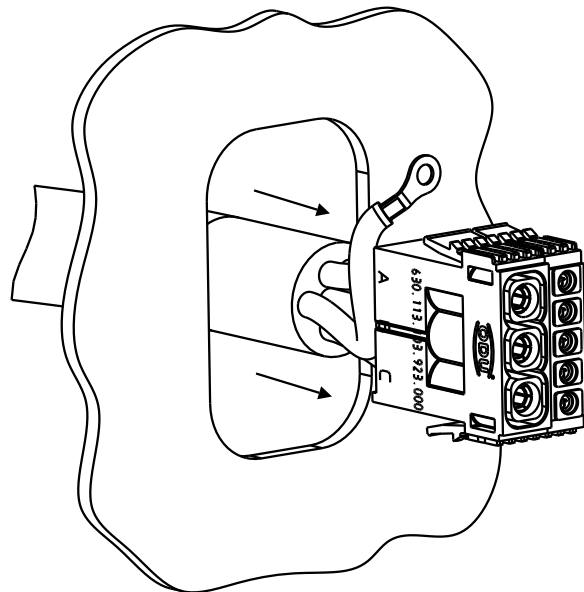
Step 2

- ▶ Insert contacts into the insulator according to numbering
[see [assembly instruction ODU-MAC® Blue-Line](#)].



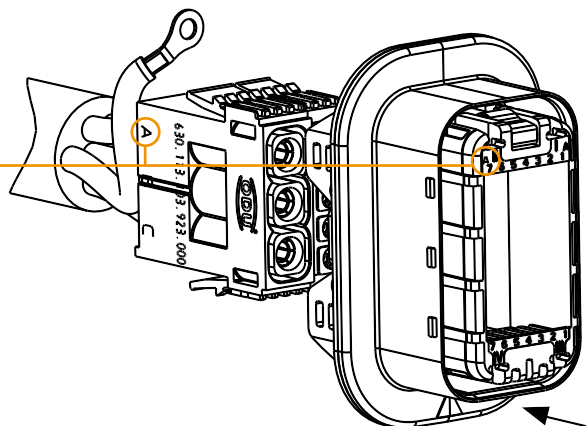
Step 3

- ▶ Put the insulator including wire through the panel cut out.



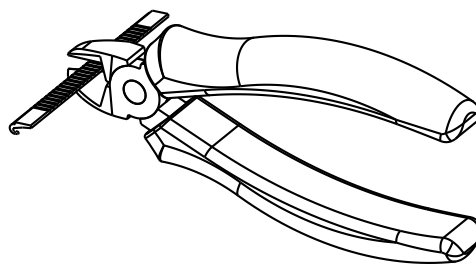
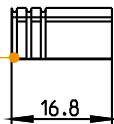
Step 4

- ▶ Put the assembled insulators into the frame.
- ▶ Observe (A to A) the insulator coding.
[see [assembly instruction ODU-MAC® Blue-Line](#)]



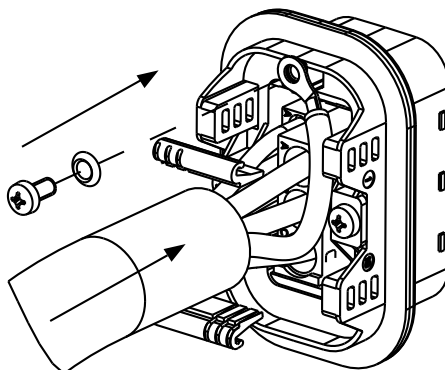
Step 5

- ▶ Cut the secondary locking to a length of 16.8 mm with the help of the available grid (2.4 mm)



Step 6

- ▶ Click the secondary locking into the clip-hook of the modules (see [assembly instruction ODU-MAC® Blue-Line](#)).
- ▶ Please pay attention that all insulators are snapped in correctly. All snap fits should be in line.
- ▶ Screw the PE-Wire onto the base body.
- ▶ Locking torque 0,6 Nm +/- 0,2 Nm, drive Phillips PH1

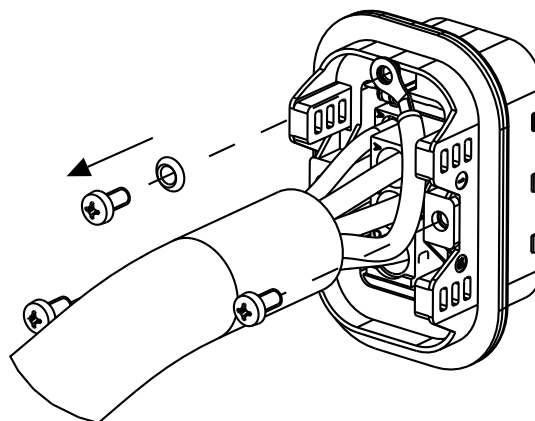


ATTENTION!

Please follow the optional steps if you have ordered the coding element.

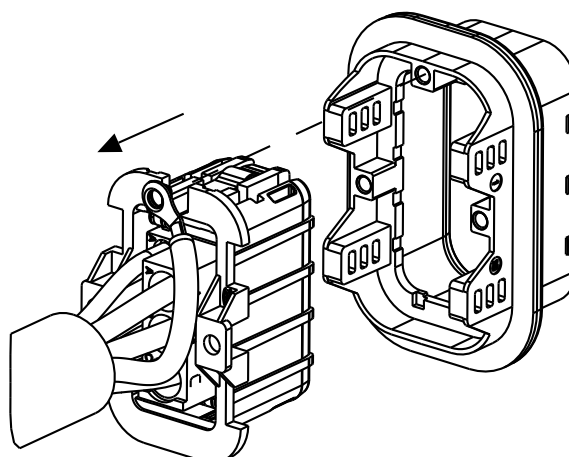
Step 7 (optional)

- ▶ Remove the screws of the PE connection and of the receptacle.



Step 8 (optional)

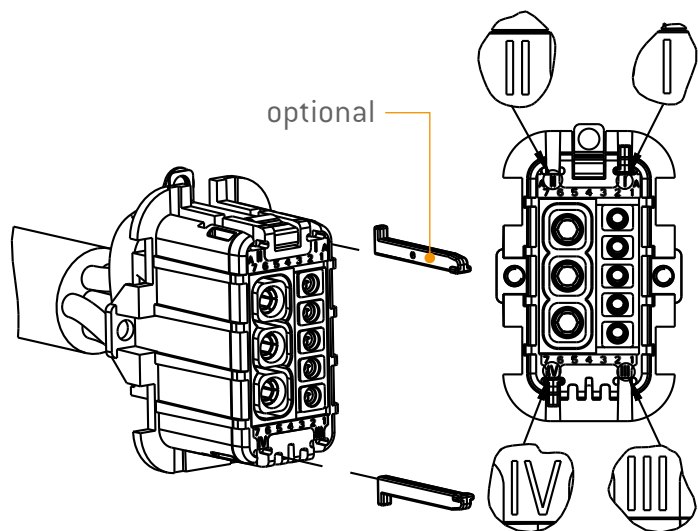
- ▶ Pull the frame backwards from the base body.



Step 9 (optional)

- ▶ Slide the coding element in from the front side.
- ▶ Slide into the selected position.
- ▶ Coding position see table.

Coding receptacle			
Coding A	I	+	IV
Coding B	II	+	III
Coding C	I	+	II
Coding D	III	+	IV
Coding E	I	+	III
Coding F	II	+	IV

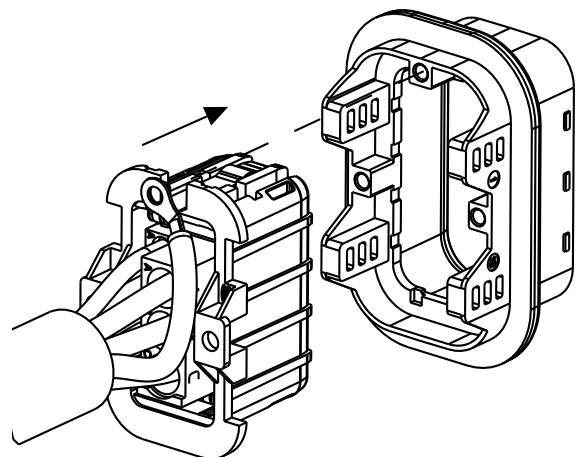


Step 10 (optional)

- ▶ Slide the frame including coding elements from the back into the frame.

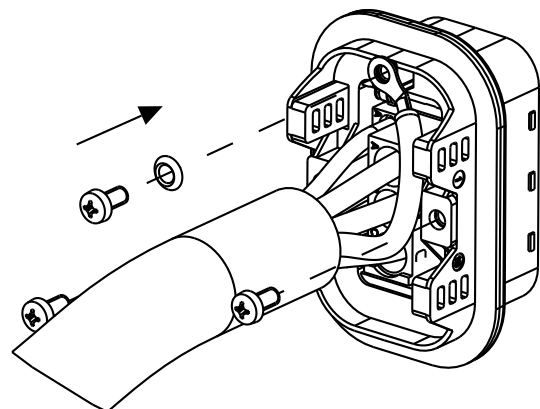
ATTENTION!

Observe the right position!



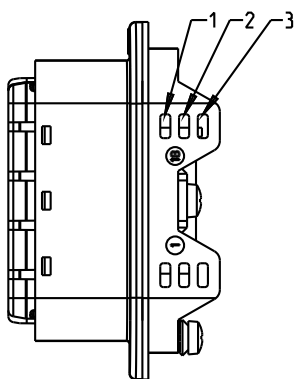
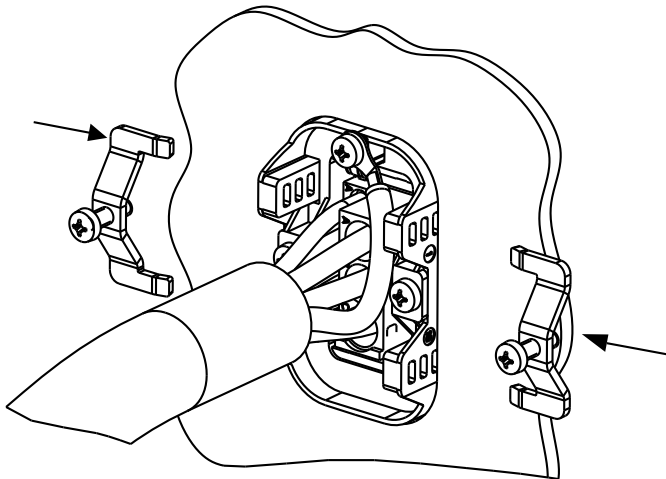
Step 11 (optional)

- ▶ Screw the frame and the base body together.
- ▶ Screw the PE-wire onto the base body.
- ▶ Locking torque 0,6 Nm +/- 0,2 Nm, drive Phillips PH1



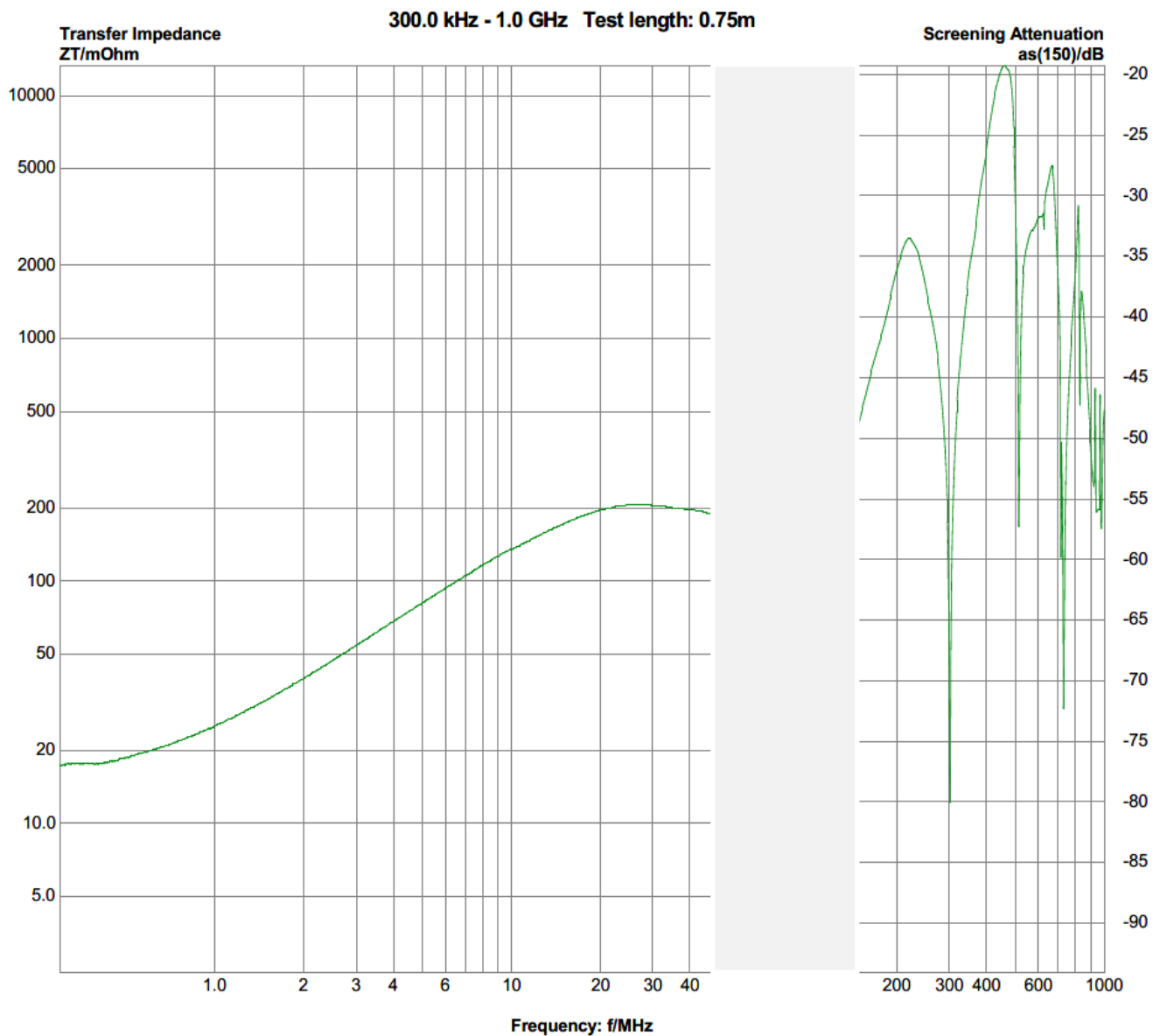
Step 12

- ▶ Put the sheet cramp into the sideward pockets and put the fastening screw on.
- ▶ Locking torque 0,6 Nm $\pm$ 0,2 Nm, drive Phillips PH1



Position	Sheet thickness
1	1 – 2 mm
2	2 – 5 mm
3	5 – 8 mm

ODU-MAC® PUSH-LOCK HOUSING EMC SHIELDING



Test specifications

IEC 62153-4-3 [2013-10]

Measure transfer impedance [mOhm], frequency:

300 kHz – 50 MHz

IEC 62153-4-4 [2015-04]

Measure shielding attenuation [dB], frequency:

150 MHz – 1 GHz

Network Analyzer:

Keysight M9374A

Channel:

2-Port calibrate

Frequency:

0.3 – 1000 MHz (log)

Measurement points:

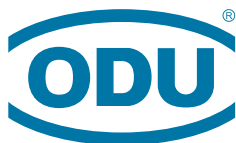
1601

Output Power:

0 dBm

IF-Bandwidth:

0 Hz → Dynamic – 120 dB



A PERFECT ALLIANCE.

ODU GROUP WORLDWIDE



HEADQUARTERS

ODU GmbH & Co. KG

Pregelstraße 11, 84453 Mühldorf a. Inn, Germany

Phone: +49 8631 6156-0, Fax: +49 8631 6156-49, E-mail: sales@odu.de

SALES LOCATIONS

ODU (Shanghai)

International Trading Co., Ltd.

Phone: +86 21 58347828-0

E-mail: sales@odu.com.cn

www.odu.com.cn

ODU Italia S.R.L.

Phone: +39 331 8708847

E-mail: sales@odu-italia.it

www.odu-italia.it

ODU Scandinavia AB

Phone: +46 176 18262

E-mail: sales@odu.se

www.odu.se

ODU (HK) Trading Co., Ltd.

Phone: +852 5439-9036

E-mail: sales@odu.hk

www.odu.hk

ODU Japan K.K.

Phone: +81 3 6441 3210

E-mail: sales@odu.co.jp

www.odu.co.jp

ODU-UK Ltd.

Phone: +44 330 002 0640

E-mail: sales@odu-uk.co.uk

www.odu-uk.co.uk

ODU Denmark ApS

Phone: +45 2233 5335

E-mail: sales@odu-denmark.dk

www.odu-denmark.dk

ODU Korea Inc.

Phone: +82 2 6964 7181

E-mail: sales@odu-korea.kr

www.odu-korea.kr

ODU-USA Inc.

Phone: +1 805 484-0540

E-mail: sales@odu-usa.com

www.odu-usa.com

ODU-France SARL

Phone: +33 1 3935-4690

E-mail: sales@odu.fr

www.odu.fr

ODU Romania Manufacturing SRL

Phone: +40 269 704638

E-mail: sales@odu-romania.ro

www.odu-romania.ro

PRODUCTION AND LOGISTICS SITES

Germany Otto Dunkel GmbH

China ODU (Shanghai) Connectors Manufacturing Co., Ltd.

Mexico ODU Mexico Manufacturing S. de R.L. de C.V.

Romania ODU Romania Manufacturing SRL

USA ODU North American Logistics Inc.



Simply scan the QR code
to download the entire publication.

All dimensions are in mm. Some figures are for illustrative purposes only. Subject to change without notice. Errors and omissions excepted. We reserve the right to change our products and their technical specifications at any time in the interest of technical improvement. This publication supersedes all prior publications. This publication is also available as a PDF file that can be downloaded from www.odu-connectors.com

ODU CM INUE

ODU-MAC® PUSH-LOCK assembly instruction / TI/0220/EN