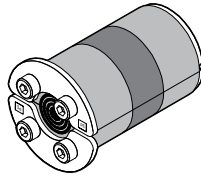# Roxtec

Installation instructions
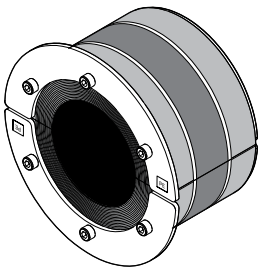# Roxtec RS PE seal

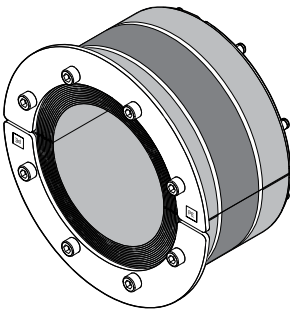## Components
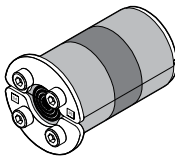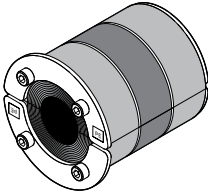
Roxtec RS 25-31 PE	Roxtec RS 43-68 PE	Roxtec RS 75-125 PE	Roxtec RS 150 PE WOC	Roxtec Lubricant

Technical data

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

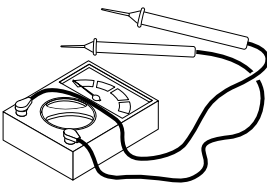## Tools
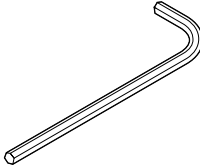
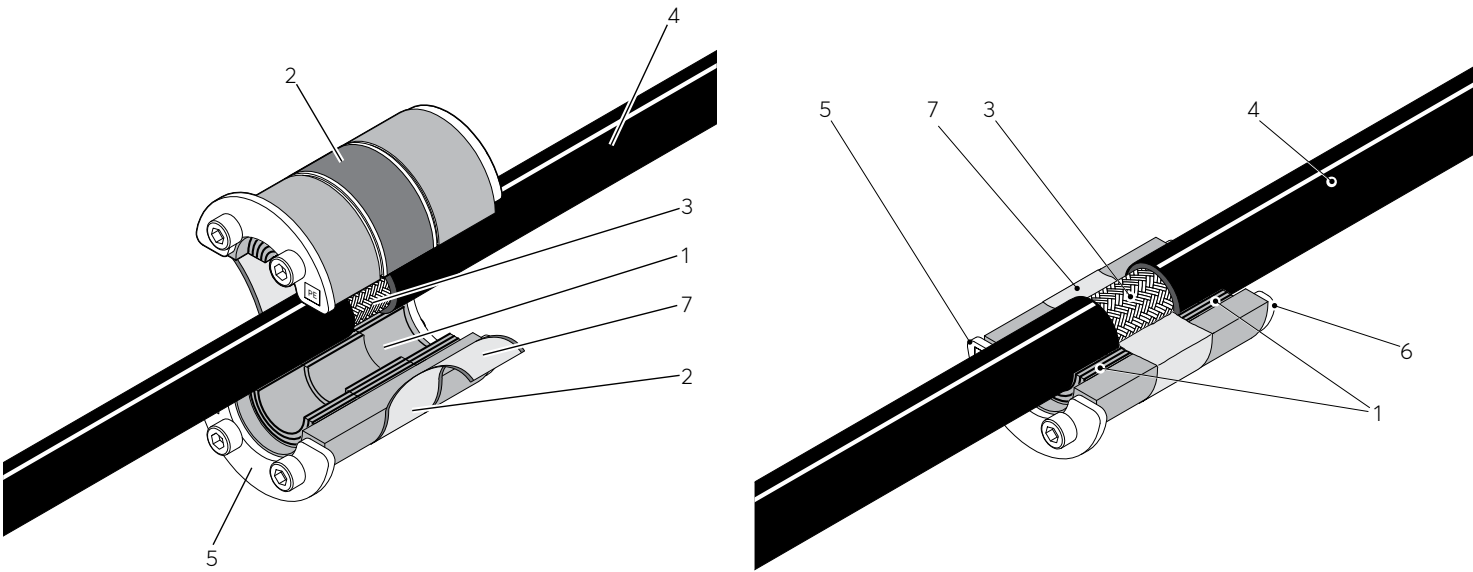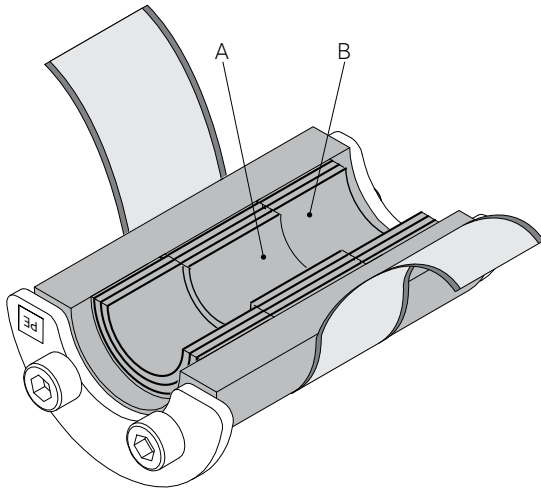|		
Allen key (not included)	Cable stripper tool, recommended by the cable manufacturer (not included)	Continuity tester (not included)
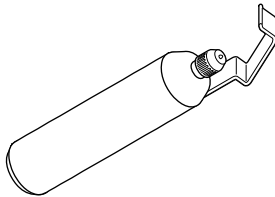
Product description

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

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.
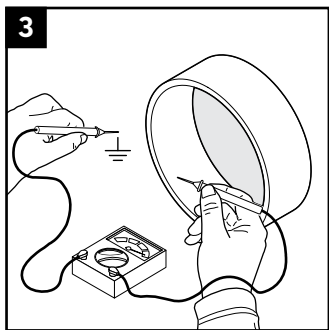- The latest version of this and related documents are found at roxtec.com.
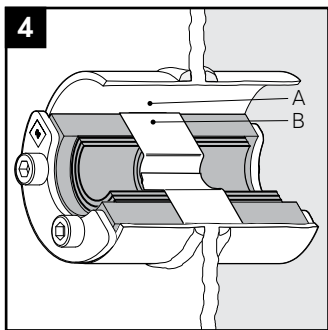
Installation
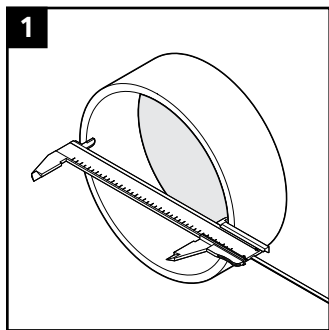
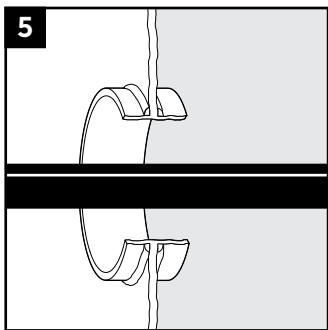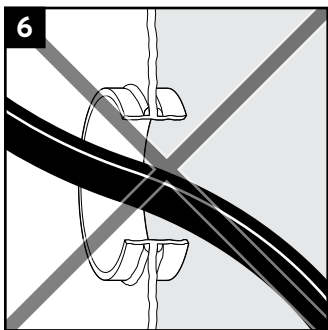**1** Make or verify an aperture.
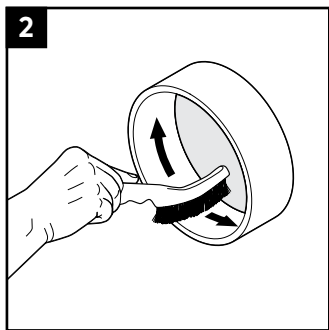
2 Clean the aperture.

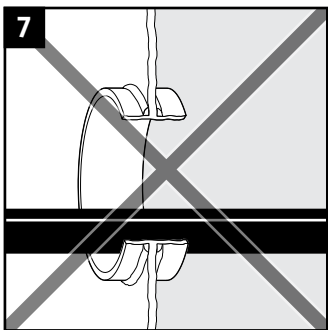**3** The sleeve must have electrical contact with the potential equalization bar.

4 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).
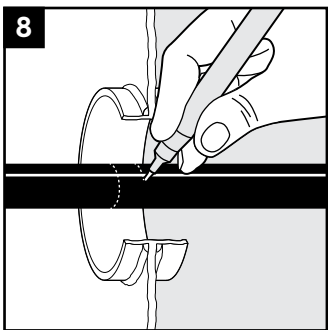
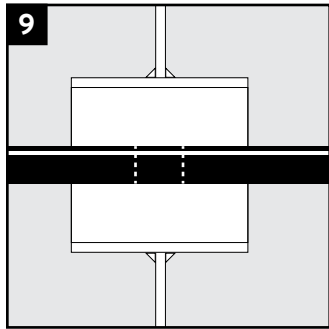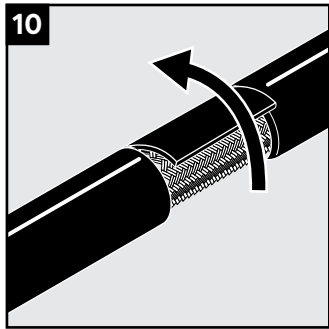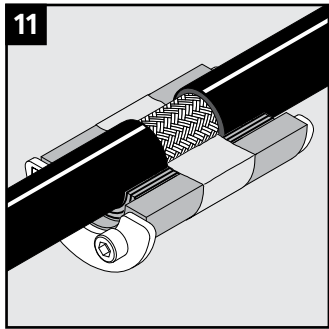**5** The cable shall go straight and centered through the sleeve.

6 Not acceptable.

7 Not acceptable.
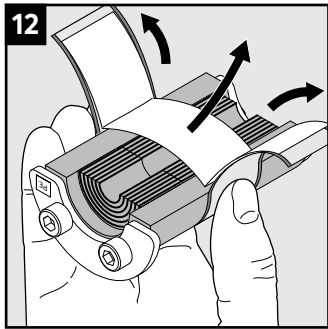
8 On the cable, mark where the cable jacket is to be removed.

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

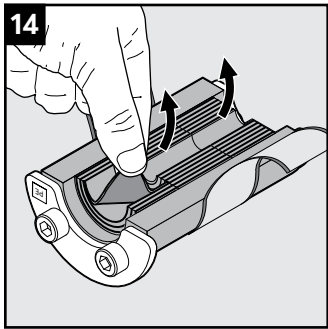**10** Remove the outer jacket and any plastic foil. The cable shield shall be clean and conductive.

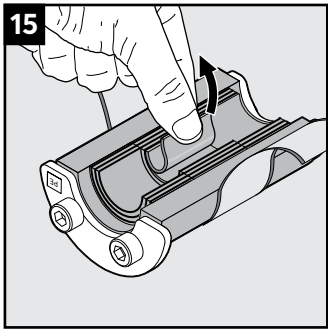**11** Correct placement of a cable.

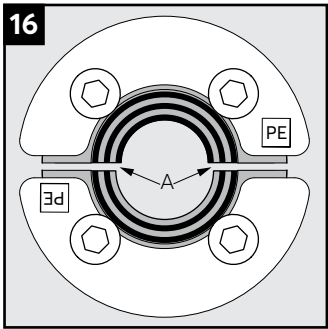**12** Fold back the tape and remove the protection paper. Do this for spare seals as well.
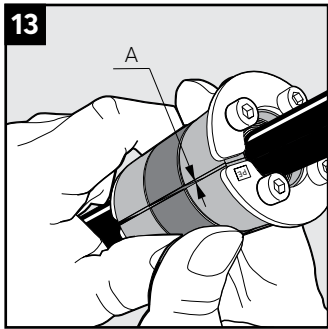
13 Achieve a gap of 0.1-1.0 mm (A) between the two halves by peeling off layers. The cable shield shall be in contact with the conductive tape.
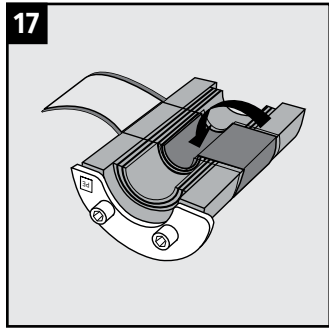
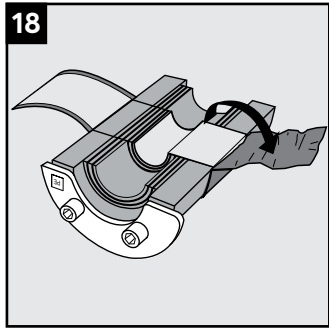**14** Adapt the layers that are in contact with the cable jacket.

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

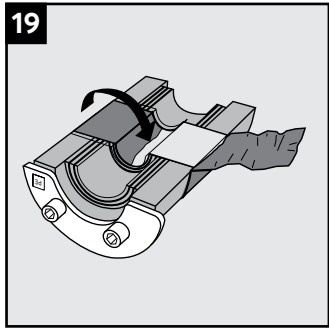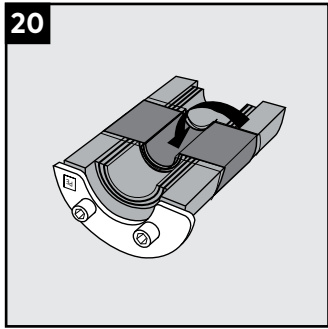**16** The number of layers must not differ (A) by more than one between the corresponding halves.
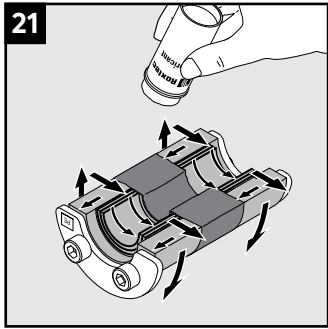
17 Fold the tape tightly inside the seal.

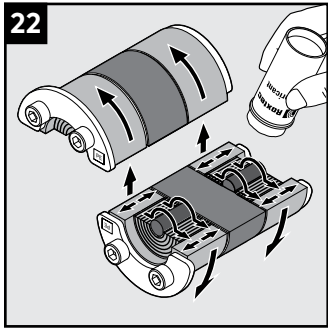**18** Lift the plastic film from the folded side.

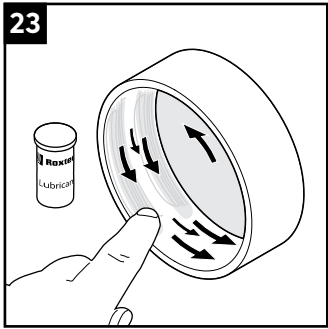**19** Fold the tape on the other side tightly inside the sealing half.

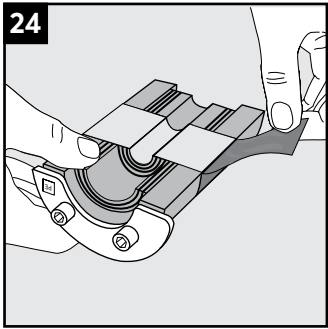**20** Fold the plastic film back inside the sealing half.

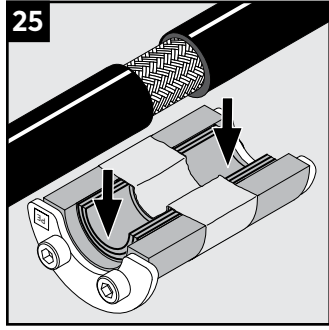**21** Lubricate the sealing surfaces. Do not lubricate the plastic film.

22 Lubricate the sealing surfaces of any spare seal. Do not remove the core.
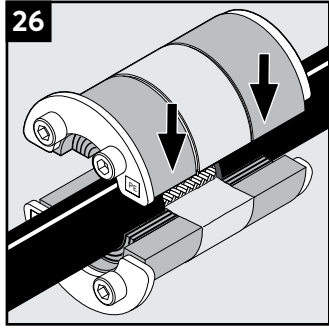
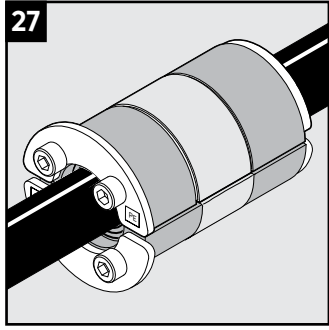**23** Lubricate the inside surfaces of the sleeve. Lubricate the area that will be in contact with the tape sparsely.
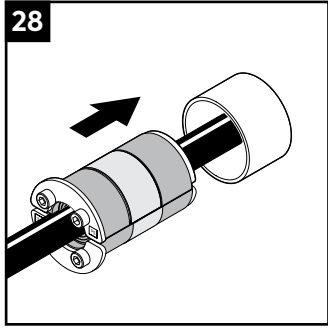
24 Remove the plastic film. Keep the conductive tape clean.
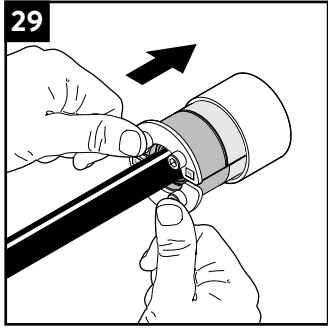
25 Place the cable in the sealing half.
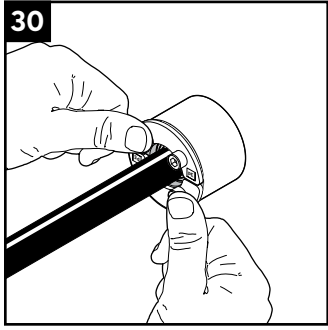
26 Assemble the seal around the cable.

27 Verify the gap between the seal halves.

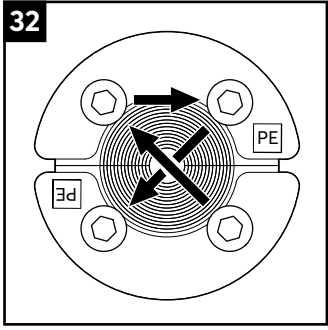**28** Insert the seal into the sleeve.
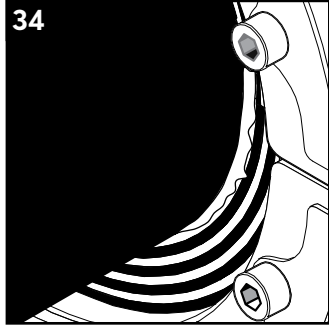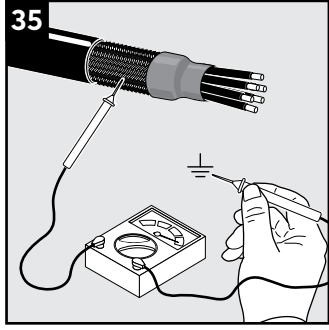
29 Do not damage the tape.

30

31 Tighten the screws crosswise in small steps to the specified torque.
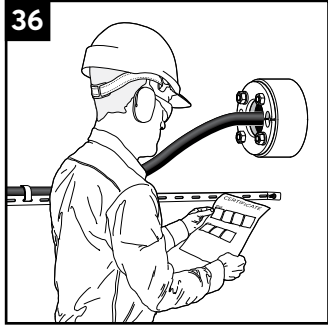
32
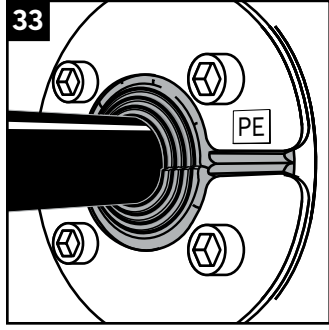
33 The seal is compressed when the rubber bulges between the fittings.

34 Excess lubricant is a sign of good compression.

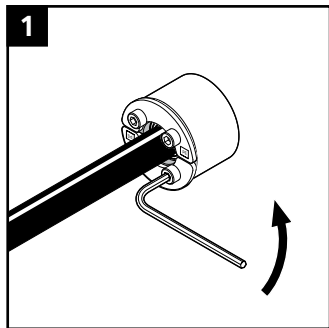**35** Optional: Verify earth continuity from the cable shield to earth. Use a suitable instrument.
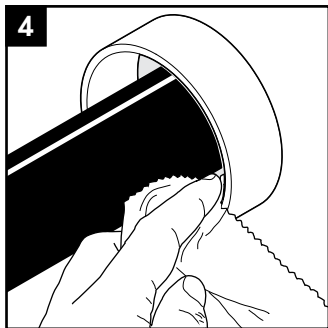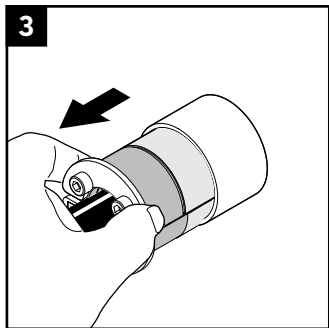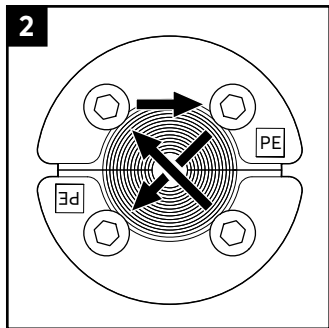
36 Make a final check! Different approvals or certificates may include amendments or limitations related to this application.

Disassembly and reinstallation

1 Untighten the screws crosswise in small steps.

2

3 Remove the seal from the sleeve.

4 Clean the sleeve and continue the reinstallation.