Safety information

Roxtec recommends that all installations are performed without facility operation. Follow national regulations and installation codes. Any action affecting the routed service should be performed according to manufacturer recommendations.

Roxtec
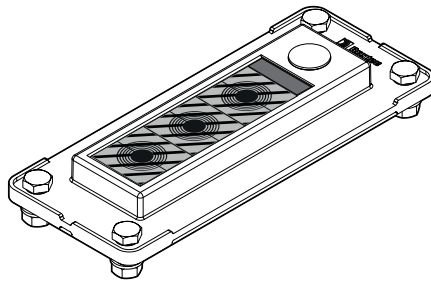
Installation instructions
Roxtec ComSeal™ 10 PE
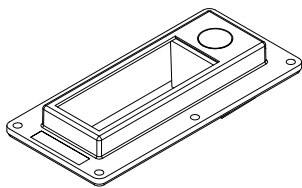## Roxtec ComSeal™ 12 PE
Roxtec ComSeal™ 15 PE
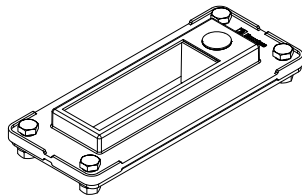## Roxtec ComSeal™ 16 PE
Roxtec ComSeal™ 30 PE
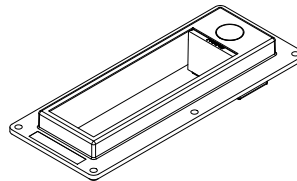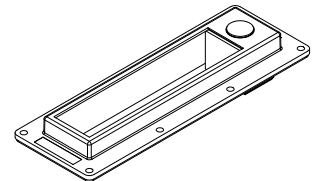## Roxtec ComSeal™ 32 PE
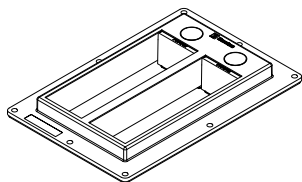
Components

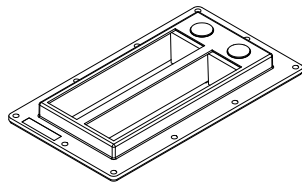Roxtec ComSeal 10 PE frame

Roxtec ComSeal 12 PE frame

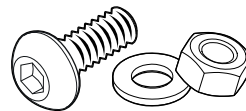Roxtec ComSeal 15 PE frame

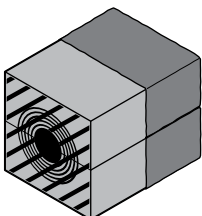Roxtec ComSeal 16 PE frame
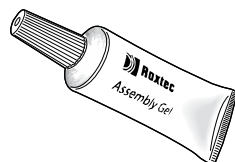

Roxtec ComSeal 30 PE frame
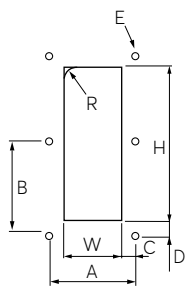

Roxtec ComSeal 32 PE frame
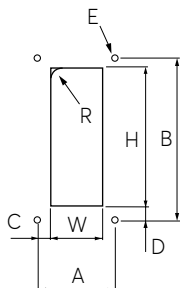

Fasteners

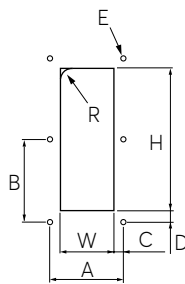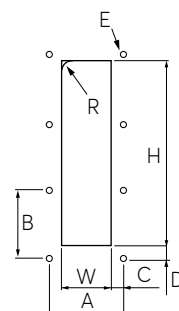Roxtec CM XX/30 PE module
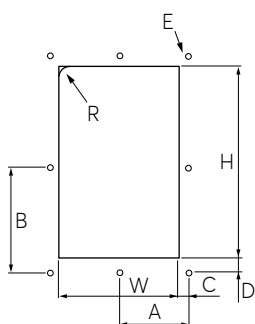

Roxtec Assembly Gel
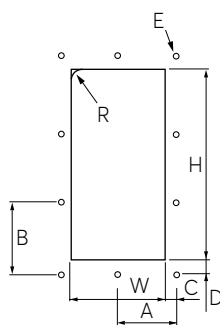
Aperture

ComSeal 10 PE

ComSeal 12 PE
FL 21 compatible

ComSeal 15 PE

ComSeal 16 PE

ComSeal 30 PE

ComSeal 32 PE

|	ComSeal 10 PE	ComSeal 12 PE	ComSeal 15 PE	ComSeal 16 PE	ComSeal 30 PE	ComSeal 32 PE
H	149 (+1/-1)	169 (+1/-1)	195 (+1/-1)	209 (+1/-1)	195 (+1/-1)	209 (+1/-1)
W	56 (+1/-1)	56 (+1/-1)	61 (+1/-1)	56 (+1/-1)	120 (+1/-1)	103 (+1/-1)
A	68.5 (+0.5/-0.5)	62 (+0.5/-0.5)	78.5 (+0.5/-0.5)	68.5 (+0.5/-0.5)	71.5 (+0.5/-0.5)	61.5 (+0.5/-0.5)
B	80.5 (+0.5/-0.5)	193 (+0.5/-0.5)	105.5 (+0.5/-0.5)	73.7 (+0.5/-0.5)	109.5 (+0.5/-0.5)	76.3 (+0.5/-0.5)
C	6.25 (+1/-1)	3 (+1/-1)	9 (+1/-1)	6.25 (+1/-1)	12 (+1/-1)	10 (+1/-1)
D	6 (+1/-1)	12 (+1/-1)	8 (+1/-1)	6 (+1/-1)	12 (+1/-1)	10 (+1/-1)
E ⌀	5.5	9.5	5.5	5.5	5.5	5.5
R max	10	10	5	10	5	10

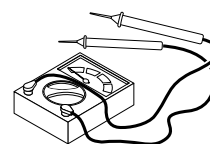## Tools
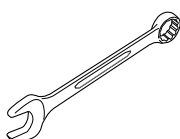
Spanner 13 mm
(not included)
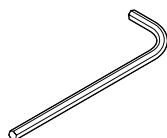
Allen key 3 mm
(not included)
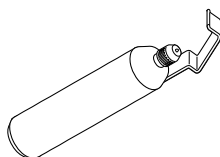
Cable stripper tool.
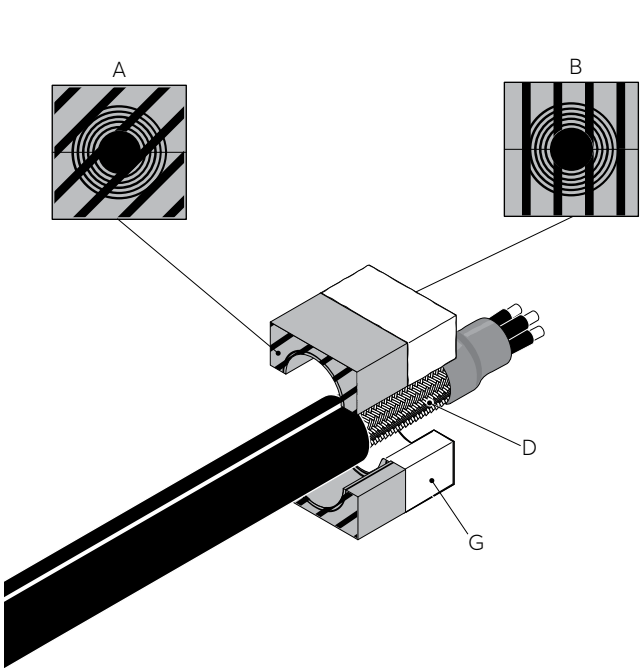Recommended by the
cable manufacturer
(not included)
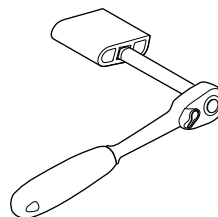
Roxtec
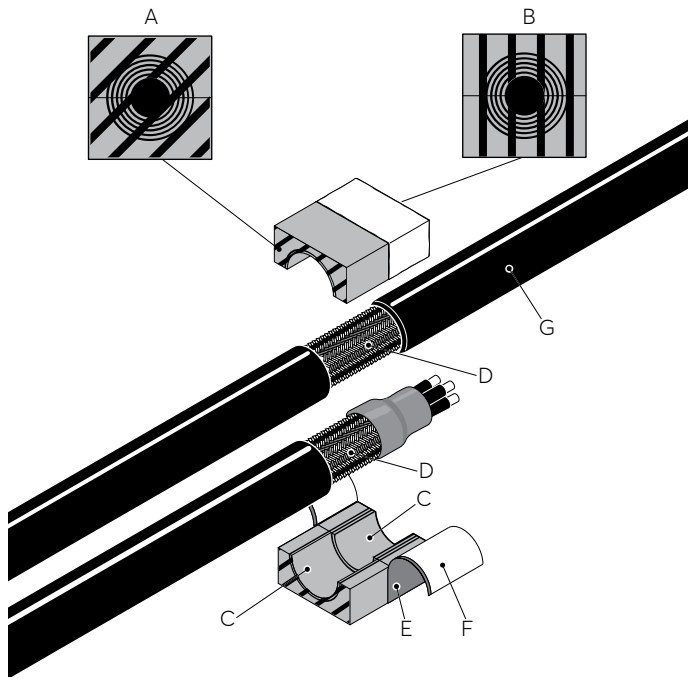pre-compression tool
(not included)

Continuity tester
(not included)

Roxtec CM XX/30 PE module

A: Environmental side
B: Termination/interior side
C: Removable layers
D: Cable shield

E: Plastic film
F: Conductive tape
G: Cable jacket

Roxtec CM XX/30 PE modules
measures in millimeters (mm)

| Module size	For cable outer diameter min-max
CM 15w40/30 PE	3.5-10.5
CM 20/30 PE	4-14.5
CM 20w40/30 PE	3.5-16.5
CM 30w40/30 PE	10-25
CM 40 10-32/30 PE	9.5-32.5
CM 40/30 PE	21.5-34.5
CM 50/30 PE	28-44

Note:
The range of the modules indicates the smallest diameter of the
exposed cable shield to the largest diameter of the cable jacket.
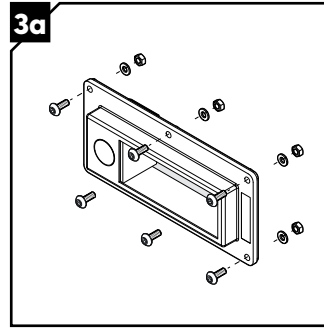Modules with core can be used as spare parts.

Installation

1
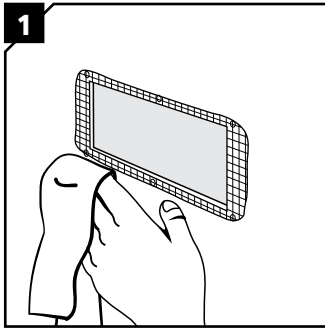
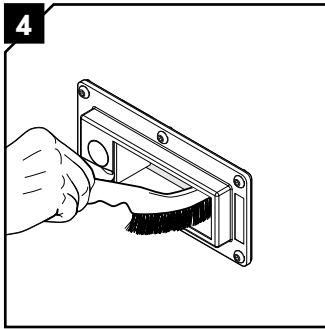Ensure good electrical conductivity between the conductive gasket and mounting surface.

2
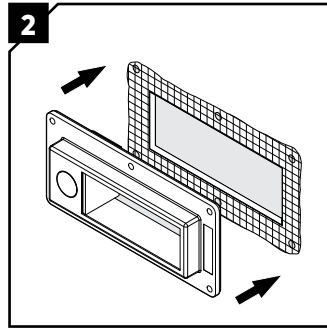
Insert the frame in the opening with the gasket facing the mounting surface. Make sure not to damage the gasket.

3a

Attach the frame using the supplied fasteners.
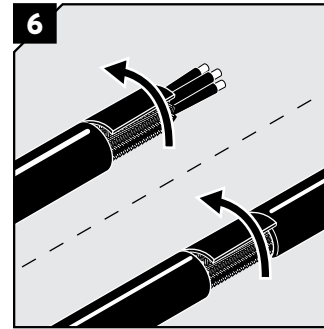**NOTE:** Compress the gasket to maximum 50% of its height.

3b
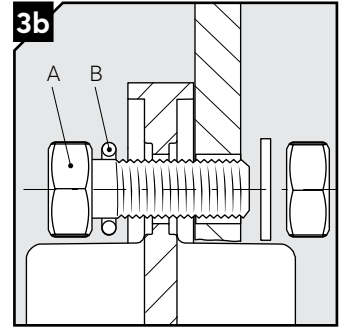
For ComSeal 12 PE, make sure that the O-ring (B) is mounted under the bolt head (A). Use a counter flange for structures thinner than 2 mm.
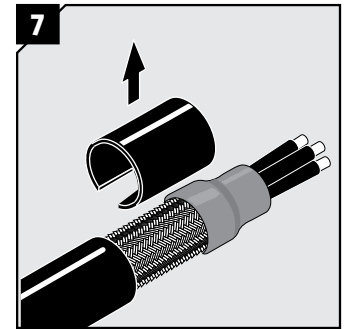
4

Clean the sealing surfaces of the frame to ensure good electrical conductivity.
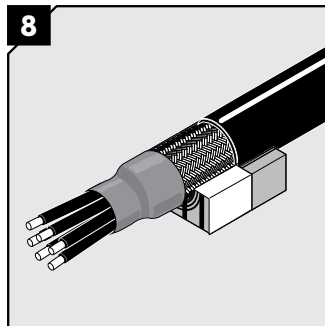
5
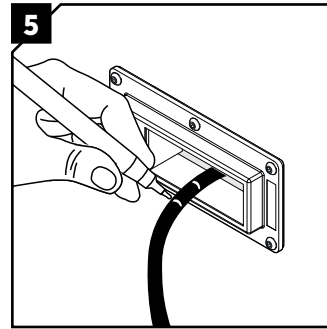
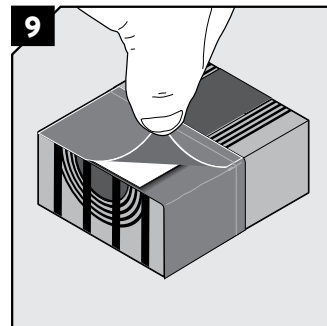Mark where the outer jacket is to be removed to fit the module tape.

6

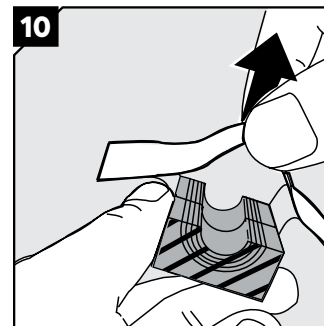Remove the outer jacket and any plastic foil. The cable shield shall be clean and conductive.

7

Secure the end of the cable shield. Suggestions for cable preparations are available on www.roxtec.com.
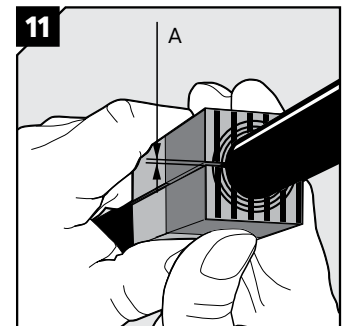
8

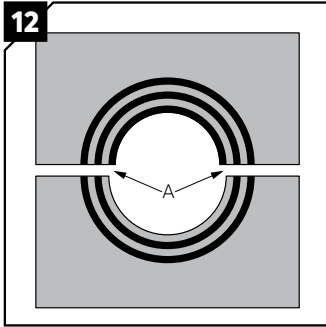Correct placement of cable in the module. The cable shield shall be visible outside the module.

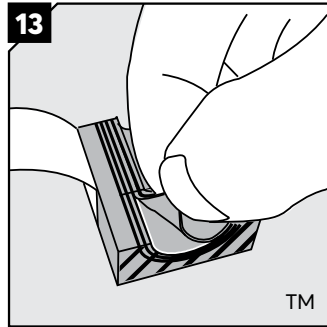**9**

Lift the conductive tape.

10

Remove the protection paper from all modules and fold out the conductive tape.

11

Achieve a gap of 0.1-1.0 mm (A) between the module halves by peeling off layers. The cable shield shall be in contact with the conductive tape.
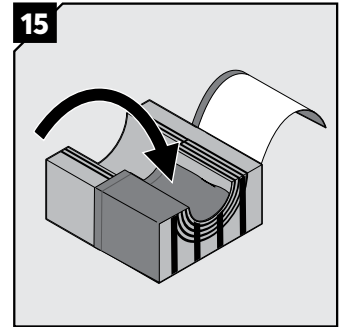
12

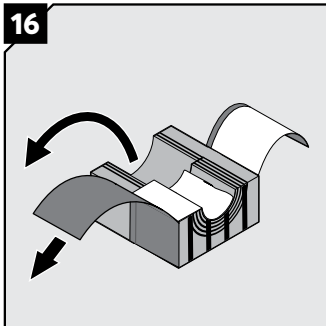The number of layers may not differ (A) by more than one between the corresponding module halves.

13

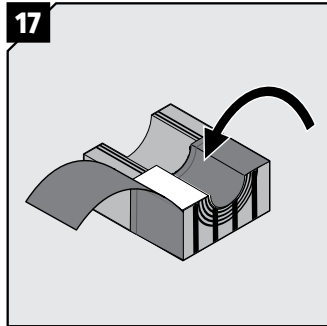TM

Adapt the layers that are in contact with the cable jacket.

14

TM
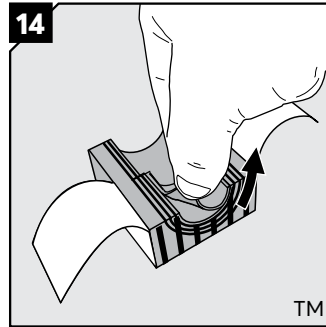
Adapt the layers that are in contact with the cable shield.
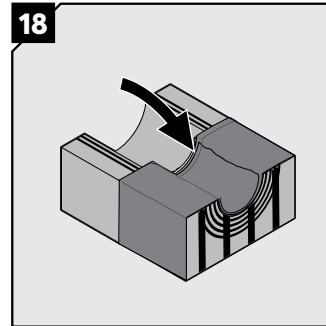
15

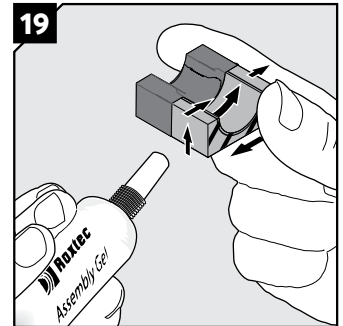Fold the conductive tape tightly inside the module half from one side.

16

Separate the plastic film from the conductive tape and fold it to the side.
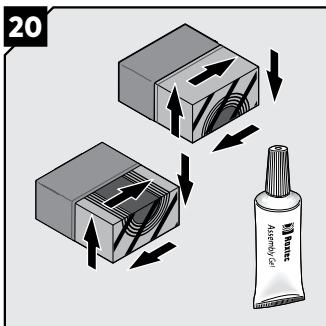
17

Fold the conductive tape on the other side tightly inside the module half.
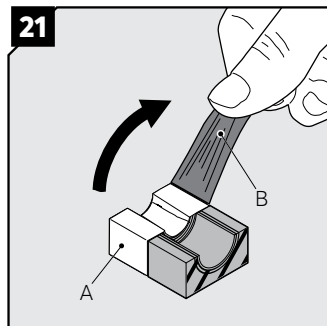
18

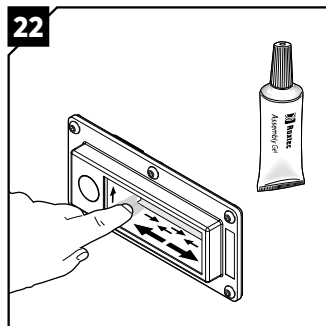Fold the plastic film back inside the module half.

19

Lubricate the sealing surfaces of all modules with Roxtec Assembly Gel. Do not lubricate the plastic film.

20

Lubricate the sealing surfaces of the spare modules. Do not remove the core.
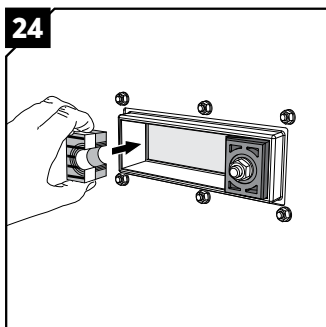
21

Remove the plastic film (B) on all modules. Keep the conductive tape (A) clean.

22

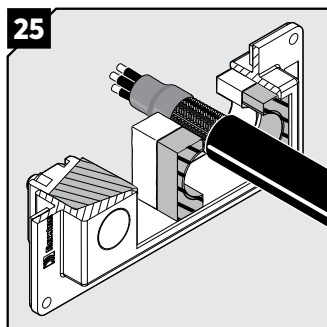Lubricate the inside surfaces of the frame and especially its corners. Lubricate the area that will be in contact with the tape sparsely.

23
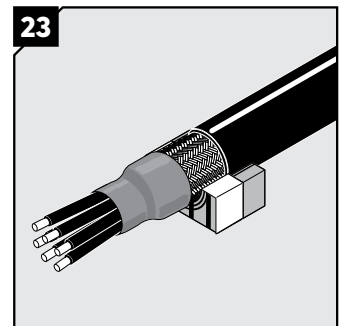
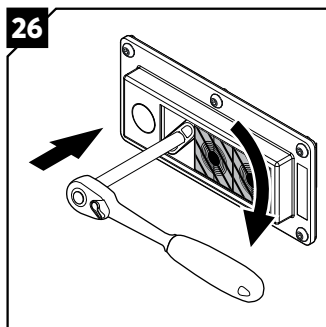When placing cables in modules, the cable shield shall be visible outside the module at the termination side.
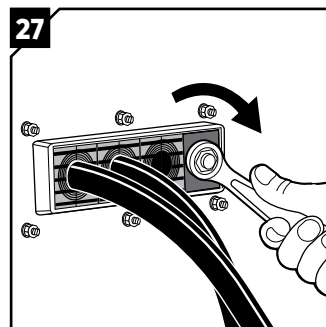
24

Place the modules from the inside of the cabinet. The modules should rest against the edge of the frame.
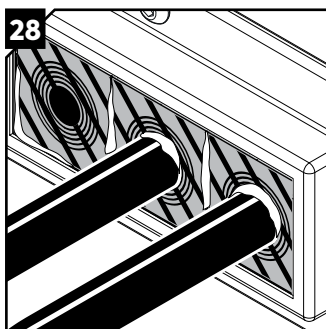
25

Place cables, according to your packing plan, in the module halves. Place corresponding module half on top.
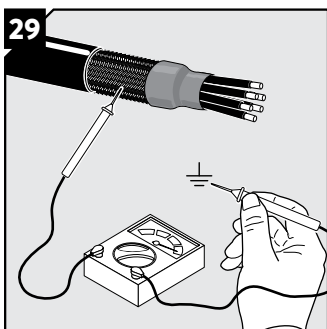
26

Use a Roxtec pre-compression tool to make space for the last module if required.

27

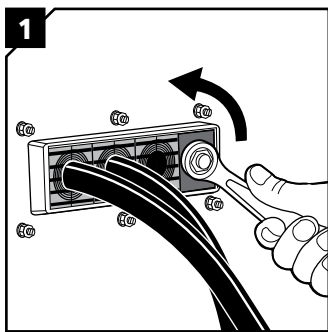Tighten the nut of the compression unit. Maximum torque 10 Nm.

28

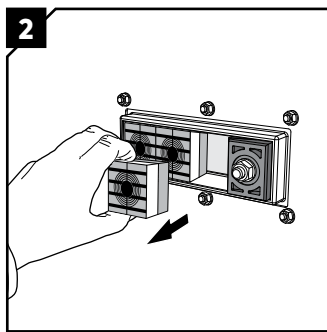Excess assembly gel is a sign of good compression.

29

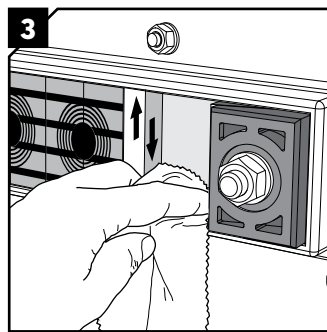Optional: Verify earth continuity from each cable shield to earth. Use a suitable instrument.
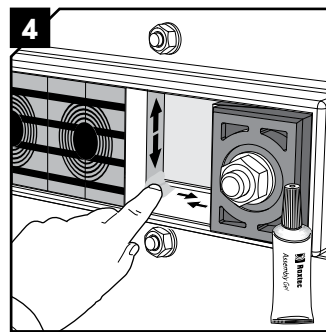
Disassembly and reinstallation

1

Untighten the nut of the compression unit.

2

Remove the modules needed.

3

The inside surfaces of the exposed packing space shall be clean and conductive.

4

Lubricate the inside surfaces, especially in the corners. Continue the reinstallation.

Note

◉ Integrated environmental sealing system for potential equalization applications, for use with shielded/armored cables.

◉ For optimum reliability, wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.

◉ To be used with CM PE 30 mm depth modules.

◉ To simplify installation of Roxtec ComSeal™ 30 PE and 32 PE, we recommend filling both openings before tightening the compression units.

◉ Cables shall go straight through the frame.

◉ Protection paper and plastic film must be removed from all modules.

◉ If the conductive tape is damaged, the module must be replaced.

◉ Approvals or certificates may include amendments or limitations related to this application.

◉ The latest version of this and related documents are found at roxtec.com.

DISCLAIMER

))) Roxtec