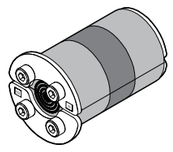
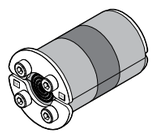
Installation instructions
Roxtec RS ES seal



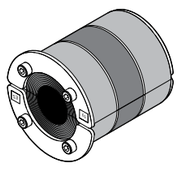
Safety information

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.

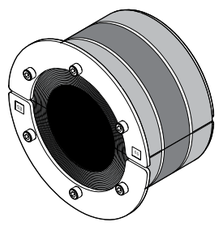
Components



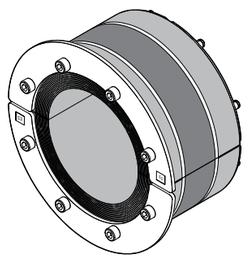
Roxtec RS 25-31 ES



Roxtec RS 43-68 ES



Roxtec RS 75-125 ES



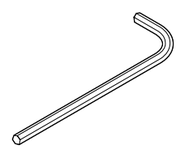
Roxtec RS 150 ES WOC

Roxtec Lubricant

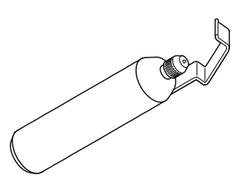
Technical data

Name	Aperture dimension Ø (mm)	For cable/pipe Ø (mm)	Torque (Nm)	Tool size (mm)
RS 25 ES	25 – 26	3.6 – 12	~ 1	2.5
RS 31 ES	31 – 32	4 – 17	~ 1	2.5
RS 43 ES	43 – 45	4 – 23	~ 4	4
RS 50 ES	50 – 52	8 – 30	~ 4	4
RS 68 ES	68 – 70	26 – 48	~ 4	4
RS 75 ES	75 – 77	24 – 54	~ 4	4
RS 100 ES	100 – 102	48 – 70	~ 4	4
RS 125 ES	125 – 127	66 – 98	~ 7	5
RS 150 ES	150 – 152	93 – 119	~ 7	5

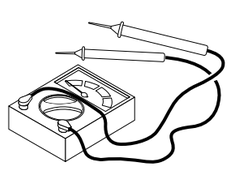
Tools



Allen key (not included)

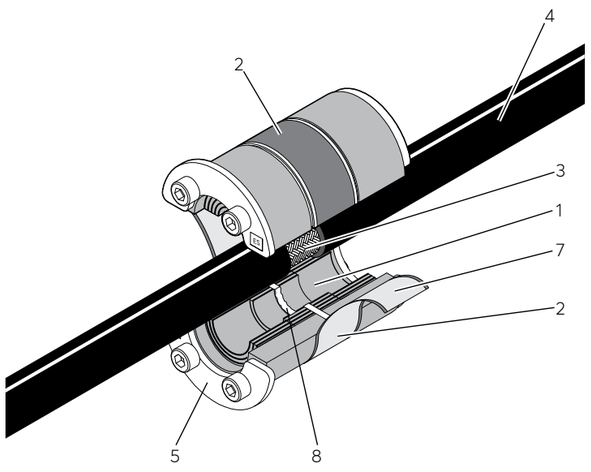


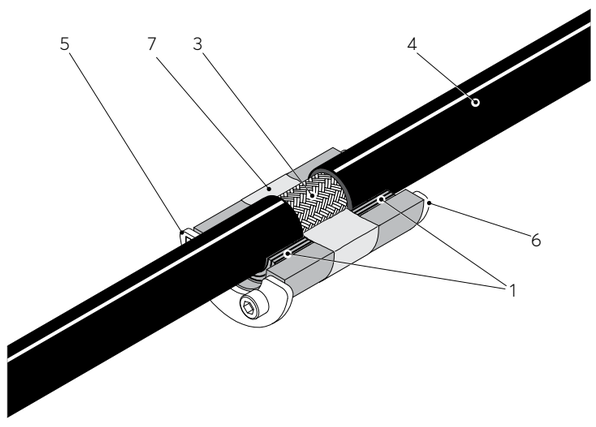
Cable stripper tool, recommended by the cable manufacturer (not included)



Continuity tester (not included)

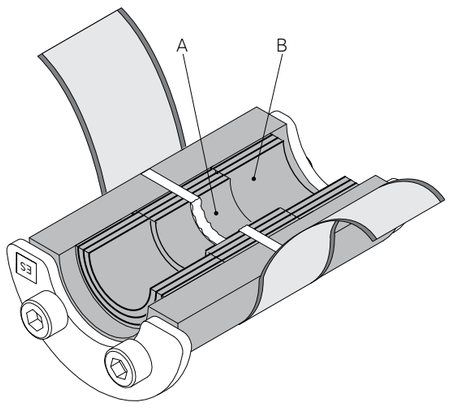
Product description





1 Removable layers
2 Plastic film
3 Cable shield
4 Cable jacket
5 Front fittings
6 Rear fittings
7 Conductive tape
8 ES shield

Cable range

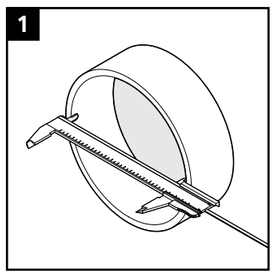


The range of the modules indicates the smallest diameter of the exposed cable shield (A) to the largest diameter of the cable jacket (B). Seals with core can be used to provide spare capacity.

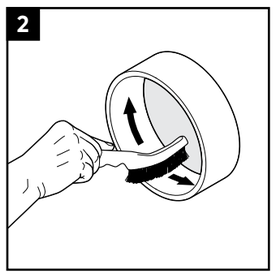
Note

- Integrated environmental sealing system for shielded applications. For use with shielded cables.
- For optimum reliability, wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.
- Cores or cables/pipes must be present in all seals.
- Corrosion preventing primer must be removed to achieve electrical conductivity, where applicable.
- 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.

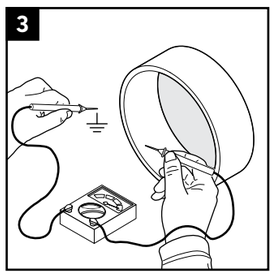
Installation



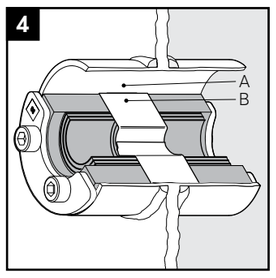
Make or verify an aperture.



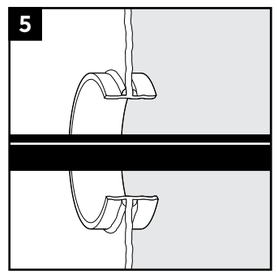
Clean the aperture.



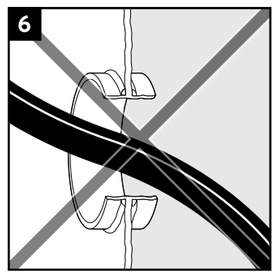
The sleeve must have electrical contact with the potential equalization bar.



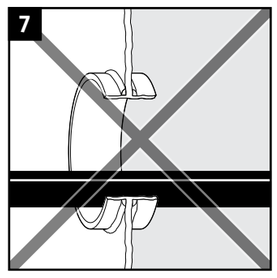
There shall be electrical contact between the inner surface of the sleeve (A) where the tape is situated and the tape of the seal (B).



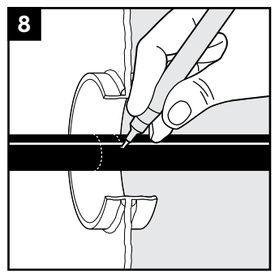
The cable shall go straight and centered through the sleeve.



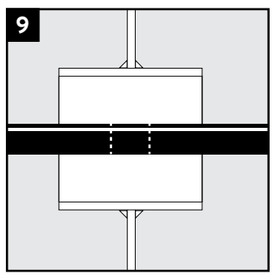
Not acceptable.



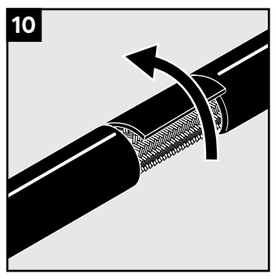
Not acceptable.



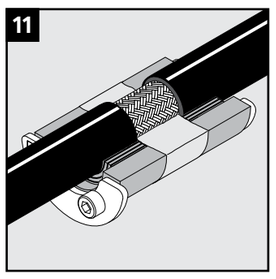
On the cable, mark where the cable jacket is to be removed.



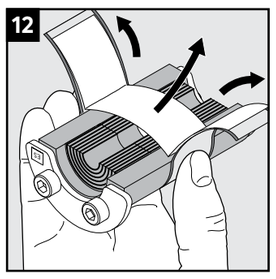
Make sure that the markings on the cable are situated in the center of the sleeve.



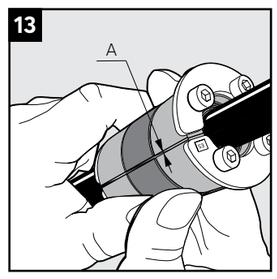
Remove the outer jacket and any plastic foil. The cable shield shall be clean and conductive.



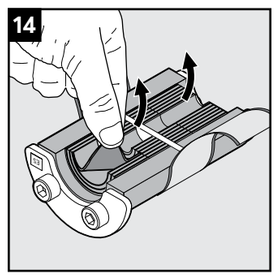
Correct placement of a cable.



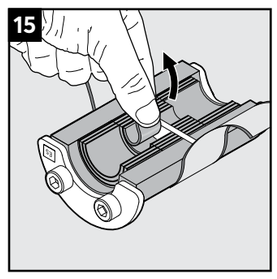
Fold back the tape and remove the protection paper. Do this for spare seals as well.



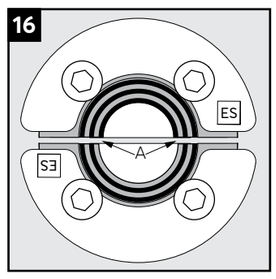
Achieve a gap of 0.1-1.0 mm (A) between the two halves by peeling off layers. The cable shield shall be in contact with the conductive tape.



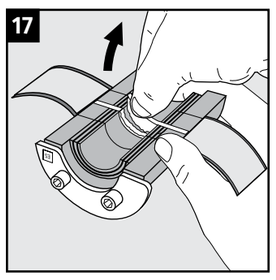
Adapt the layers that are in contact with the cable jacket.



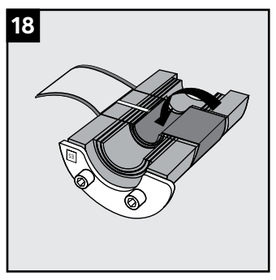
Adapt the layers that are in contact with the cable shield.



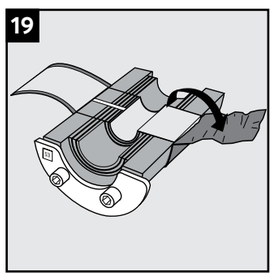
The number of layers must not differ (A) by more than one between the corresponding halves.



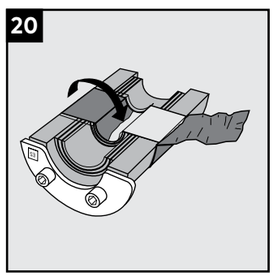
Adapt the vertical ES shield to the cable shield.



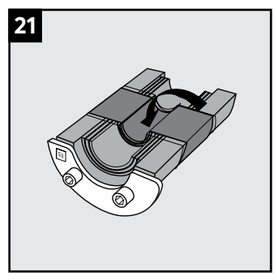
Fold the tape tightly inside the seal.



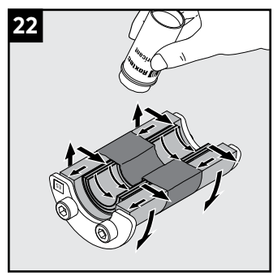
Lift the plastic film from the folded side.



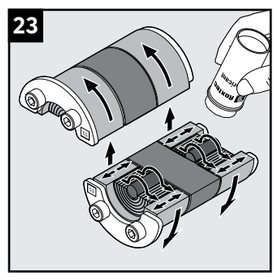
Fold the tape on the other side tightly inside the sealing half.



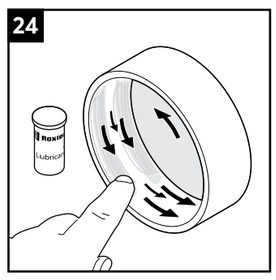
Fold the plastic film back inside the sealing half.



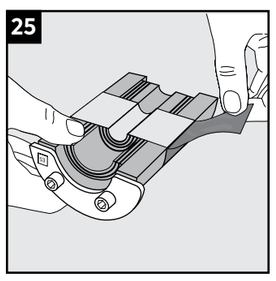
Lubricate the sealing surfaces. Do not lubricate the plastic film.



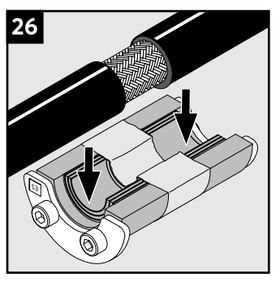
Lubricate the sealing surfaces of any spare seal. Do not remove the core.



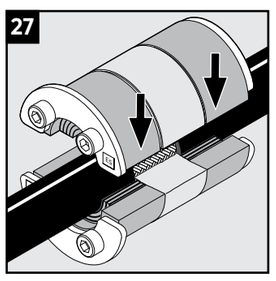
Lubricate the inside surfaces of the sleeve. Lubricate the area that will be in contact with the tape sparsely.



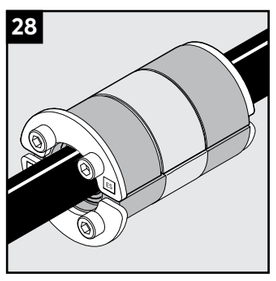
Remove the plastic film. Keep the conductive tape clean.



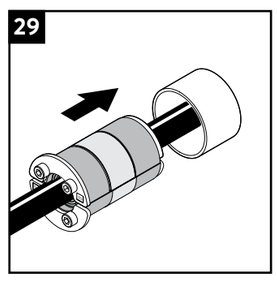
Place the cable in the sealing half.



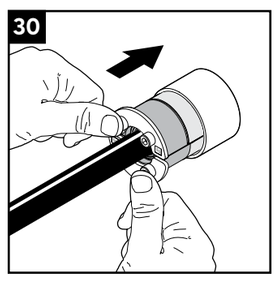
Assemble the seal around the cable.



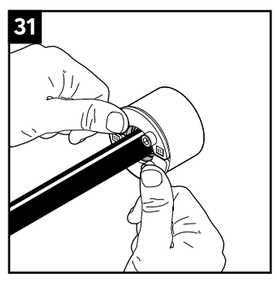
Verify the gap between the seal halves.

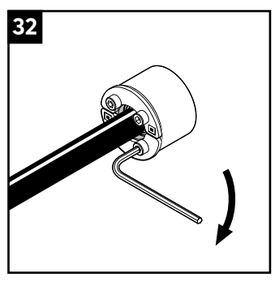


Insert the seal into the sleeve.

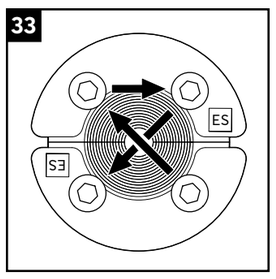


Do not damage the tape.

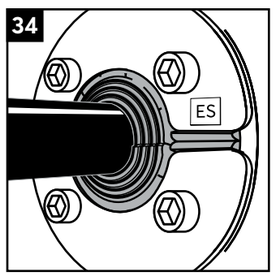




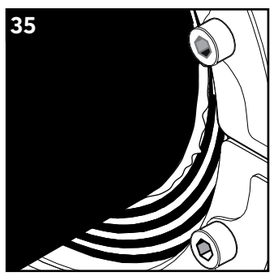
Tighten the screws crosswise in small steps to the specified torque.



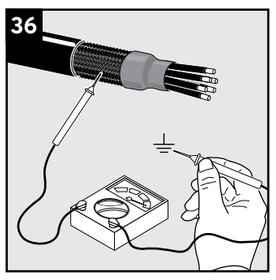
Untighten the screws crosswise in small steps.



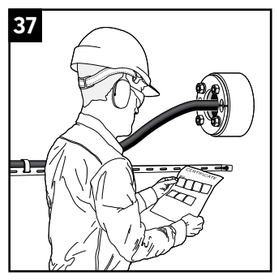
The seal is compressed when the rubber bulges between the fittings.



Excess lubricant is a sign of good compression.

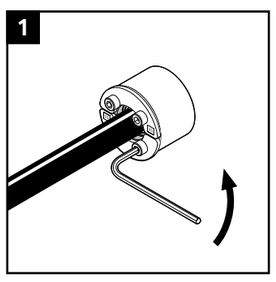


Optional: Verify earth continuity from the cable shield to earth. Use a suitable instrument.

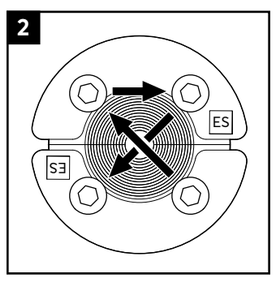


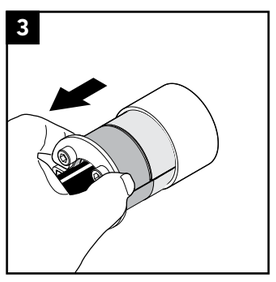
Make a final check! Different approvals or certificates may include amendments or limitations related to this application.

Disassembly and reinstallation

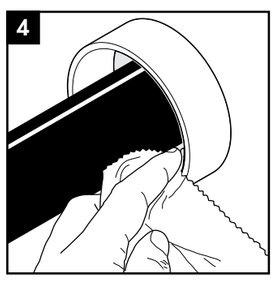


Untighten the screws crosswise in small steps.





Remove the seal from the sleeve.



Clean the sleeve and continue the reinstallation.

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.

The product information provided by Roxtec does not release the purchaser of the Roxtec system, or part thereof, from the obligation to independently determine the suitability of the products for the intended process, installation and/or use.
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