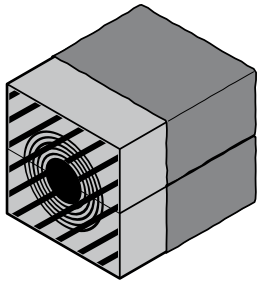
Safety information

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.

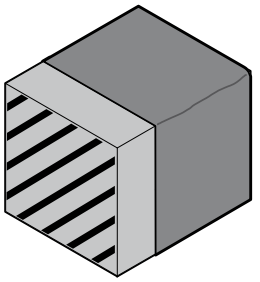
Roxtec

Installation instructions Roxtec CM PE systems

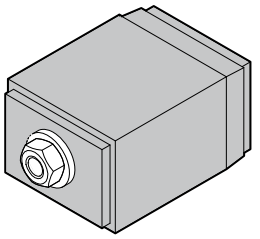
Components



Roxtec CM PE module



Roxtec CM PE solid module



Roxtec CM PE compression unit (where applicable)

Roxtec Lubricant or Roxtec Assembly Gel

Roxtec CM PE modules

measures in millimeters (mm)

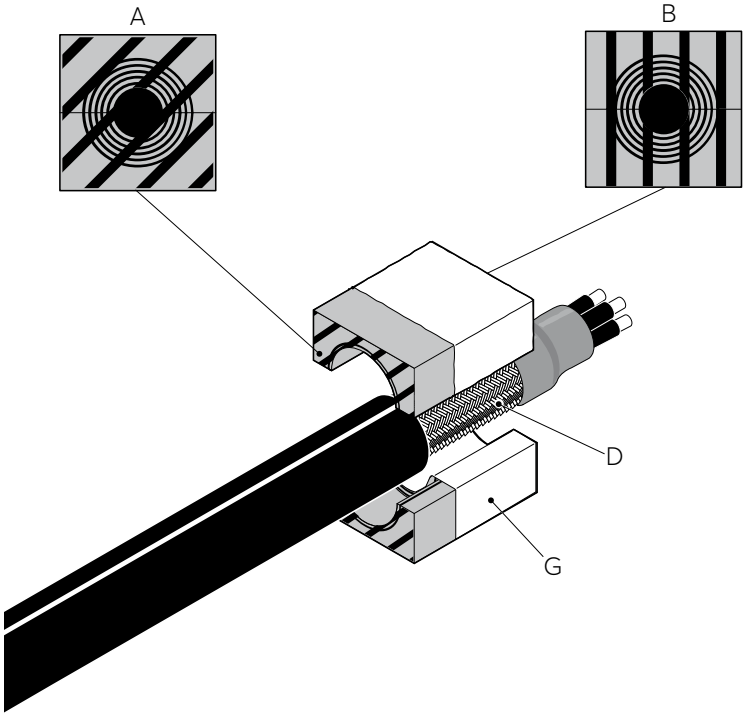
Module size	For cable outer diameter min-max
CM 15w40 PE	3.5-10.5
CM 20 PE	4-14.5
CM 20w40 PE	3.5-16.5
CM 30 PE	10-25
CM 30w40 PE	10-25
CM 40 10-32 PE	9.5-32.5
CM 40 PE	21.5-34.5

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.

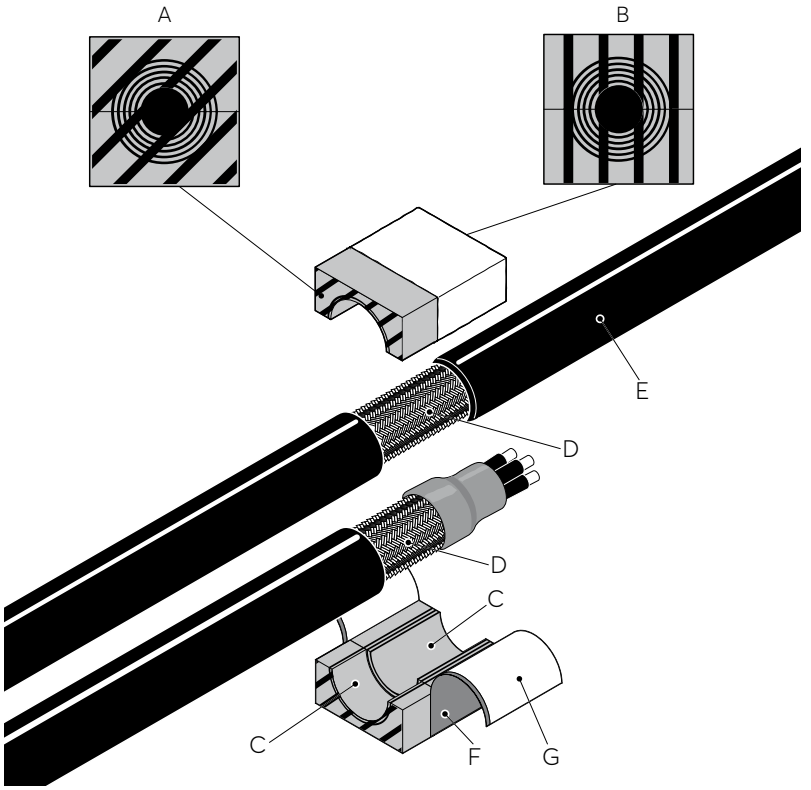
Roxtec CM PE solid modules

Module size
CM 5w40/0 PE
CM 10w40/0 PE
CM 20/0 PE
CM 40/0 PE

Roxtec CM PE module



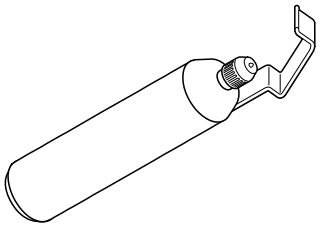
A: Environmental side
B: Termination/interior side
C: Removable layers
D: Cable shield



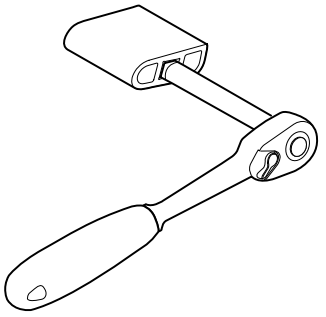
E: Cable jacket
F: Plastic film
G: Conductive tape

Recommended tools

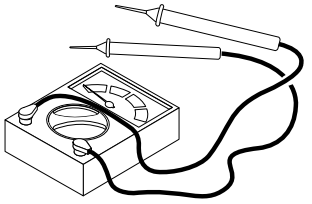
(not included)



Cable stripper tool.
Recommended by the cable manufacturer

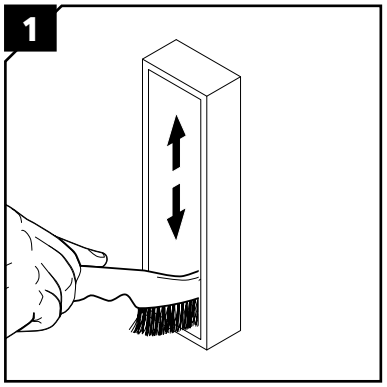


Roxtec
pre-compression tool

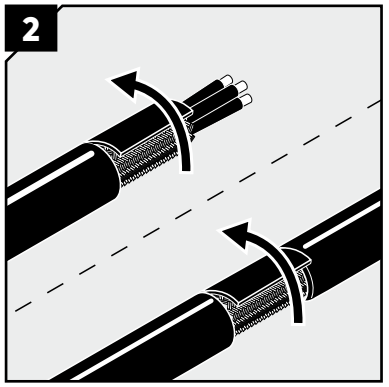


Continuity tester

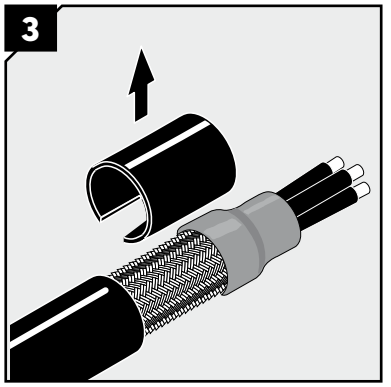
Installation



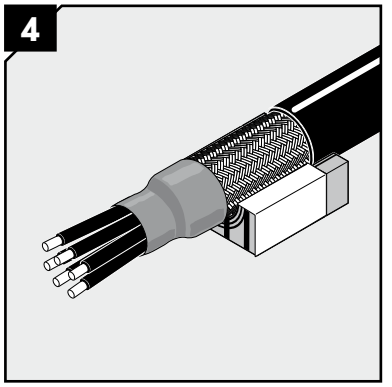
All frames must be clean and have continuous electrical contact with the structure. Conductive gaskets are available.



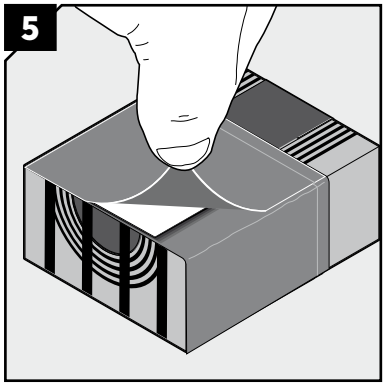
Remove the outer jacket and any plastic foil. The cable shield shall be clean and conductive.



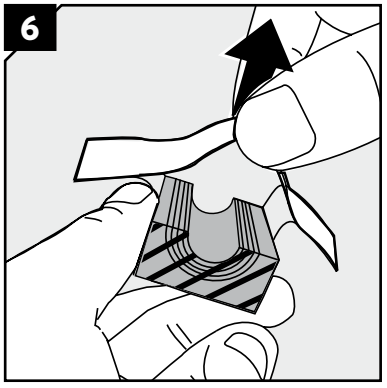
Secure the end of the cable shield. Suggestions for cable preparations are available on www.roxtec.com.



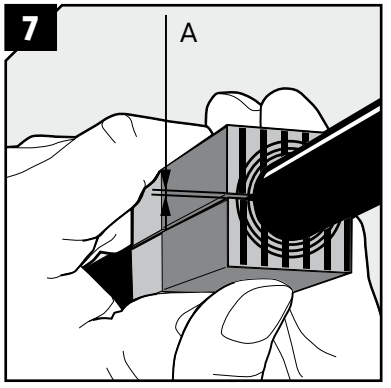
Correct placement of cable in a CM PE module. The cable shield shall be visible outside the module.



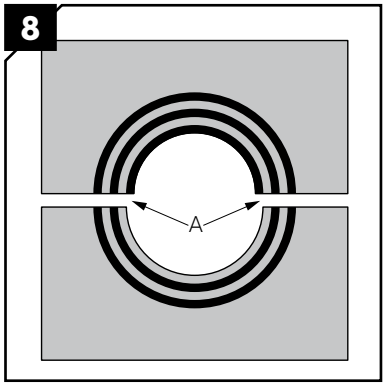
Lift the conductive tape.



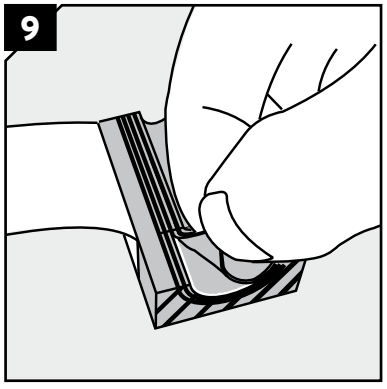
Remove the protection paper from all modules and fold out the conductive tape.



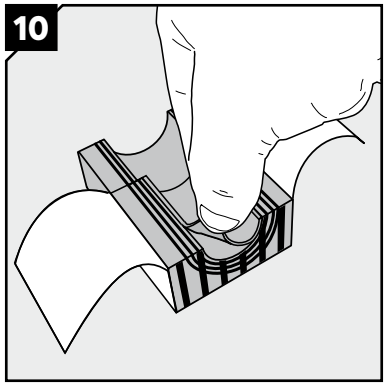
Achieve a gap of 0.1-1.0 mm (A) between the module halves by peeling off layers. The cable shield shall be in contact with the conductive tape.



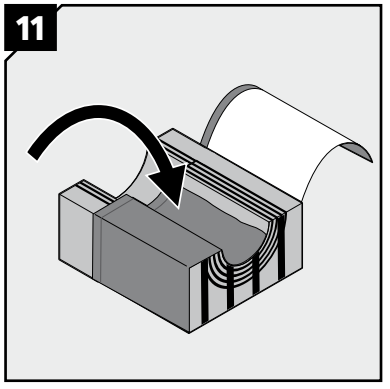
The number of layers may not differ (A) by more than one between the corresponding module halves.



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

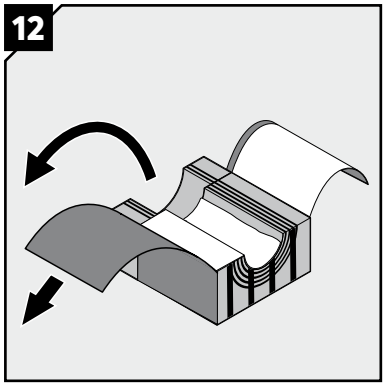


Adapt the layers that are in contact with the cable shield.



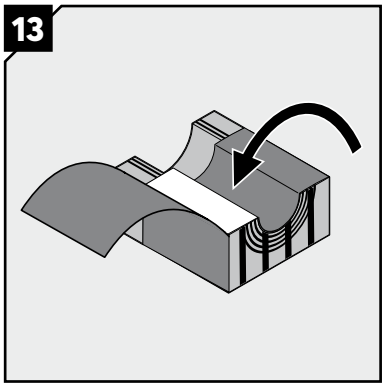
Fold the conductive tape tightly inside the module half from one side.

12



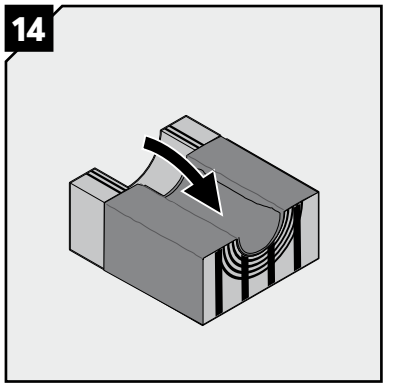
Separate the plastic film from the conductive tape and fold it to the side.

13



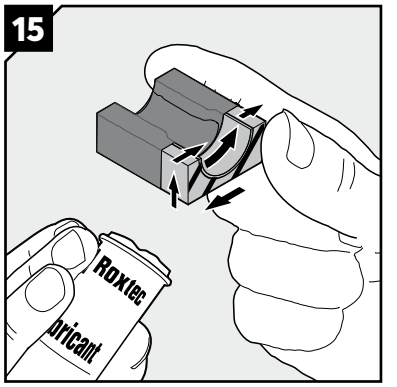
Fold the conductive tape on the other side tightly inside the module half.

14



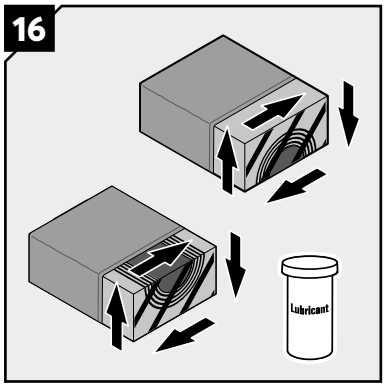
Fold the plastic film back inside the module half.

15



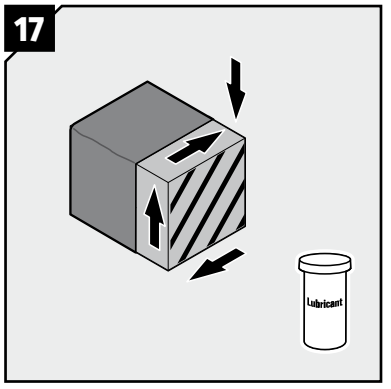
Lubricate the sealing surfaces of all modules. Do not lubricate the plastic film.

16



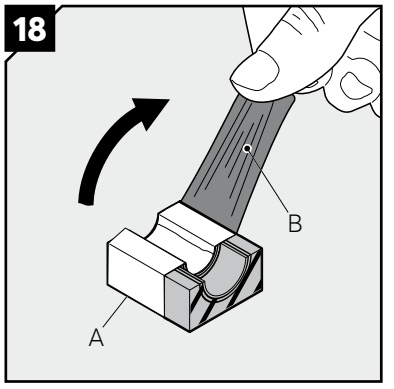
Lubricate the sealing surfaces of the spare modules. Do not remove the core.

17



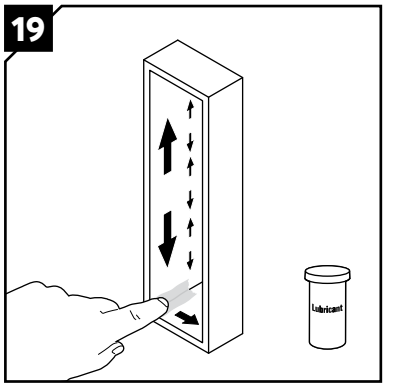
Lubricate the sealing surfaces of the solid modules.

18



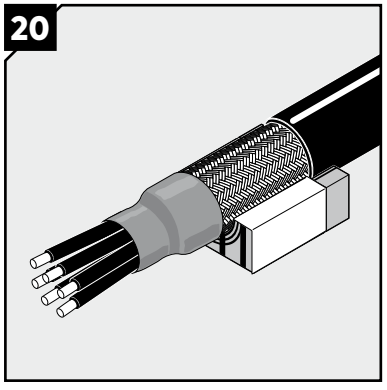
Remove the plastic film (B) on all modules. Keep the conductive tape (A) clean.

19



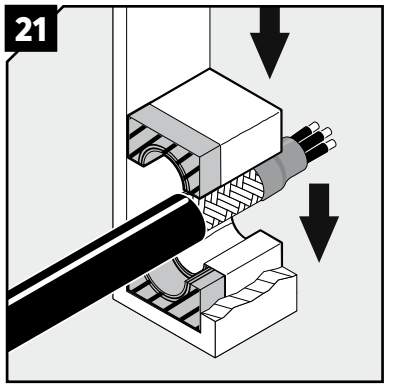
Lubricate the inside surfaces of the frame and especially its corners. Lubricate the area that will be in contact with the tape sparsely.

20



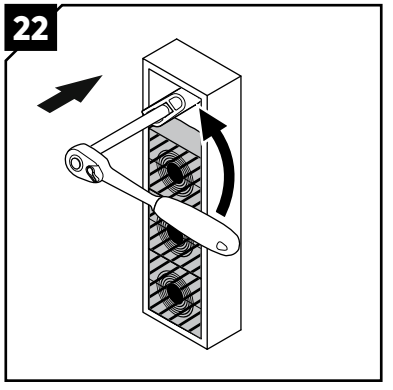
When placing cables in modules, the cable shield shall be visible outside the module at the termination side.

21



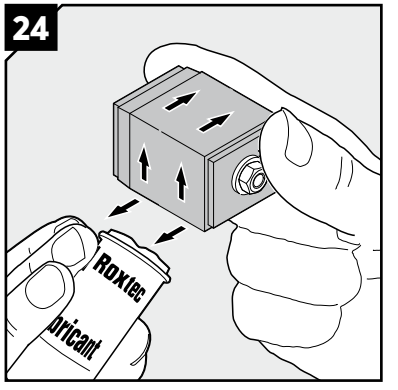
Place cables, according to your packing plan, in the module halves. Place corresponding module half on top.

22

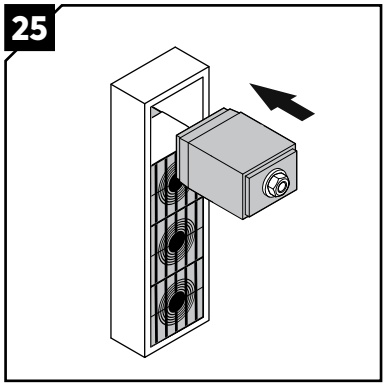


Use a Roxtec pre-compression tool to make space for the compression unit if required.

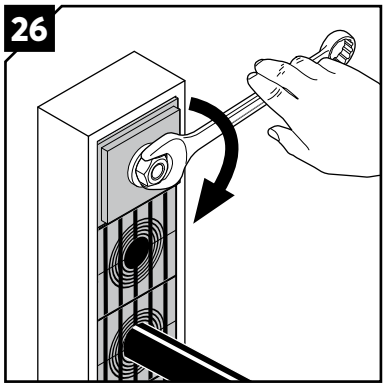
24



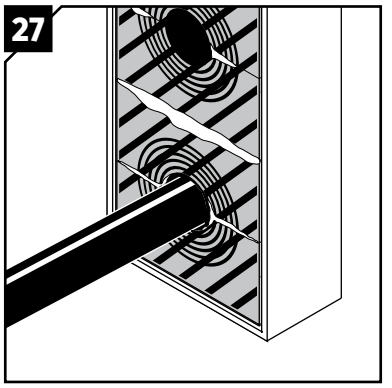
Lubricate the compression unit.



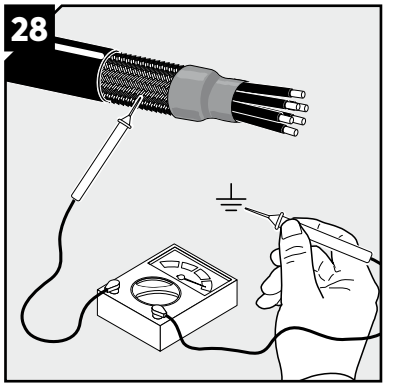
Insert the compression unit until stop.



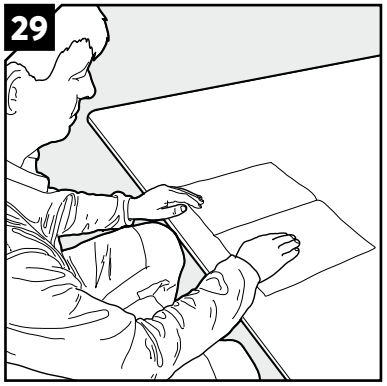
Tighten the nut of the compression unit. See the installation instructions for your transit solution for recommended torque.



Excess lubricant is a sign of good compression.

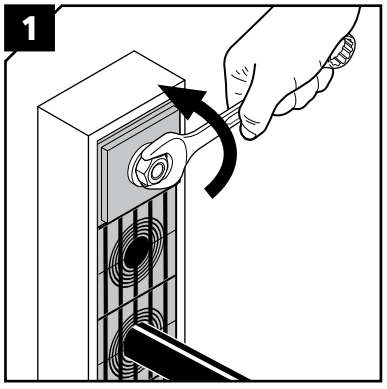


Optional: Verify earth continuity from each cable shield to earth. Use a suitable instrument.

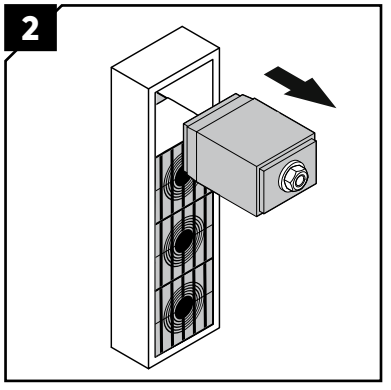


Complete the installation by following the installation instructions for your transit solution.

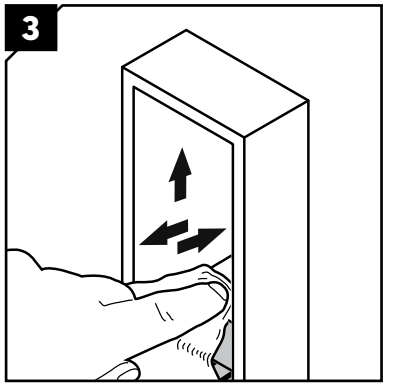
Disassembly and reinstallation



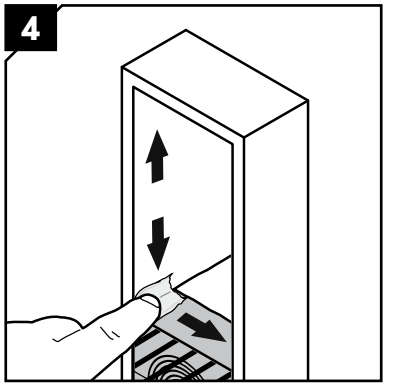
Untighten the nut of the compression unit.



Remove the compression unit and modules required.



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



Lubricate the inside surfaces, especially into 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 or pipes to strain or pressure.
- Corrosion preventing primer must be removed to achieve electrical conductivity, where applicable.
- Protection paper and plastic film must be removed from all modules.
- Cables shall go straight through the frame.
- 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.

Article number: 185300 Document number: DOC-002037 revision B

Disclaimer

"The Roxtec cable entry sealing system ("the Roxtec system") is a modular-based system of sealing products consisting of different components. Each and every one of the components is necessary for the best performance of the Roxtec system. The Roxtec system has been certified to resist a number of different hazards. Any such certification, and the ability of the Roxtec system to resist such hazards, is dependent on all components that are installed as a part of the Roxtec system. Thus, the certification is not valid and does not apply unless all components installed as part of the Roxtec system are manufactured by or under license from Roxtec ("authorized manufacturer"). Roxtec gives no performance guarantee with respect to the Roxtec system, unless (I) all components installed as part of the Roxtec system are manufactured by an authorized manufacturer and (II) the purchaser is in compliance with (a), and (b), below.
(a) During storage, the Roxtec system or part thereof, shall be kept indoors in its original packaging at room temperature.
(b) Installation shall be carried out in accordance with Roxtec installation instructions in effect from time to time.

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