

CAUTION : Read instructions thoroughly and completely prior to beginning installation.

Installation Instructions Separable Elbow Connector - CENELEC interface type A

EUROMOLD®



(K)200LR

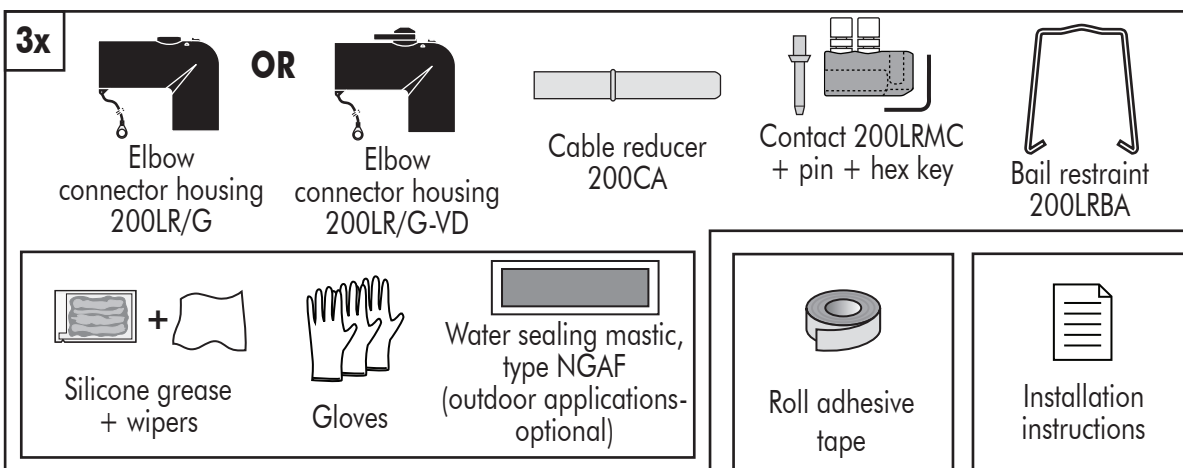
Up to 24 kV

Only to be used on copper wire screened cable with extruded semi-conductive screen and conductors of copper or aluminium.

Check if the diameter over cable core insulation is in accordance with the cable reducer range as indicated in table below:

Cable reducer size (see marking inside cable reducer)	Dia. over core insulation (mm)	
	min	max
200CA-12	13.0	21.0
200CA-16	17.5	25.0
200CA-19	21.5	28.5

Contents :



Risk assessment :

Hazard	Cause	Precaution
Cut fingers or hands	Sharp ends of Cu wire screens. Sharp edges of knives, or blades of cable preparation tools.	Tape ends of Cu wire screens down to the sheath. Use gloves. Take extra care handling sharp items.
Back, arm or wrist strain	Installation of cable adapter.	Ensure you position yourself comfortably over/around the cable adapter when installing to ensure no unnecessary strain.

Before Starting

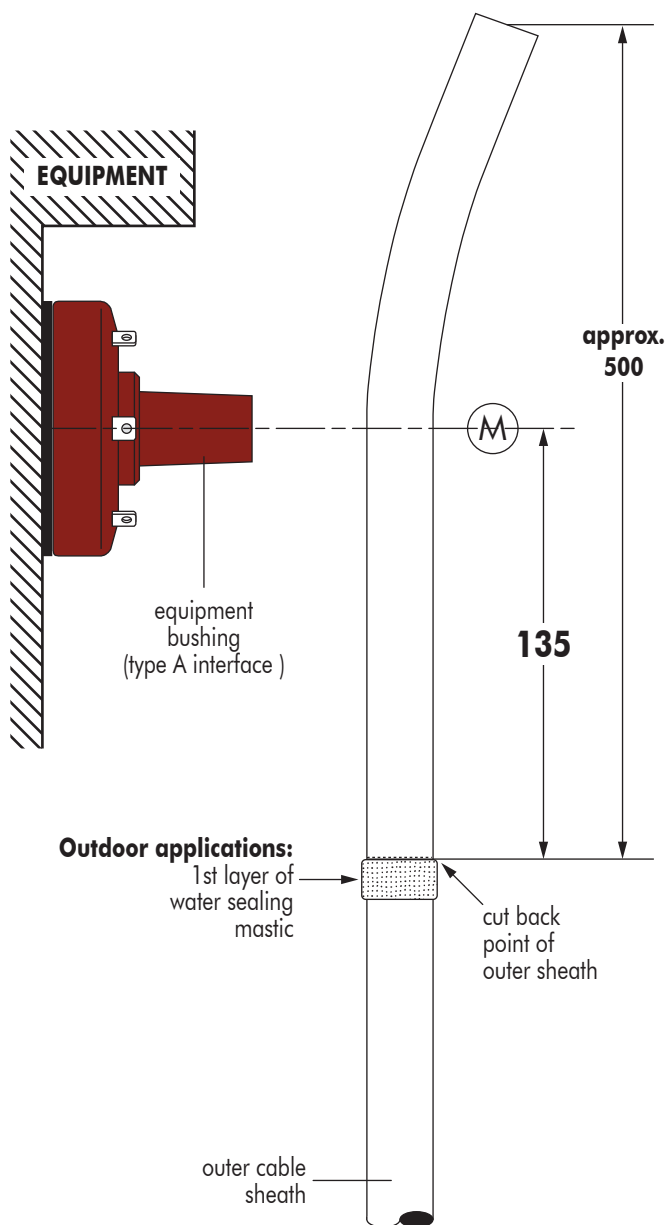
- Ensure the components in the kit are correct for the cable. The cable adapter and cable lug have the ranges on the label.
- Cross check the label on the box with the title of the instruction.
- Some procedures may have changed since you last installed the product. Ensure you read the instruction thoroughly.

Sheath test all cables prior to all jointing work. Megger all cables (5 kV).

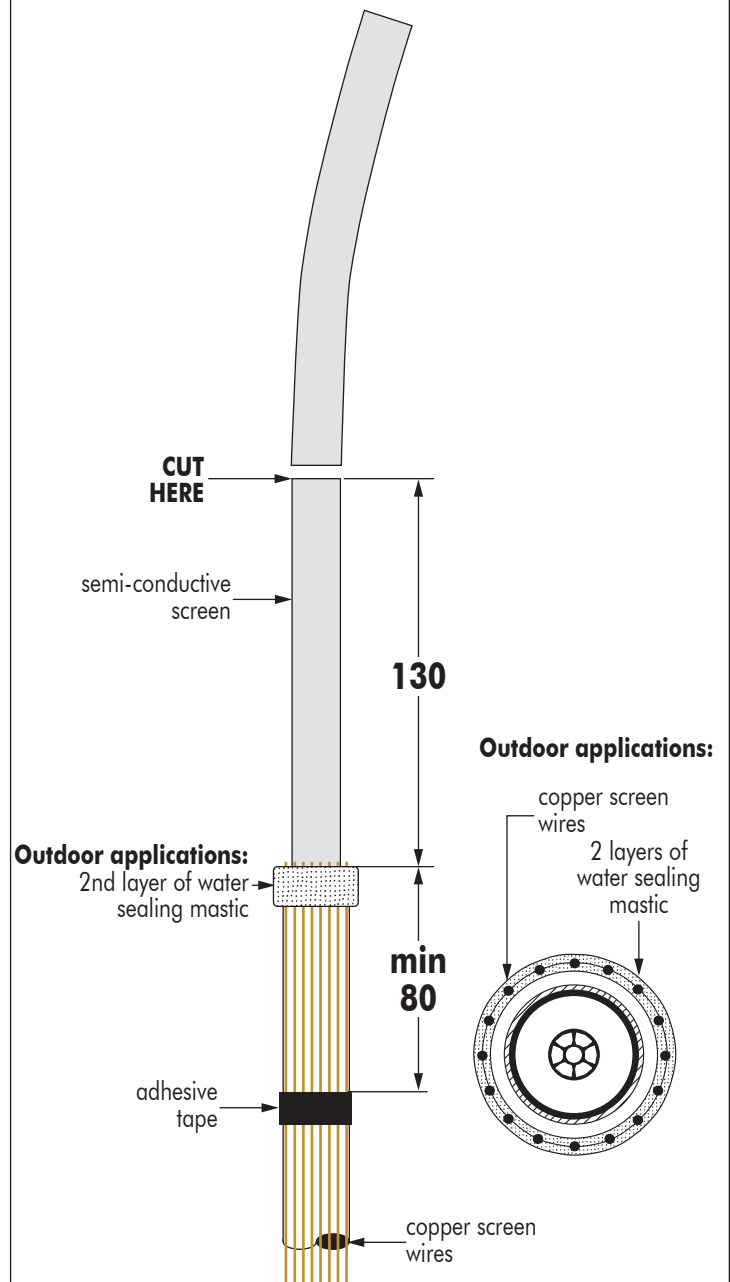
Route km	Screen to earth Minimum values		Core to earth Minimum values	
km	Giga Ohms	Micra Amps	Giga Ohms	Micra Amps
0.25	1	5	4	1.25
0.5	1	5	3	1.66
	Mega Ohms		Mega Ohms	
0.5-1	500	10.0	2000	2.5
2	500	10.0	2000	2.5
3	340	14.7	1332	3.75
4	260	19.2	1000	5.0
5	200	25.0	800	6.25
6	166	30.7	666	7.5
7	142	35.2	572	8.7
8	124	40.3	500	10.0
9	110	45.4	444	11.2
10	100	50.0	400	12.5
11	90	55.5	364	13.7
12	82	60.9	334	14.9
13	76	65.7	308	16.2
14	72	69.4	286	17.4
15	66	75.7	266	18.7
16	62	80.6	250	20.0
17	58	86.2	236	21.1
18	54	92.5	222	22.5
19	52	96.1	210	23.8

NB : Only one phase is shown in these instructions. Make off all three phases the same way. Use a cable conversion kit for 3-core cables.

CABLE PREPARATION

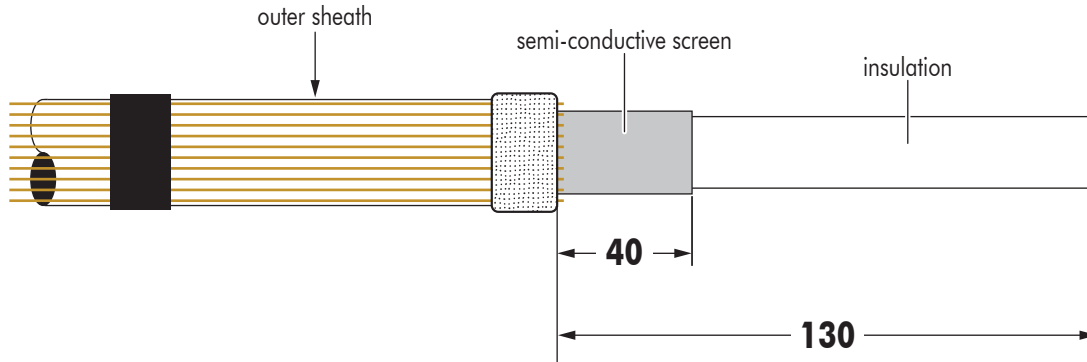


- 1** Train the cable into the approximate finished position next to the equipment bushing.
- 2** Mark the centre line « M » of the bushing.
- 3** Remove the outer cable sheath to a point **135** mm from the centre line « M » of the bushing.



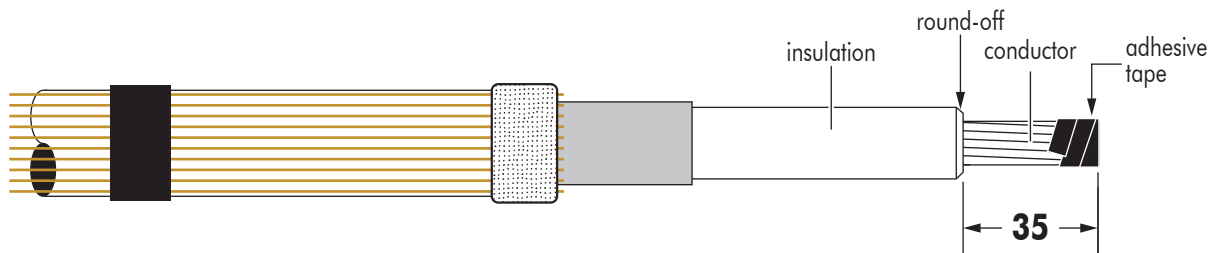
- 4** **For indoor applications**, bend the screen wires back over the outer sheath and proceed to step no. 5.
For outdoor applications:
 - Wrap a first layer of water sealing mastic around the outer sheath, slightly stretched.
 - Bend the screen wires back over the outer sheath, pressing them into the mastic.
 - Note: screen wires should not touch or overlap each other to prevent water ingress.
 - Apply a second layer of water sealing mastic, slightly stretched.
- 5** Using adhesive tape, fix the screen wires at a distance of min **80** mm from the edge of the outer sheath.
- 6** Cut the cable to a point **130** mm from the outer sheath.

SEMI-CONDUCTIVE SCREEN REMOVAL



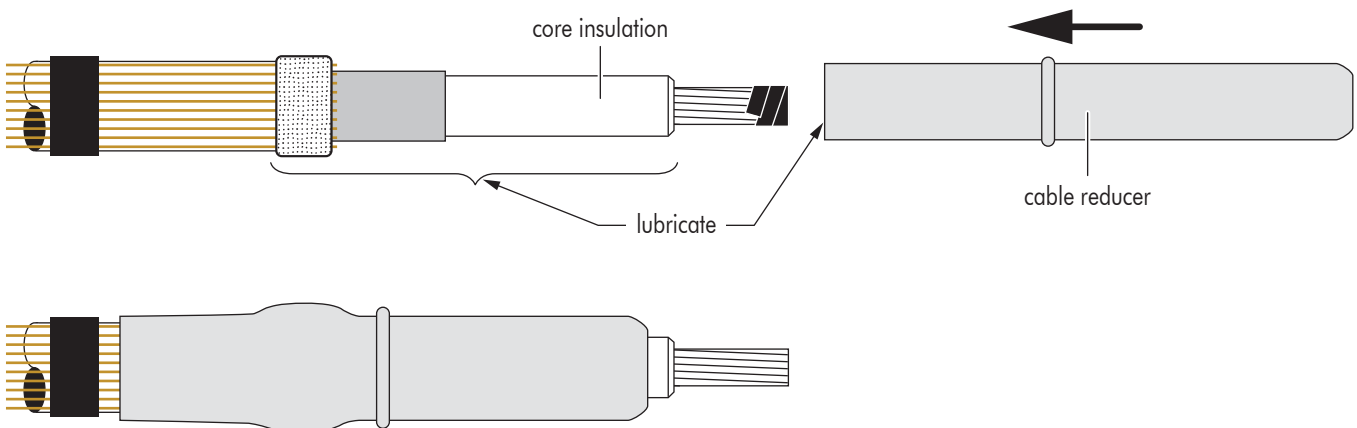
- 1 Check distance of **130** mm.
- 2 Remove the semi-conductive screen to a point **40** mm from the outer sheath.
For extruded easy strip semi-conductive screen:
 Cut squarely taking care not to cut the core insulation.
For bonded extruded semi-conductive screen:
 Use an appropriate pencilling tool. Make a smooth transition between core insulation and semi-conductive screen.

REMOVAL OF THE CORE INSULATION



- 1 Remove the core insulation from the conductor for a distance of **35** mm.
- 2 Slightly round-off the edge of the core insulation. **Do not sharpen in cone-shape.**
- 3 **Thoroughly clean core insulation.** Always wipe towards the screen wires.
- 4 As a protection, wrap a few turns of adhesive tape around the conductor end.

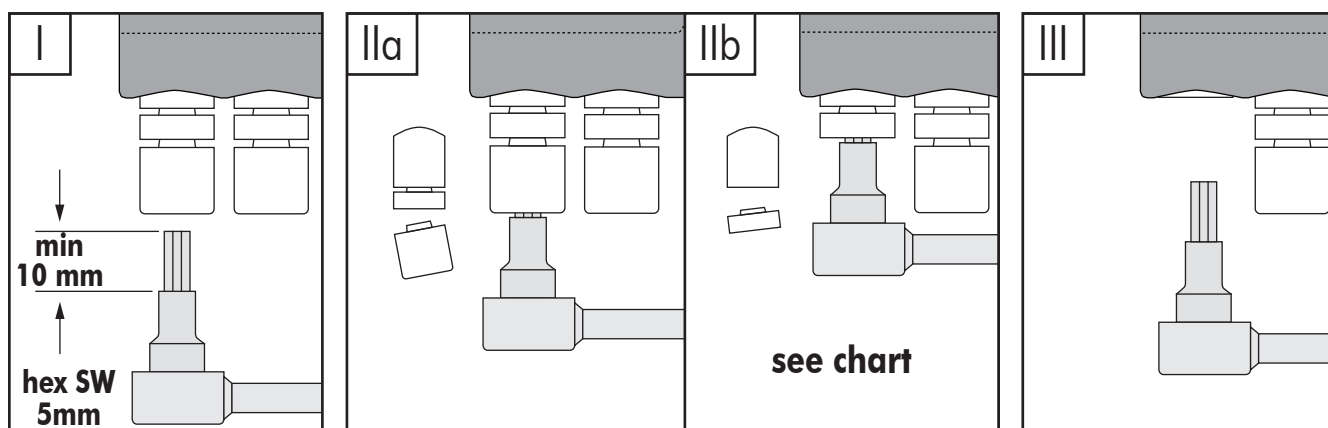
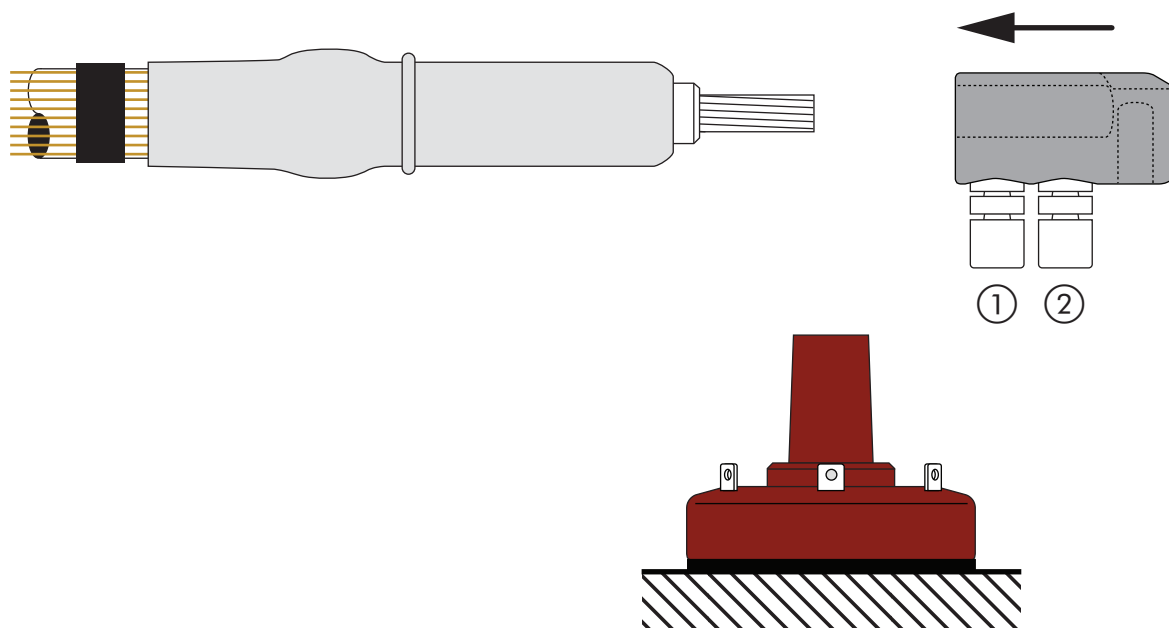
INSTALLATION OF THE CABLE REDUCER







- 1 Lubricate* the indicated area : cable surface and inner surface of the reducer.
- 2 Slide the reducer down the cable.
- 3 Remove the protective adhesive tape from the conductor.

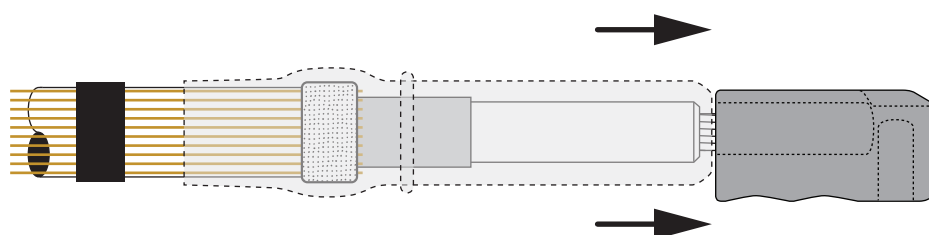
* USE ONLY THE SILICONE LUBRICANT SUPPLIED

TIGHTENING OF THE CONTACT



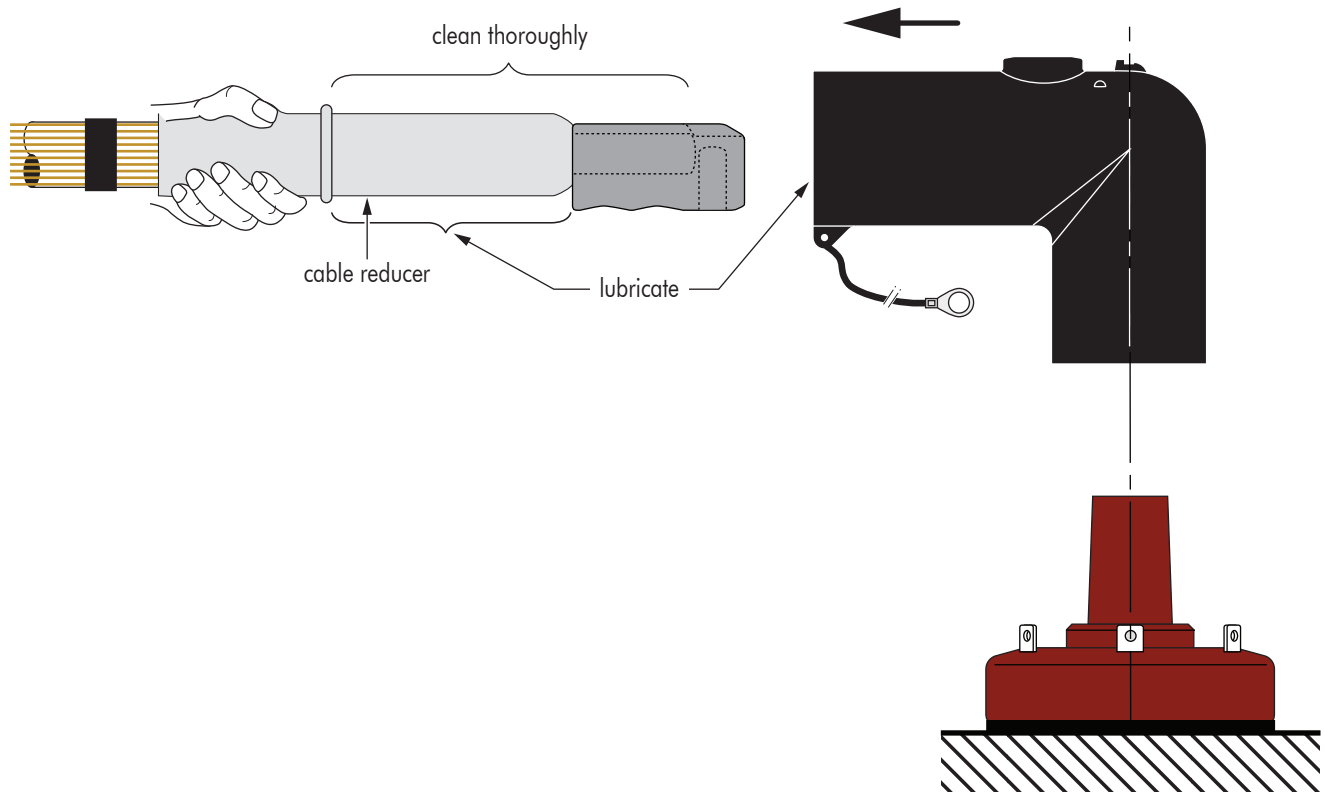
- 1 For aluminium conductors, wire brush the conductor to break up the oxide layer and insert into barrel immediately.
- 2 Install the contact with the contact palm facing the bushing interface.
- 3 Tighten the bolts, alternating between both bolts. Shear off the required levels, according to the chart below. It is recommended to use a holding tool for ease of installation.

	Al [mm ²]		Cu [mm ²]	
	 round solid	 round stranded	 round stranded	 flex (class 5)
1 x shear off	16-70	16-70	16-50	25-70
2 x shear off	95	95	70-95	-

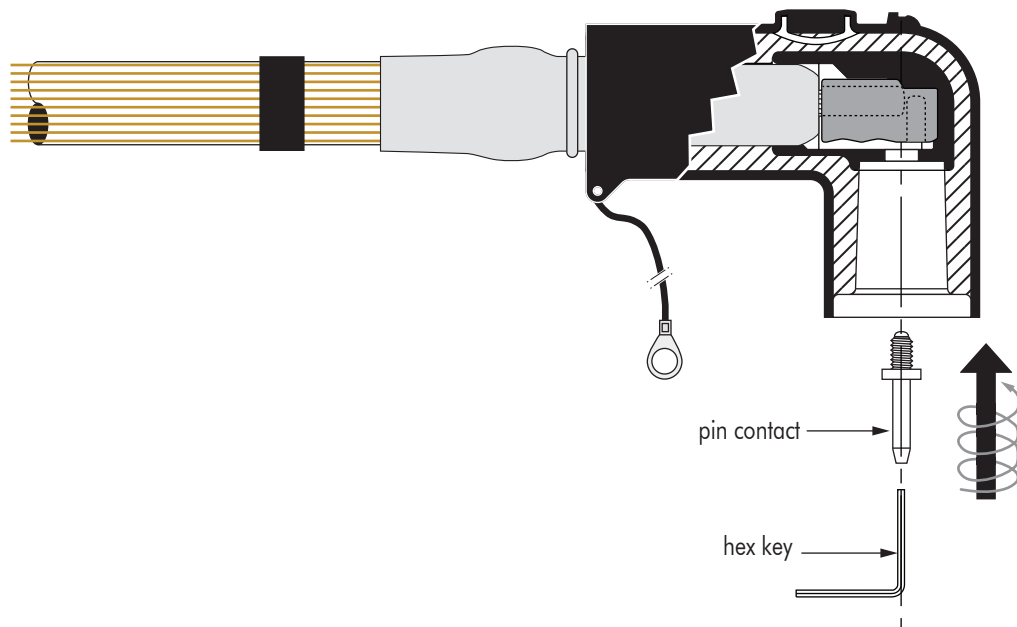


- 4 After tightening the contact, slide the cable reducer up until it butts against the contact.

CONNECTOR INSTALLATION ON THE CABLE



- 1 **Thoroughly clean cable reducer and contact.**
- 2 Lubricate* the cable reducer and inside surface of the connector.
- 3 Hold the cable reducer with one hand, whilst sliding the connector housing onto the reducer until it cannot advance any further.



- 4 Insert the supplied hex key into the pin contact. Insert the threaded end of the pin contact into the mating part and engage threads. **Take care not to cross threads.**
- 5 Tighten with the supplied hex key until the key has taken a set.

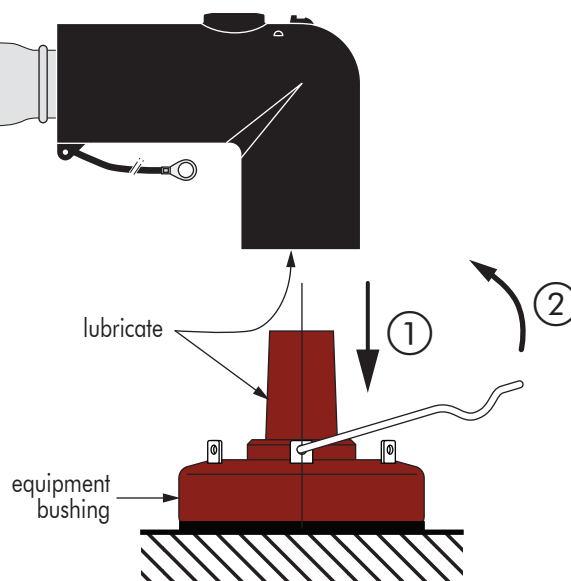
NOTE:

- The hex key must be inserted in the pin contact until it cannot advance any further.
- The hex key is only usable twice (once every side).

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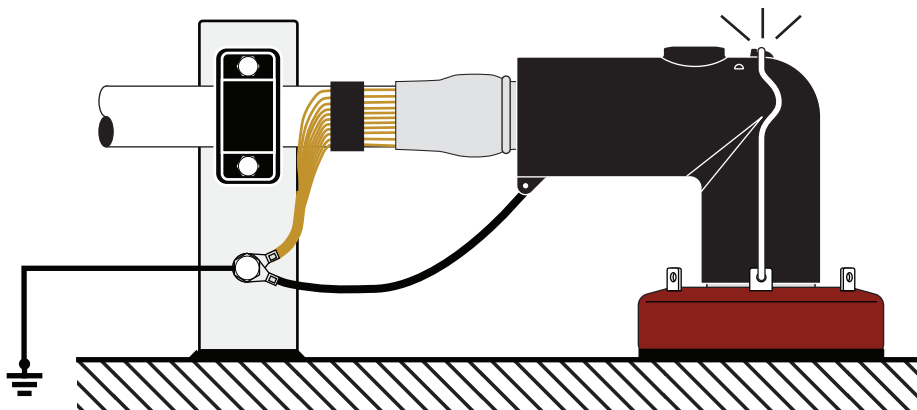
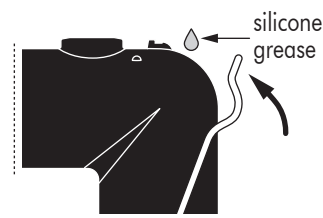
CONNECTOR INSTALLATION ON THE BUSHING

- 1 Clean and lubricate* both bushing interface and elbow connector interface.
- 2 Place the elbow connector firmly down on the bushing ①.
- 3 Insert bail into the bushing tabs and position bail over elbow connector ②.



Installation hint :

Apply a small dash of silicone grease on the connector's surface to easily snap the bail into position.



- 4 Twist screen wires to form a pig tail.
- 5 Connect earthing lead of the connector and the screen wires to the system earth.

NOTE : a connector/bushing mated combination should not be allowed to carry the full weight of the cable. Therefore it is necessary to clamp the cable as close as possible to the connector.

IMPORTANT NOTES :

- Never disconnect the connector from energised equipment nor energise a disconnected connector without previously installing an appropriate mating part.
- Do not allow hydrocarbon oils or solvents to contaminate the E.P.D.M. rubber. In the event of contamination, wipe the surface clean with a dry cloth.

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