**Aperture dimensions, conductive area and max wall thickness**

**Disassembly**
Reverse order (of the installation instructions).

**Note**
- For optimum reliability, wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.
- To be used with: CM ES or CM PE components.
- Cables shall go straight through the frame.
- Total packing space for CF 8: 40x80 mm (1.574"x3.149"), CF 32: 2x40x160 mm (2x1.574"x6.299")
**Installation**

1. Insert the modules around the cables from the inside of the cabinet.

2. Insert the frame from the outside of the opening.

3. Insert the counter frame from the inside of the opening.

4. Fasten the frame by tightening the special nuts with an allen key.

5. Insert all the cables.

6. Mark where the outer sheath is to be removed to fit the tape position.

7. Remove the outer sheath to uncover the conductive surface. Remove any protection tape or plastic.

8. Lubricate the frame corners and areas that will be in contact with the rubber of the modules. Do not lubricate the areas that will be in contact with the tape.

9. Lubricate sparsely the front rubber area of the C Compression unit ES on all sides. Avoid lubricant on the conductive rubber. This is important for maintaining the EMC performance of the seal.

10. Gently insert the C Compression IP/NEMA sparsely on all sides.

11. Gently insert the compression unit.

12. Tighten the compression unit to seal the frame. Recommended torque 8-12 Nm.

Please see next page on how to adapt the Roxtec CM ES or CM PE modules.
CM ES

1. Remove the protection paper from the modules and fold back the tape.

2a. Adapt outer layers to cable. (Fig 11:A)

2b. Adapt inner layers to cable screen. (Fig 11:B)

2c. Adapt vertical screen to cable screen. (Fig 11:C)

3. Test with a cable. Achieve a gap of 0.1-1.0 mm between the module halves. If not, repeat 2a-c. The halves may not differ by more than one layer. Make sure the screen is in good contact with the module.

CM PE

1. Remove the protection paper from the modules and fold back the tape.

2a. Adapt outer layers to cable. (Fig 13:A)

2b. Adapt inner layers to cable screen. (Fig 13:B)

3. Test with a cable. Achieve a gap of 0.1-1.0 mm between the module halves. If not, repeat 2a-b. The halves may not differ by more than one layer. Make sure the screen is in good contact with the module.

- Minimum accommodation diameter of the module refers to the minimum cable screen diameter.
- Maximum accommodation diameter of the module refers to the maximum cable sheath diameter.
**CM ES/PE continued**

1a. Fold the adhesive tape tightly inside the module half from one side along the inner layers.

1b. Lift the plastic film from the folded side.

1c. Fold the tape on the other side tightly inside the module half. There must be no air-pockets.

1d. Fold the plastic film back inside the module half.

2. Lubricate all modules sparsely with Roxtec Lubricant on inside and outside rubber surfaces only. Do not lubricate the film.

3. Remove the plastic film. Keep the tape clean. **Note:** Plastic must be removed on spares also.

4. Continue to installation instructions for your frame.

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**Installation tools**

In order to further simplify installation, we provide tools for pre-compression of the modules in the frame. For more information about Roxtec tools, please visit www.roxtec.com.

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**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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