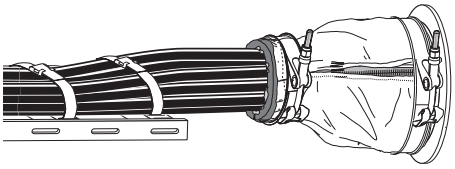
Installation instructions
GK Multi-cable fire collar

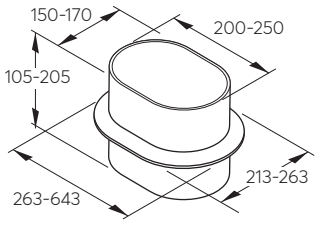


Safety information

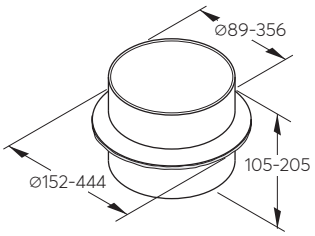
Roxtec recommends that all installations are performed without facility operation. Follow national regulations and installation codes. Any action affecting the routed service should be performed according to manufacturer recommendations.

Pipe sleeve

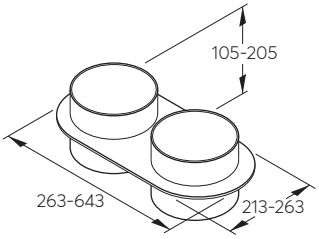
Suitable sleeve dimensions.
Measures in millimeters (mm).



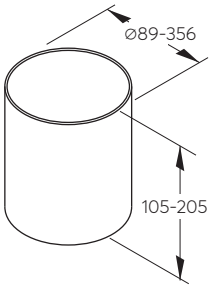
Oval sleeve



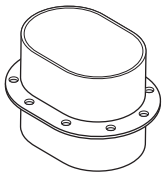
Round sleeve



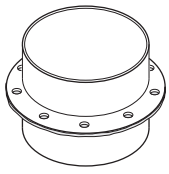
Double round or oval sleeve



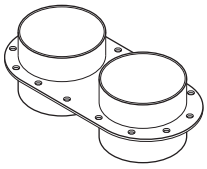
Sleeve without flange



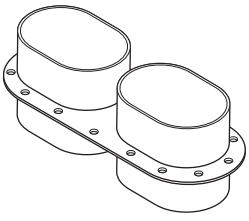
Oval sleeve for bolting



Round sleeve for bolting

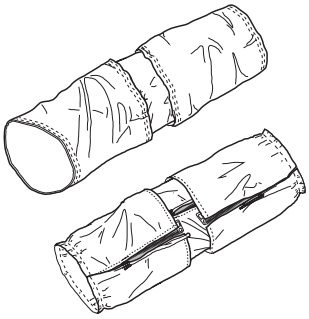


Double round sleeve for bolting

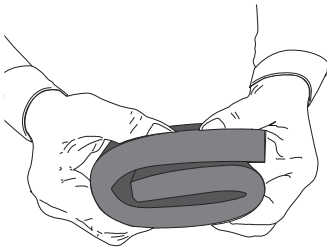


Double oval sleeve for bolting

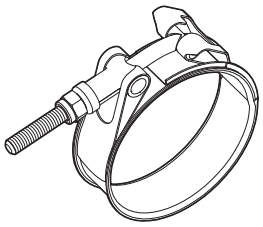
Components



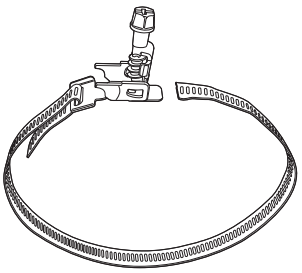
Fiberglass cloth
1 pc.



Sealing strip
2 pcs.

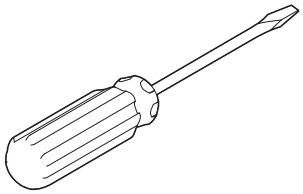


Hose clamp
4 pcs.

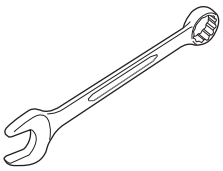


Metal cable tie

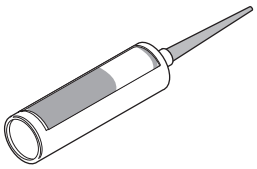
Tools



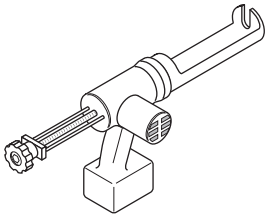
Screwdriver
(Not included)



Wrench
(Not included)



Fire rated smoke sealant
(Not included)



Caulking gun (not included)

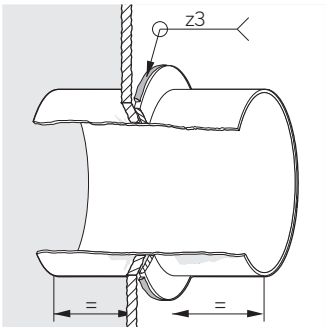
Selection guide

A	B
GK MC FC KIT 89	84 - 89
GK MC FC KIT 127	107 - 127
GK MC FC KIT 140	120 - 140
GK MC FC KIT 168	138 - 168
GK MC FC KIT 219	179 - 219
GK MC FC KIT 244	204 - 244
GK MC FC KIT 273	233 - 273
GK MC FC KIT 324	274 - 324
GK MC FC KIT 356	306 - 356

C	D
GK MC FC KIT 200x150	531 - 571
GK MC FC KIT 200x170	554 - 594
GK MC FC KIT 250x170	654 - 694

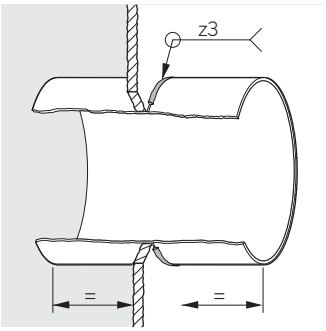
A. Installation kits for round sleeves
B. Fits sleeve outer diameter Min - Max (mm)
C. Installation kits for oval sleeves
D. Fits sleeve outer circumference Min - Max (mm)

Installation of sleeve with flange



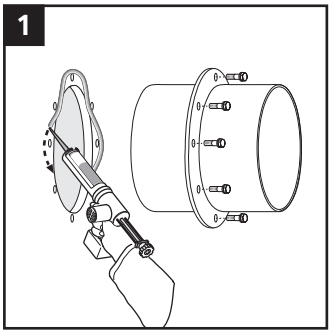
Center the sleeve and apply a continuous gas-tight weld all around.
Max heat input 1.5 KJ/mm.

Installation of sleeve without flange

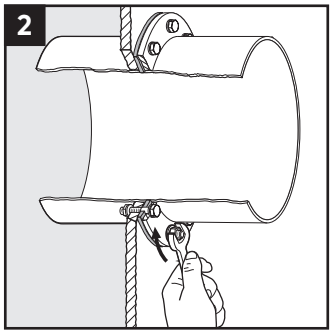


Center the sleeve and apply a continuous gas-tight weld all around.
Max heat input 1.5 KJ/mm.

Installation of sleeve with bolted flange

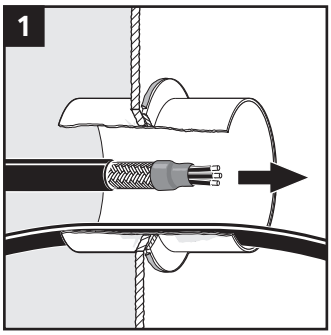


Center the sleeve. Apply a smoke seal between the flange and the structure.

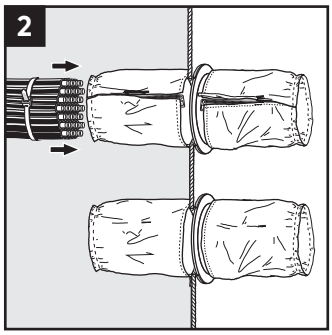


Fasten the sleeve to the structure.

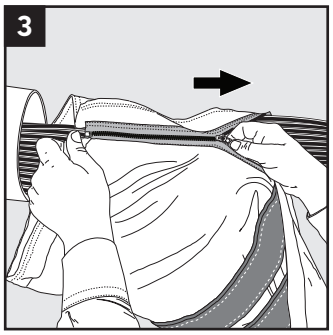
Installation



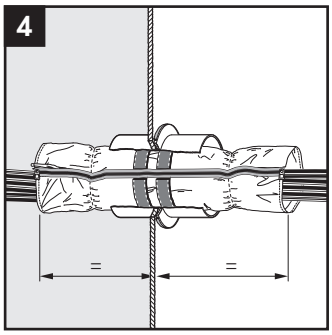
Route the cables.



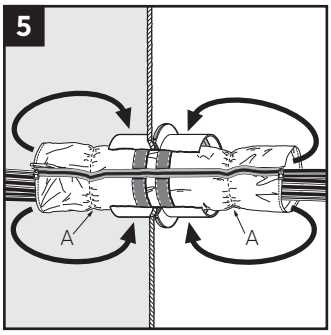
When the cable density is high, mount the fiberglass cloth before routing the cables.



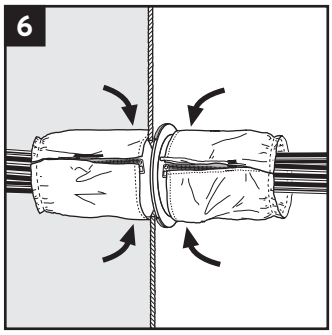
Open the zipper on the fiberglass cloth. Wrap the cloth around the cables with the intumescent material outwards. Close the zipper.



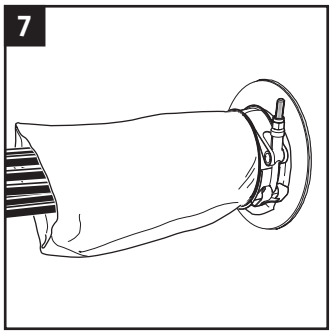
Pull the fiberglass cloth through the sleeve and make sure it is centered.



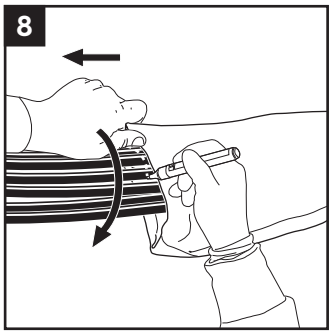
Fold back the fiberglass cloth at the seam (A) on both sides.



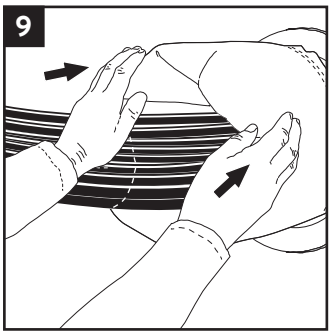
The ends of the fiberglass cloth mounted onto the sleeve.



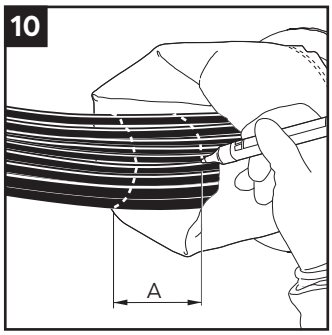
Secure both ends with a strap or clamp.



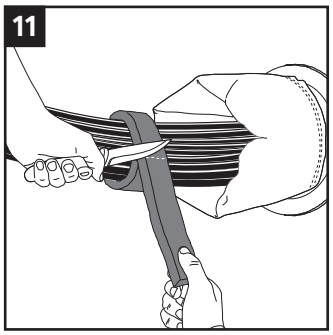
Pull out the fiberglass cloth. Mark the cables with a pen at the edge of the cloth.



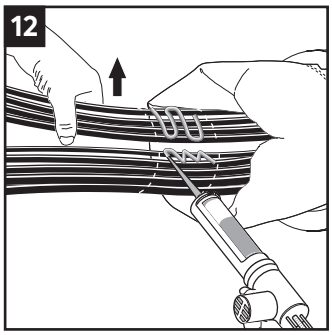
Move the cloth a bit to expose the sealing area of the cables.



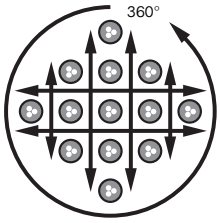
A=60 mm.
Make another mark on the cables.

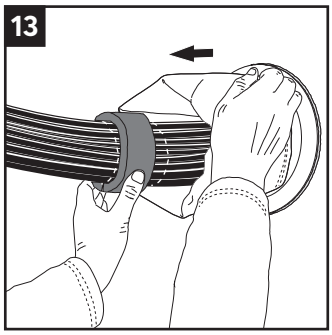


Fold the sealing strip around the cable bundle and cut two pieces, one for each side of the transit.

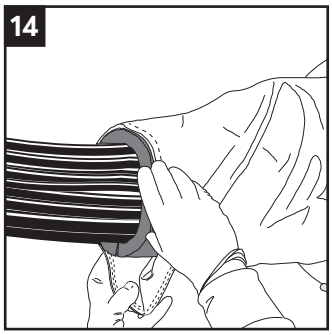


Make a smoke tight transit by applying sealant around and between the cables at the marking.

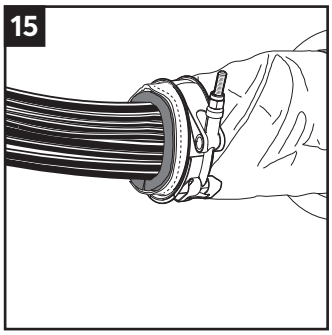




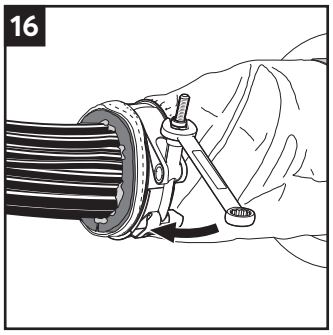
Fold the sealing strip around the bundle and over the sealant. Make sure there are no gaps in the joint.



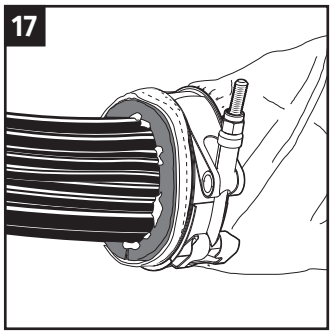
Pull back the fiberglass cloth flush to the sealing strip. If necessary, fold the fiberglass cloth excess material for a tight fit.



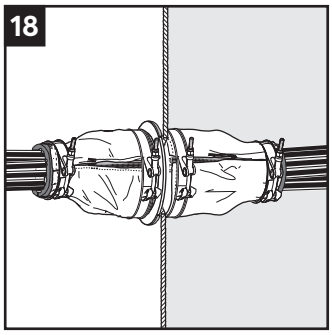
Put a strap or a hose clamp at the center of the sealing strip.



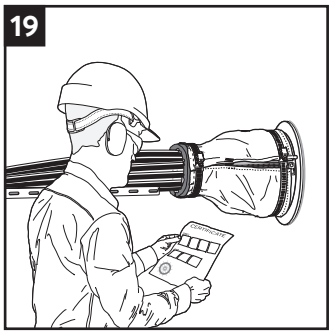
Tighten the strap or clamp with a suitable tool. The compression is complete when the sealing strip is compressed by 50-70%.



Make sure sealant is squeezed out and that there are no gaps in the bundle or at the sealing strip.



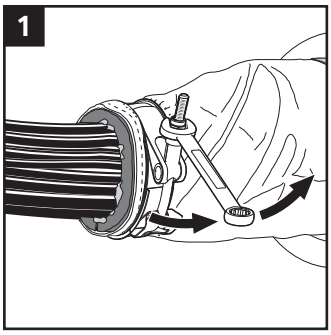
Repeat step 7 to 16 for the other side of the transit.



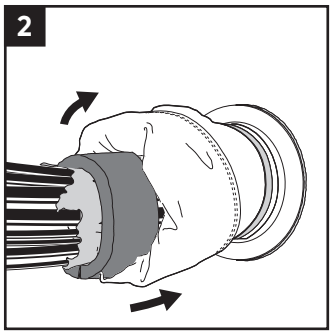
Check additional documentation, if applicable.

Disassembly and reinstallation

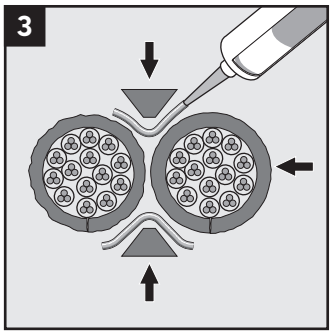
Material needed: 2 pieces of straps or clamps, 2 pieces of sealing strips and sealant.



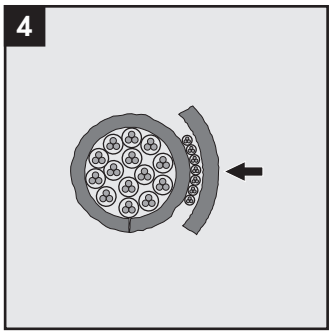
Remove the clamp holding the cables.



Fold back the fiberglass cloth and add a new cable or bundle.

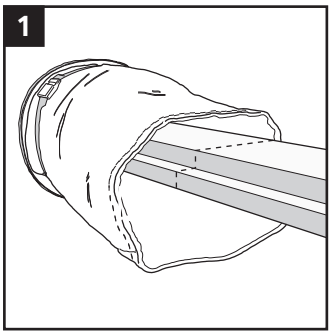


Make sure to fill any gap with sealing strips and sealant. Continue from step 12 on the previous page.

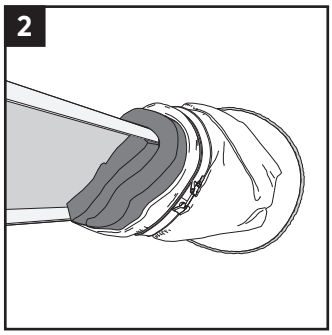


When a few small cables are added a piece of sealing strip can be placed over the new cables. Continue from step 12 on the previous page.

GK MC FC and busbars

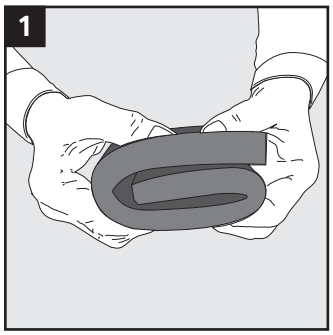


Apply the strip around the busbar. Cavities are filled with shorter pieces of strips. Fold the fiberglass cloth excess material for a tight fit.

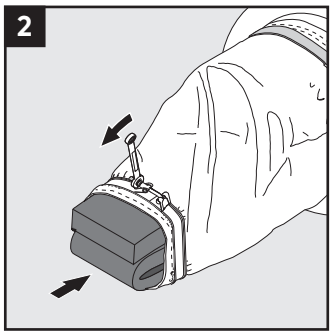


Put a clamp at the center of the sealing strip. Tighten the clamp with a suitable tool. The compression is complete when the sealing strip is compressed by 50-70%.

GK MC FC without cables



Cut a 300 mm long piece of sealing strip and fold it two times.



Insert the sealing strip and fold the cloth for a tight fit. Put a clamp at the center of the sealing strip and tighten it.
The compression is complete when the sealing strip is compressed by 50-70%.

Note

- The recommended maximum cable density is 67%.
- Make sure not to damage the fiberglass cloth.
- The weight of the cables must be supported on both sides of the GK Multi-cable fire collar.
- 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.

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