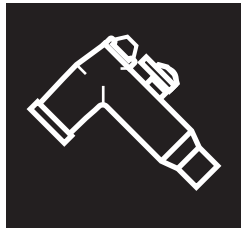


CAUTION : Read instructions thoroughly and completely prior to beginning installation.

Installation Instructions for Separable Elbow Connector - Type B interface



**(K),(M)400LR/G**  
Up to 36 kV

Only to be used on copper wire screened cable with extruded easy strip or bonded semi-conductive screen



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

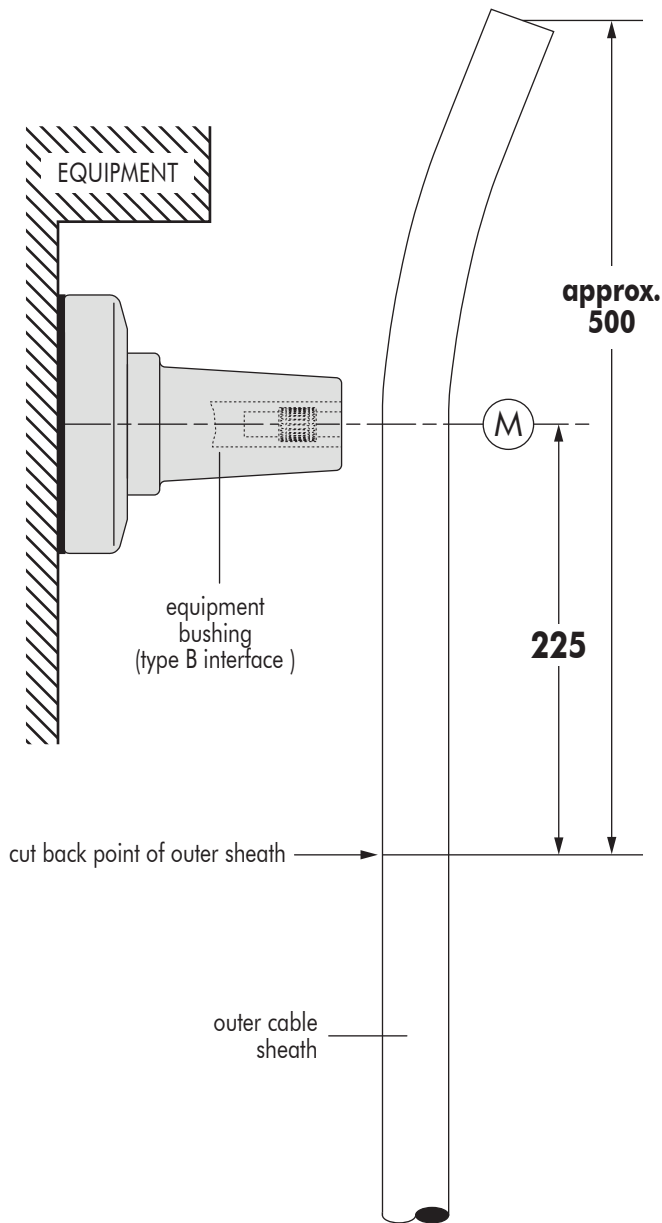
Cable reducer size (see label on cable reducer)	Dia. over core insulation (mm)	
	min	max
CA0-11	12.0	19.0
CA0-15	16.0	26.5
CA0-18	19.0	32.6
CA0-21	22.0	34.6
CA0-27	28.5	37.5

Required components for the connector installation :

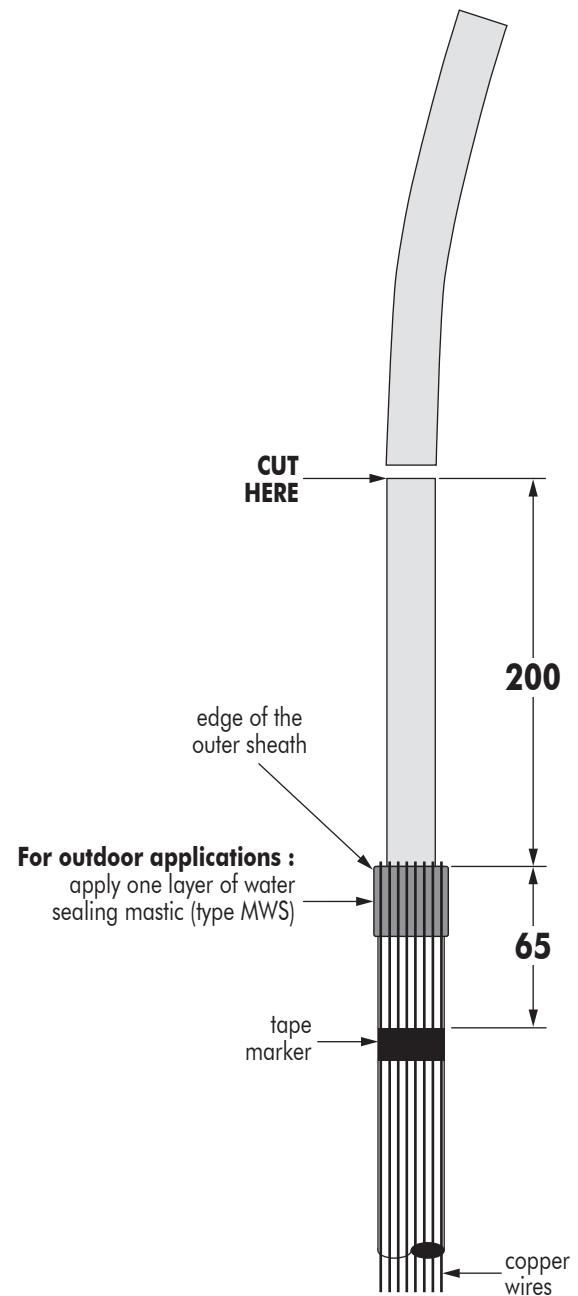
 3 x Elbow connector housing 400LR/G	 3 x Cable reducer CA0-W	 3 x Conductor contact 400LRMC-X	 Water sealing mastic, type MWS, (for outdoor applications only)	 3 x Bail restraint
 3 x Pin contact + hex. key	 Roll adhesive tape	 Silicone grease + wipers	 Gloves	 Installation instructions + crimp chart



NOTE : Cet accessoire doit être installé par du personnel certifié et familier tant avec l'équipement électrique qu'avec les règles de consignation. Les composants de cette trousse doivent être inventoriés avant leur mise en oeuvre et celle-ci sera effectuée en accord avec la présente notice de montage et avec un matériel adapté. Cette notice ne peut en aucun cas se substituer à tout stage, formation ou expérience relevant des consignes de sécurité.



- 1 Train the cable into the approximate finished position next to the equipment bushing. Be sure to allow enough extra length of screen wires to connect to earth.
- 2 Mark centre line « M » of the bushing.
- 3 Remove the outer cable sheath to a point **225** mm from the centre line « M » of the bushing.



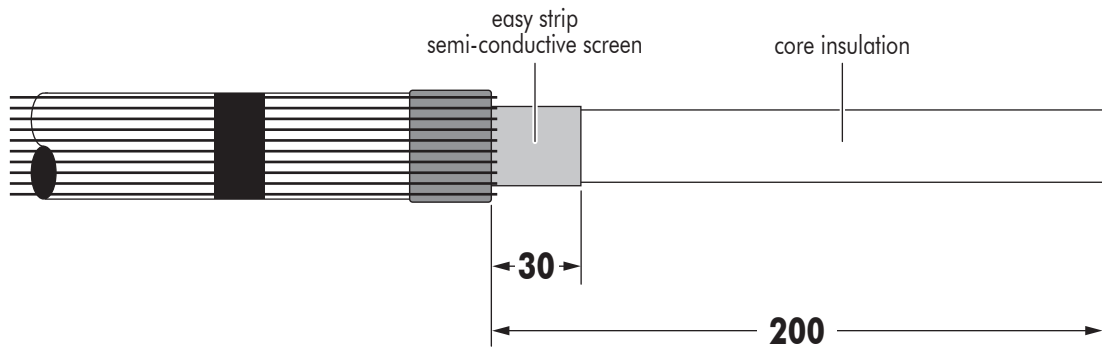
- 4 For indoor applications, bend the screen wires back over the outer sheath and proceed to step no. 5.  
**For outdoor applications:**
  - Wrap one layer of water sealing mastic (type MWS) around the outer sheath, flush with the end (**25** mm minimum width). Completely encircle the cable.
  - Bend the screen wires back over the mastic and along the outer sheath, pressing them into the mastic.
  - **Important:** screen wires should not touch each other when pressed into the mastic to prevent water ingress.
- 5 Apply a tape marker around the outer sheath **65** mm from the edge.
- 6 Cut the cable to a point **200** mm from the outer sheath.



**FOR INFORMATION ONLY** Please always use the instructions supplied in the kit

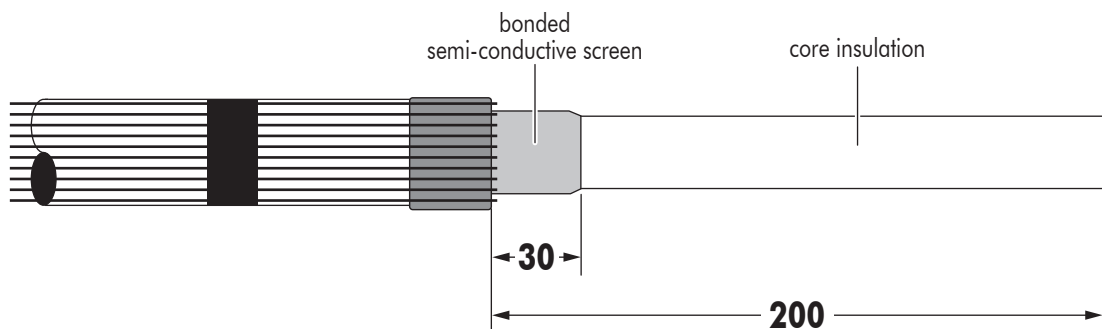


## For extruded easy strip semi-conductive screen



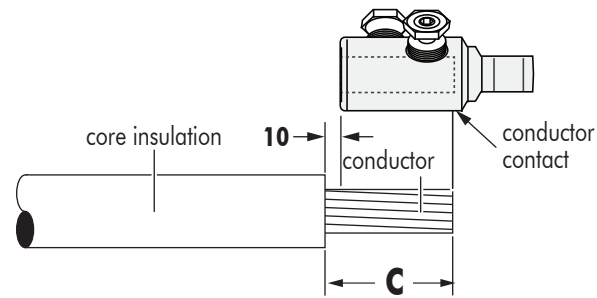
- 1 Check distance of **200** mm.
- 2 Remove the easy strip semi-conductive screen to a point **30** mm from the outer sheath. Cut squarely taking care not to cut the core insulation.

## For bonded extruded semi-conductive screen

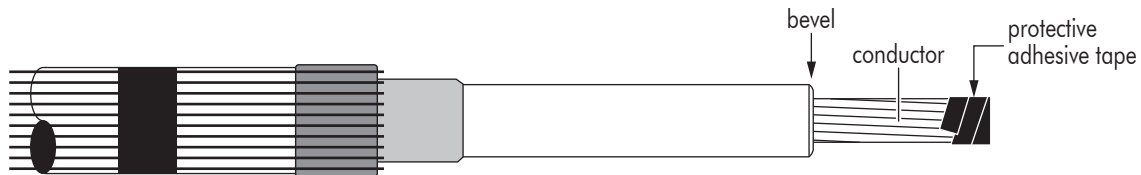


- 1 Check distance of **200** mm.
- 2 Remove the bonded semi-conductive screen to a point **30** mm from the outer sheath. Use an appropriate pencilling tool. Make a smooth transition between core insulation and semi-conductive screen.
- 3 **Remove any traces of conductive residue from the core insulation.**

## REMOVAL OF THE CORE INSULATION

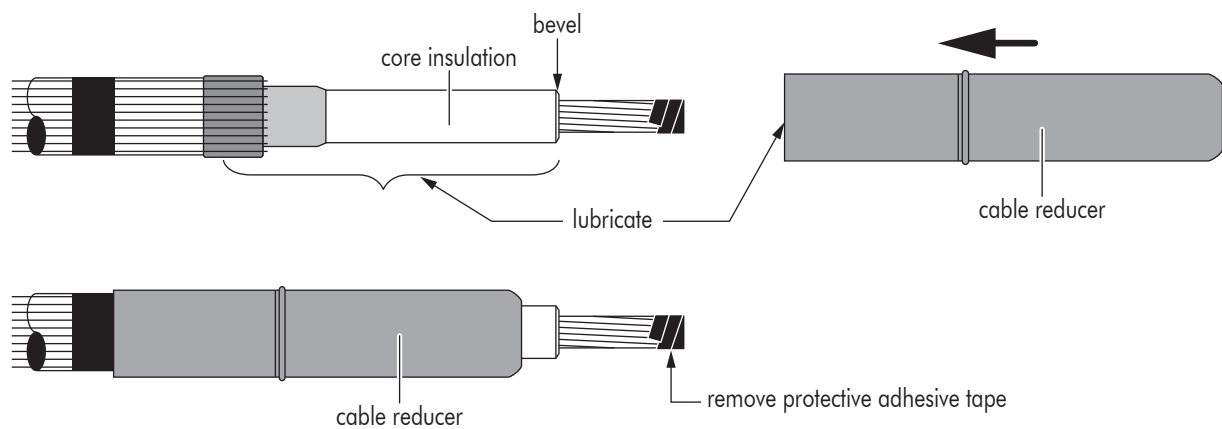


- 1 Remove the core insulation from the conductor for a distance « **C** » mm (**C** = depth of contact bore + **10** mm).



- 2 Slightly bevel the edge of the core insulation (max 2 mm). **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

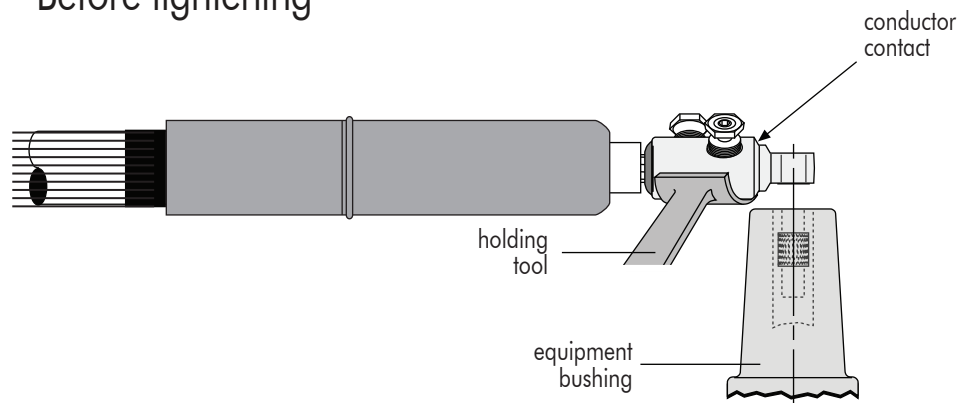


- 1 Lubricate\* the indicated area : core insulation, semi-conductive screen and inner surface of the reducer.
- 2 Slide the reducer down the cable until flush with the tape marker.
- 3 Remove protective adhesive tape from the conductor.



## CRIMPING/TIGHTENING OF THE CONTACT

### Before tightening



- 1 For aluminium conductors : before installing the conductor contact, wire brush the conductor.
- 2 Insert, if necessary, the centre ring into the contact barrel according to the table in the contact installation instructions.
- 3 Position the contact taking care that the contact hole aligns with the bushing hole.
- 4 Tighten the contact. Please refer to the installation instruction included with the contact. It is recommended to use a holding tool for ease of installation.

### After tightening



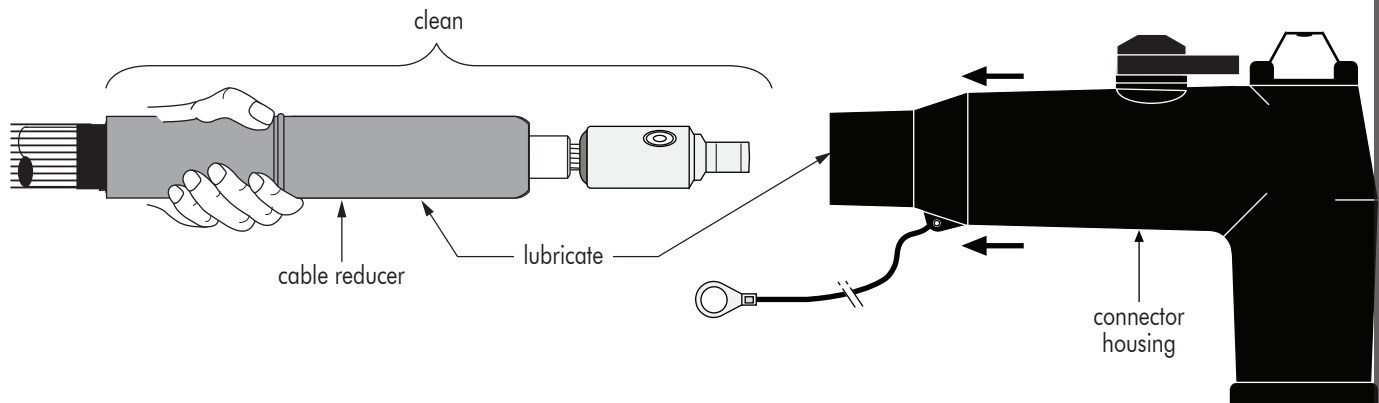
- 5 After tightening, distance « **Z** » must be between **120** and **130** mm.  
If necessary, adjust the position of the cable reducer until distance « **Z** » is within the tolerance range.
- 6 **Wipe-off excess inhibitor and remove any burrs resulting from tightening.**



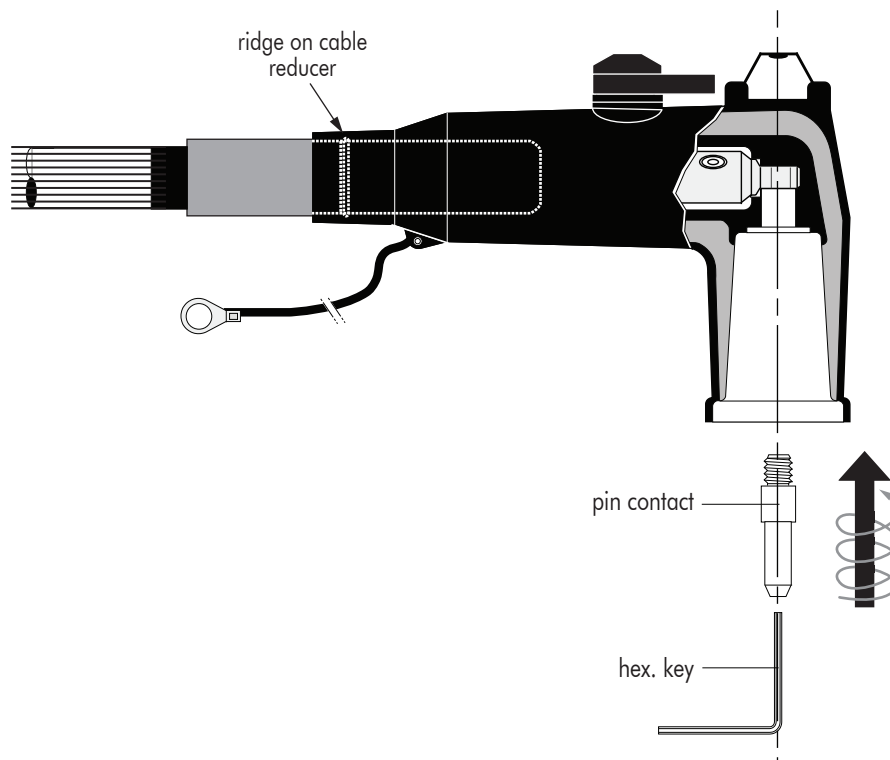
FOR INFORMATION ONLY Please always use the instructions supplied in the kit



## CONNECTOR INSTALLATION ON CABLE



- 1 Clean and lightly lubricate\* the inside surface of the connector and outer surface of the cable reducer.
- 2 Check if the angle of the elbow connector housing is correct relative to the palm of the crimp contact and gently slide the housing on the cable until it cannot advance any further.
- 3 - **Make sure the cable reducer stays in place during installation.**  
- **Verify that the ridge on the cable reducer is located inside the connector housing.**



- 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).

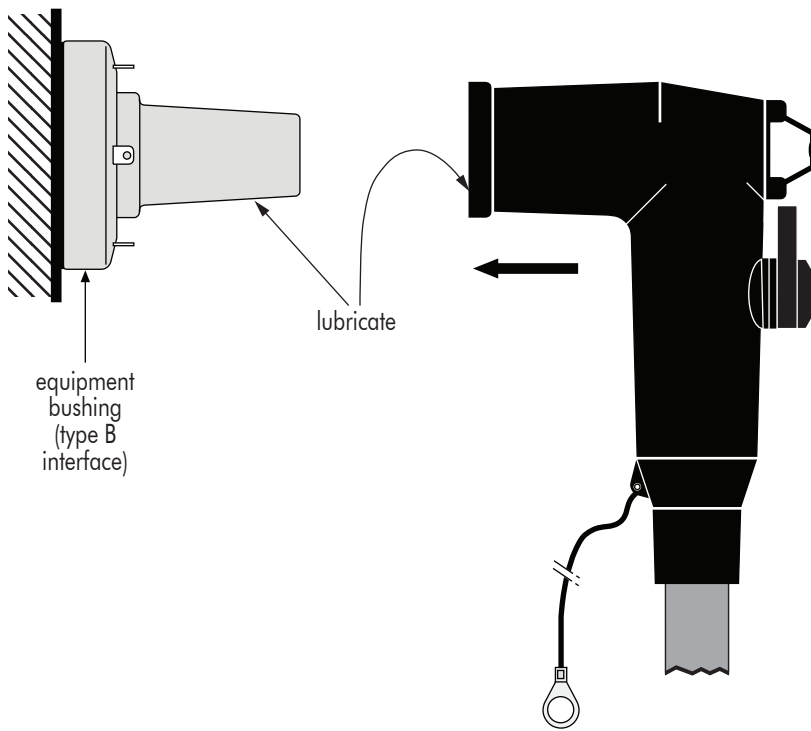


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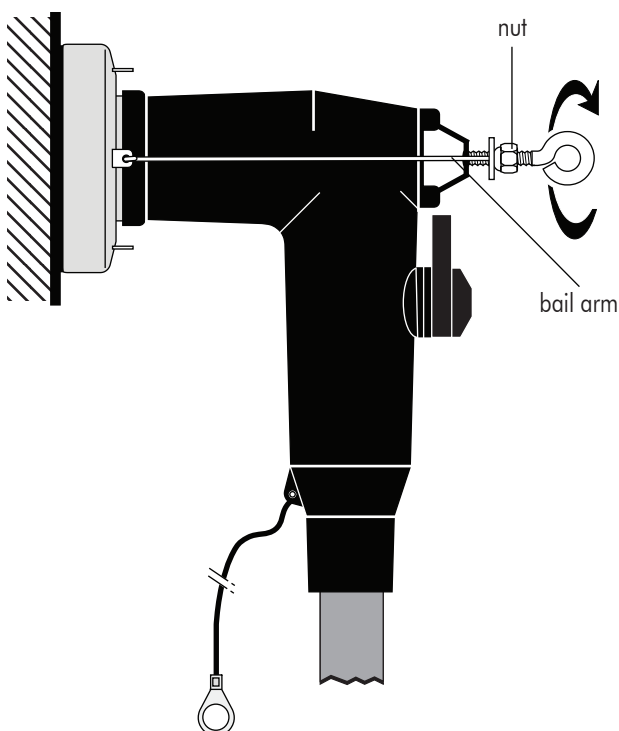


IS97530-ENG - 400LR/G-CW45/CAB Revision 1

## CONNECTOR INSTALLATION ON BUSHING



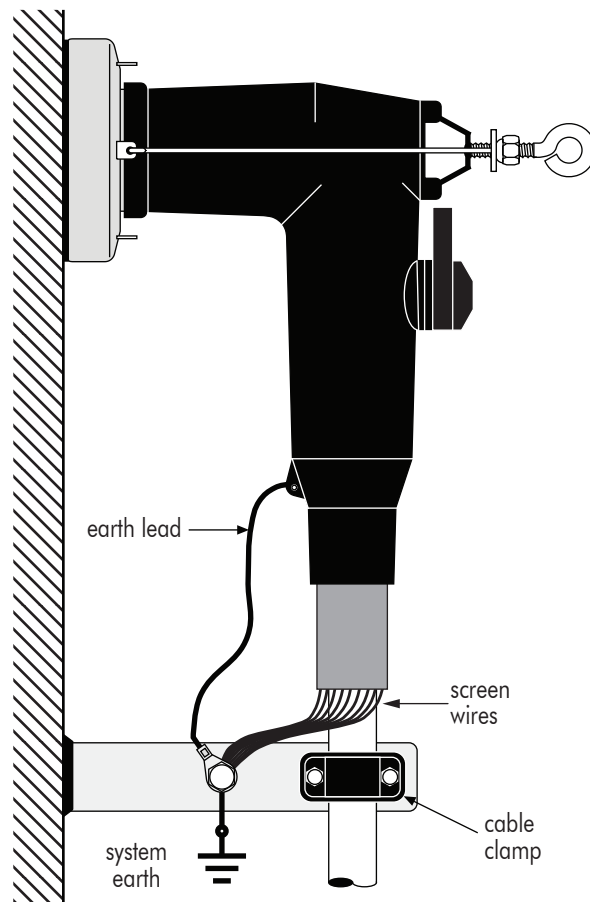
- 1 Clean and lightly lubricate\* both connector and bushing interface.
- 2 Push connector on to the bushing.



- 3 Insert bail arm into the bushing tabs.
- 4 Position bail arm and tighten eye bolt.  
**Do not apply excessive force on the elbow.** Adjust the nut on the eyebolt until it allows the eyebolt to seat securely on the locator. The nut should act as a stop to prevent the eyebolt from applying excessive force on the elbow. Once the nut is in final position, it will not have to be re-adjusted when removing and replacing the elbow.

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## CONNECTOR EARTHING AND CABLE CLAMPING



- 1 Bend back the screen wires along the outer sheath to form a pig tail.
- 2 Connect the earthing lead and screen wires to 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 :**

- In order to achieve the correct applied torque ensure that there is no lubricant on the threaded parts.
- Never disconnect the connector from energised equipment nor energise a disconnected connector without previously installing on its appropriate corresponding 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.

**Nexans**

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