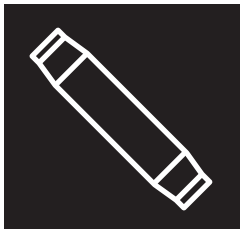


CAUTION : Read instructions thoroughly and completely prior to beginning installation.

Installation instructions for cold-shrinkable straight joint



36CSJ-2
36 kV

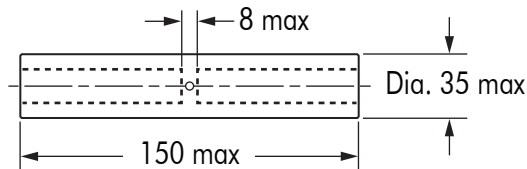
Only to be used on copper wire screened cable with bonded extruded semi-conductive screen and extruded easy strip semi-conductive screen

CABLE DATA

diameter over ...		conductor size
cable outer sheath	core insulation	36 kV
48 mm max	23 mm min	50 - 240 mm ²


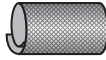













CONDUCTOR CONNECTOR DATA

**deep indent & hexagonal crimping or shear head bolted
(dimensions after crimping/tightening)**



In case your connector does not comply with the above mentioned dimensions, please contact our local representative.

Required components for the joint installation :

 1 x Joint housing	 2 x Self-adhesive copper tape	 1 x Field control mastic plate
 1 x Pulling hook	 1 x Field control mastic strip (MACDC)	 1 x Pack of 2 field control mastic strips (L = 200 mm)
 1 x conductor connector (optional)	 1 x Pack of field control mastic strips MFC STEP (2x)	 Template
 Roll adhesive tape	 Roll semi-conductive tape	 White pencil
 Wipers + gloves	 Lubricant	 Installation instructions

This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices. These instructions do not attempt to provide for every possible contingency. Failure to follow these instructions could result in damage to the product and serious or fatal injury.
IMPORTANT : Cable and associated apparatus must be de-energised, locked out, and tagged prior to product installation.



Nexans Network Solutions NV - div. EUROMOLD

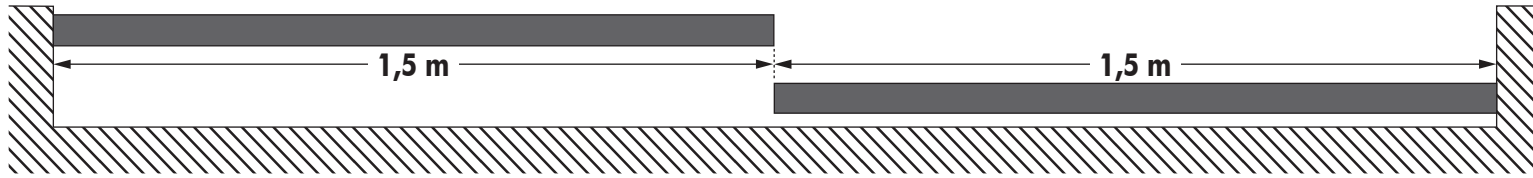
Zuid III - Industrielaan 12
B-9320 EREMBODEGEM-AALST - BELGIUM
Tel: +32 (0)53/85 02 11 - Telefax: +32 (0)53/83 10 13
sales.euromold@nexans.com



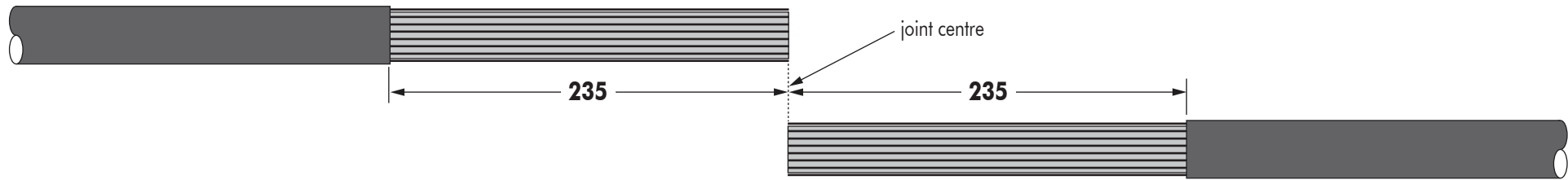
FOR INFORMATION ONLY Please always use the instructions supplied in the kit



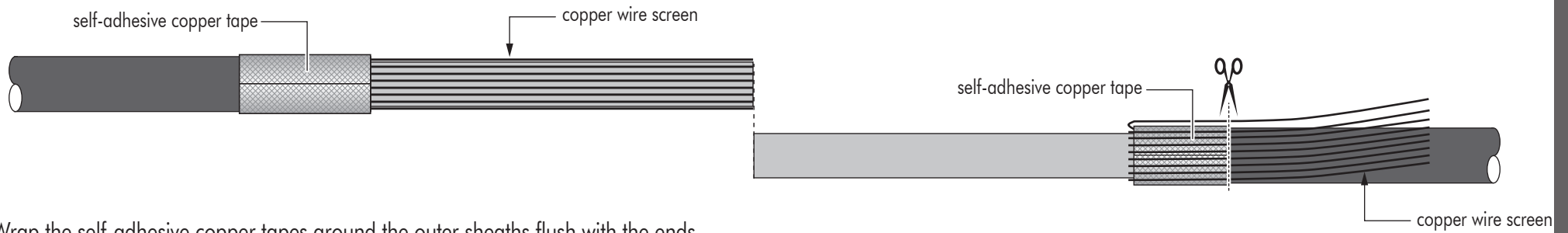
CABLE PREPARATION



- 1 The cables should be free and cleaned over the area indicated in the diagram.



- 2 Remove the outer sheaths for a distance of **235** mm from cable ends.

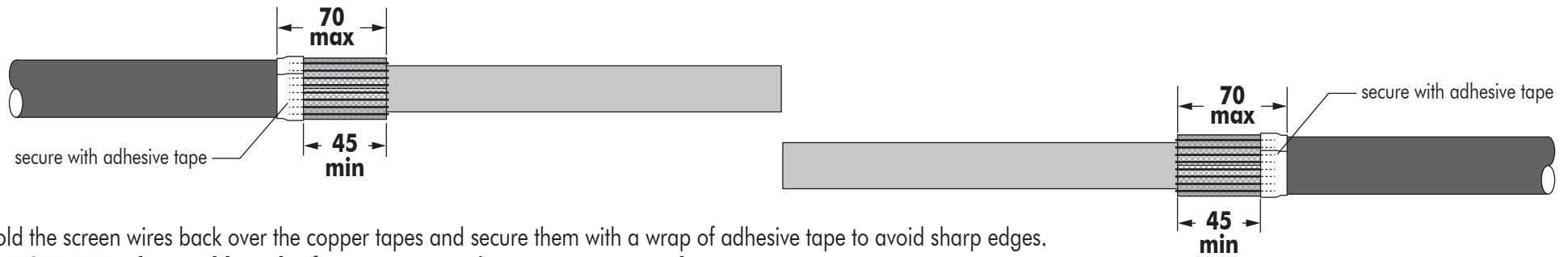


- 3 Wrap the self-adhesive copper tapes around the outer sheaths flush with the ends.
- 4 Fold the screen wires back over the copper tapes and cut at length.

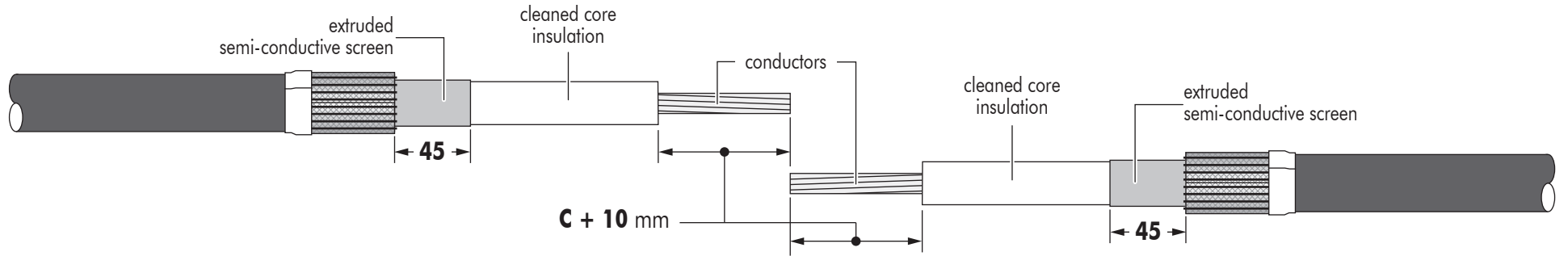


FOR INFORMATION ONLY Please always use the instructions supplied in the kit



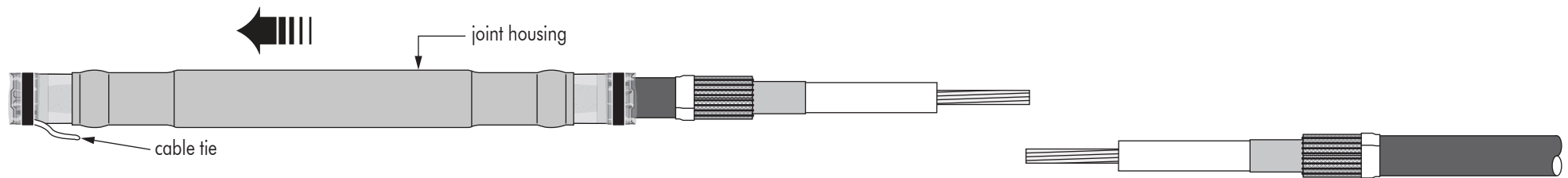


- 5** Fold the screen wires back over the copper tapes and secure them with a wrap of adhesive tape to avoid sharp edges.
IMPORTANT : the total length of screen connection must not exceed 70 mm.



- 6** Remove the extruded semi-conductive screen to a point **45** mm from the outer sheath.
7 Bare the conductors for a distance **C + 10** mm.
 - For connectors **with** centre wall : **C** = depth of connector bore;
 - For connectors **without** centre wall : **C** = 1/2 of the crimp connector length.

- 8 Thoroughly clean core insulation.**



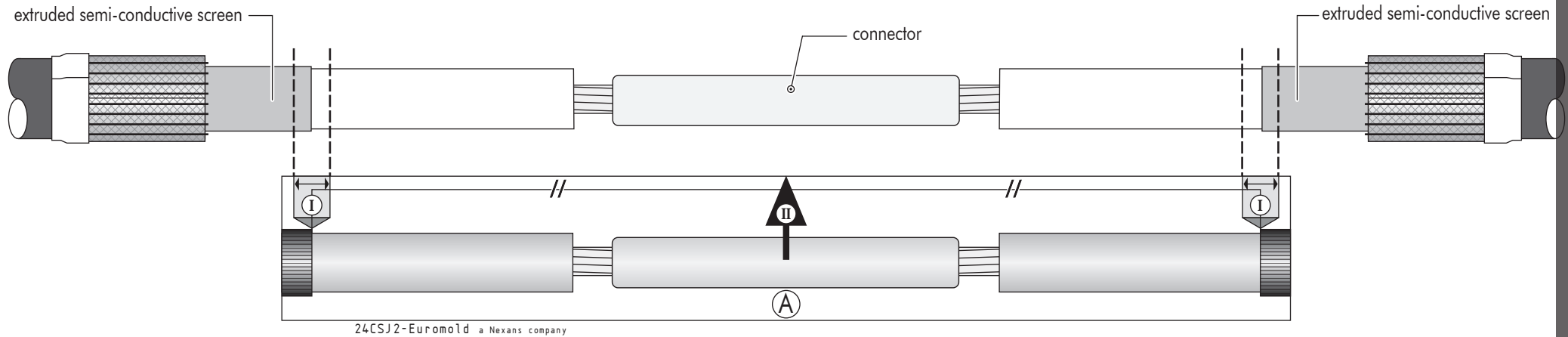
- 6** Slide the joint assembly over one cable, making sure the end with the cable tie goes first over the cable.



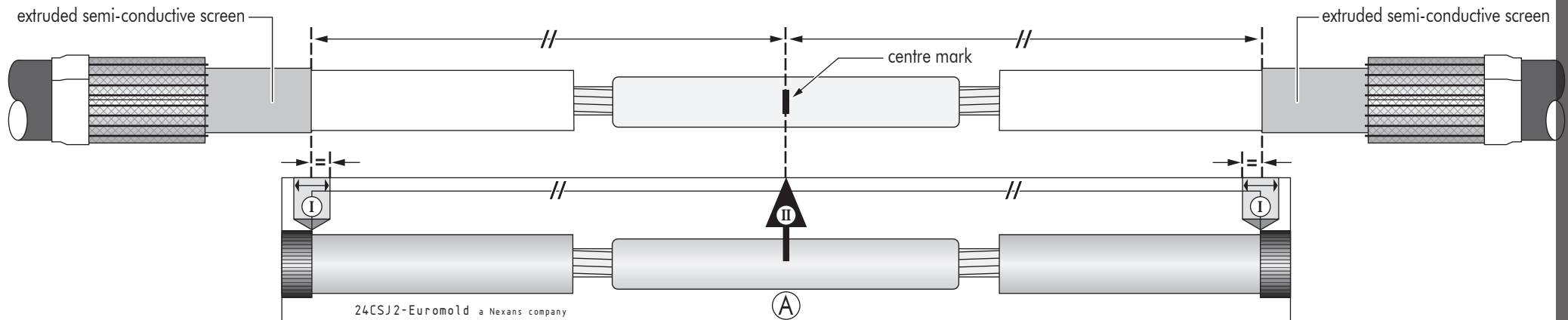
FOR INFORMATION ONLY Please always use the instructions supplied in the kit



INSTALLATION OF THE CONNECTOR AND VERIFICATION OF THE CABLE PREPARATION

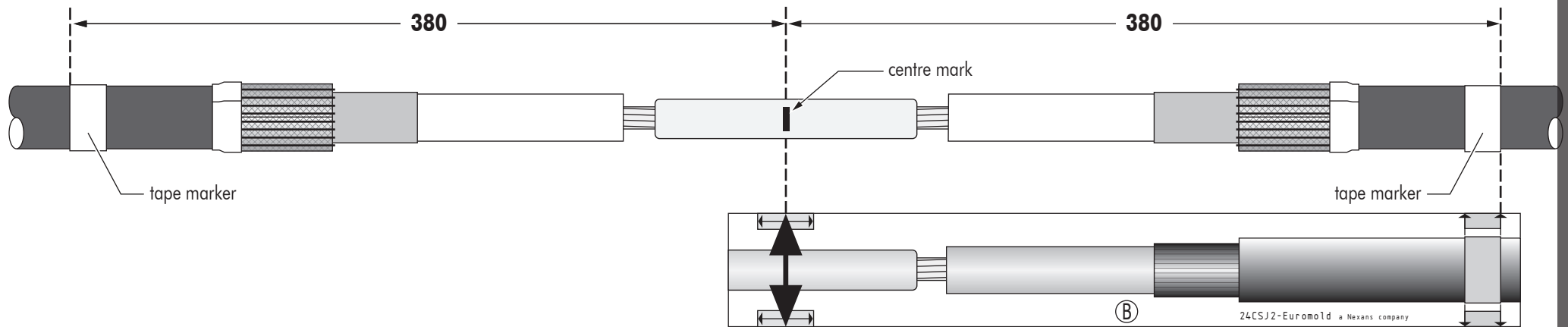


- 1 Install the connector according to the manufacturer's instructions.
- 2 Fit the connector on to the conductors.
- 3 Before tightening, using the template, check that the semi-conductive screen edges are positioned within the red ranges on the template.
- 4 Tighten the connector in accordance with the manufacturer's instructions on the conductors.
- 5 Remove any grease from the crimped connector.



- 6 Centre the template between both semi-conductive screen edges and apply a reference mark on to the connector corresponding to the arrow « II ».
IMPORTANT : The obtained reference point is not necessarily the centre point of the connector.

INSTALLATION OF THE TAPE MARKERS



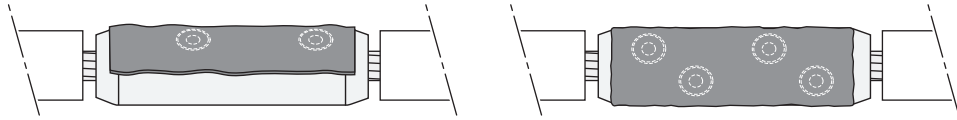
- 1** Apply on both cables a tape marker (5 layers minimum) at a distance of **380** mm from the reference point on the connector.
- 2** **Thoroughly clean core insulation removing all traces of conductive residue.**



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

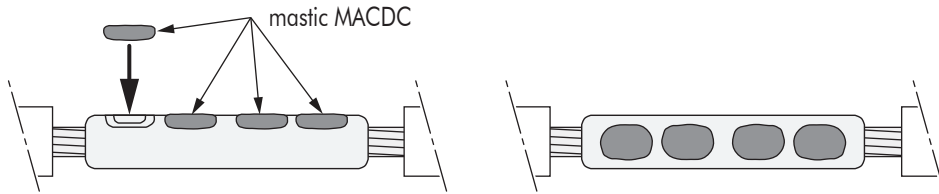


TAPING OF THE CONNECTOR



1 A. For bolted connectors only:

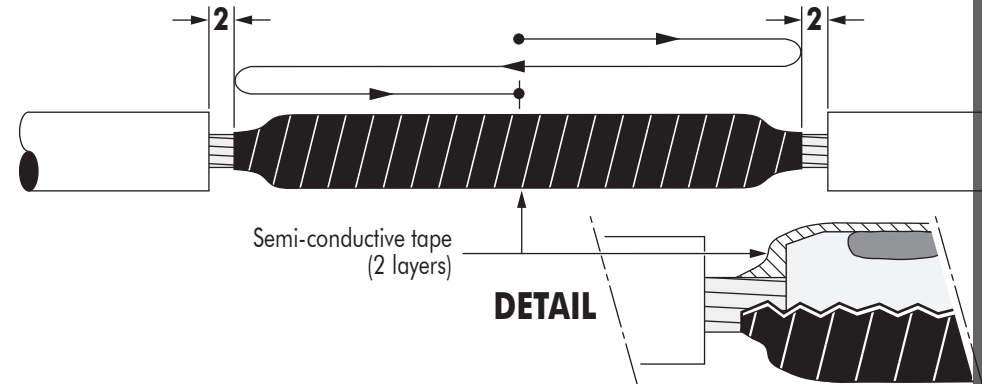
Apply a strip of field control mastic (MACDC) on the bolts.



1 B. For deep indent connectors only:

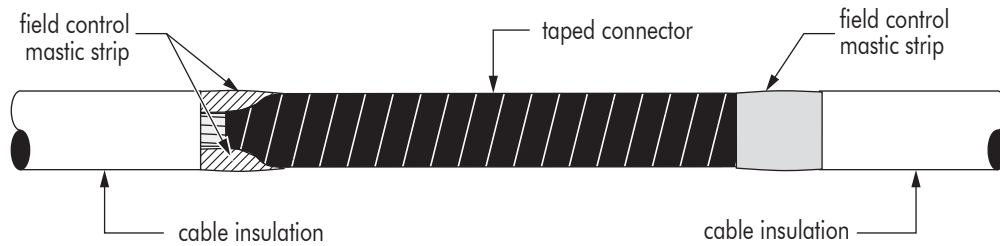
Use one strip of field control mastic (MACDC) to fill the indents.

Do not use the mastic supplied with the connector.

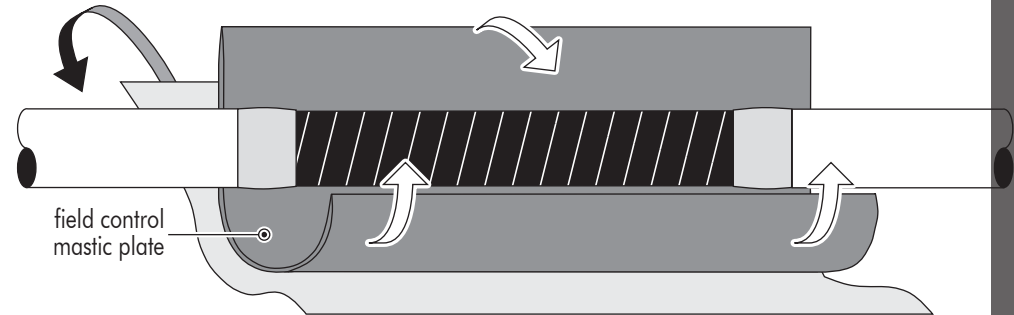


2 Cover the connector and the exposed conductor with 2 layers of semi-conductive tape, starting from the centre of the connector.

Make sure to have a smooth transition between the connector and the exposed conductor, and leave 2 mm of the conductor exposed.



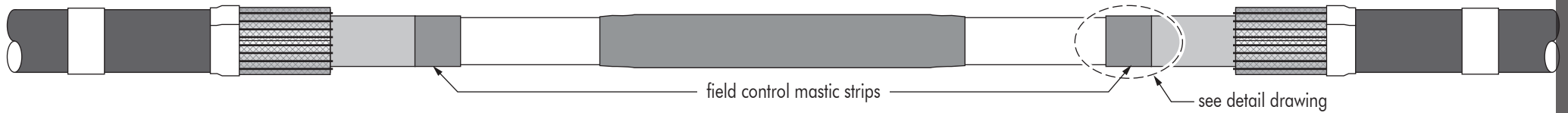
3 Fill the gaps between cable insulation and taped connector using a strip of field control mastic (L = 200 mm) on each side.



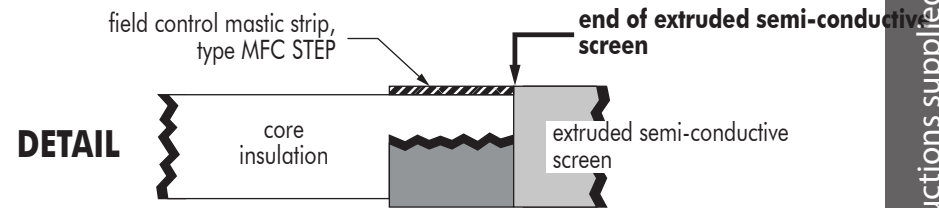
4 Centre and fold the field control mastic plate over the connector.

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

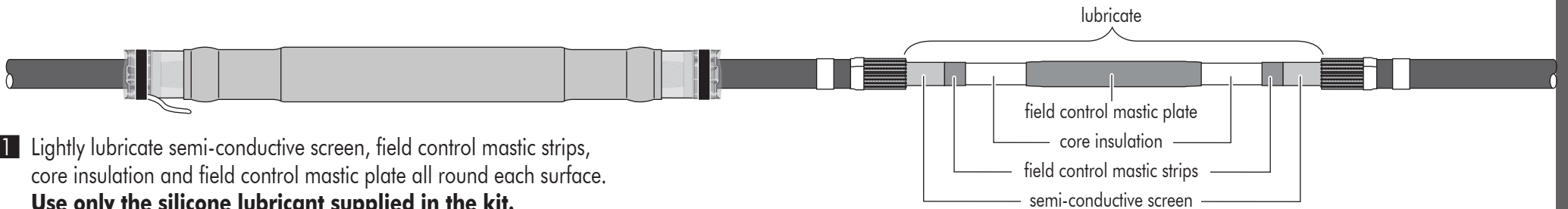
INSTALLATION OF THE FIELD CONTROL MASTIC STRIPS



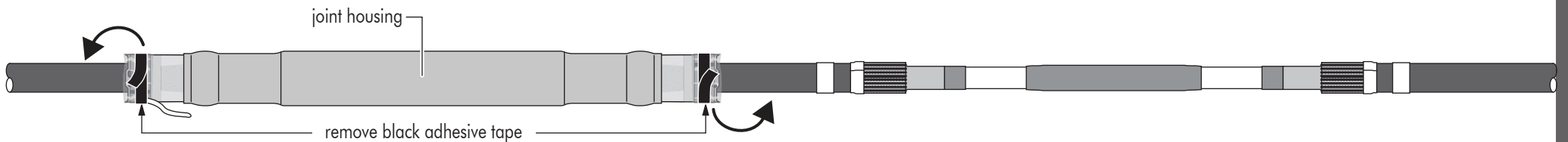
Apply one field control mastic strip (type MFC STEP) on each core insulation flush with the extruded semi-conductive screen (see detail drawing). Do not stretch the mastic strips.



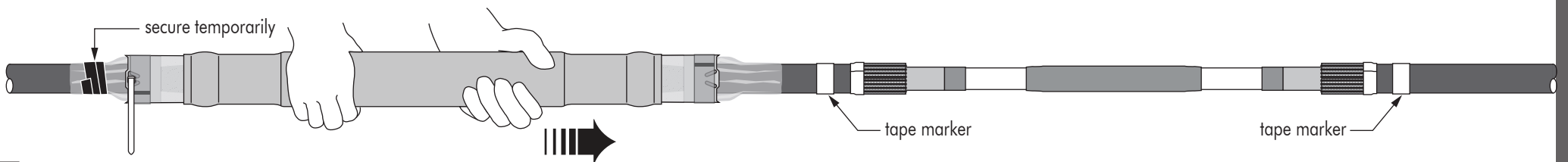
POSITIONING OF THE JOINT HOUSING



- 1 Lightly lubricate semi-conductive screen, field control mastic strips, core insulation and field control mastic plate all round each surface.
Use only the silicone lubricant supplied in the kit.



- 2 Remove the black adhesive tapes on both ends of tubing (**IMPORTANT** : Do not remove the **TRANSPARENT** tapes on both ends).

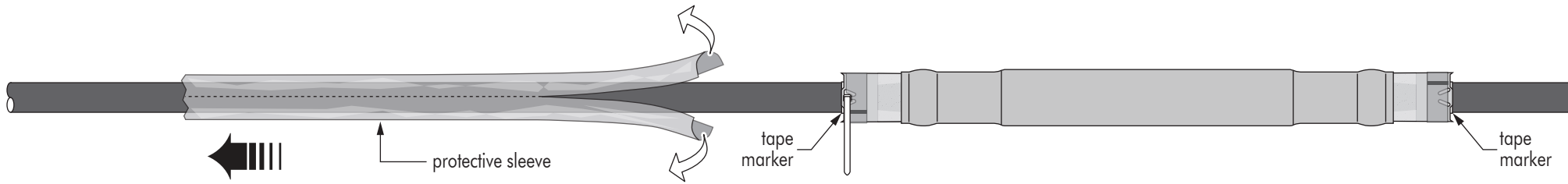


- 3 Temporarily secure the protective sleeve on the cable.
Slide the joint housing over the cable **making sure it is perfectly centred over the tape markers.**



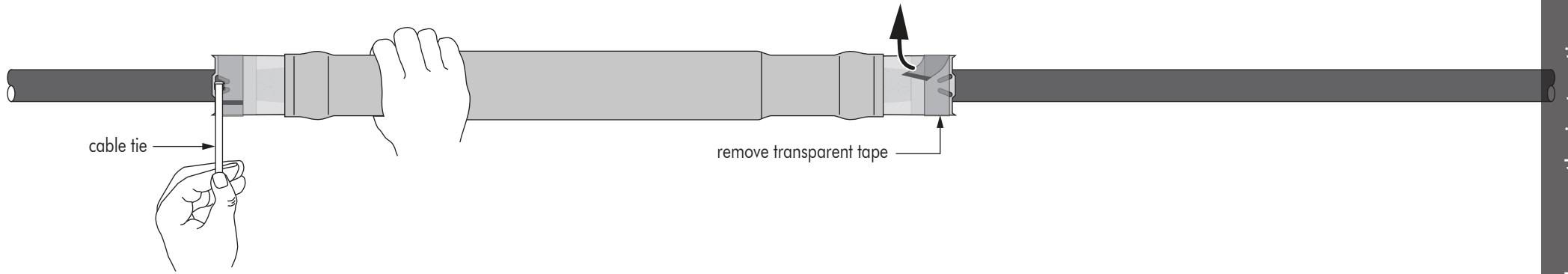
FOR INFORMATION ONLY Please always use the instructions supplied in the kit



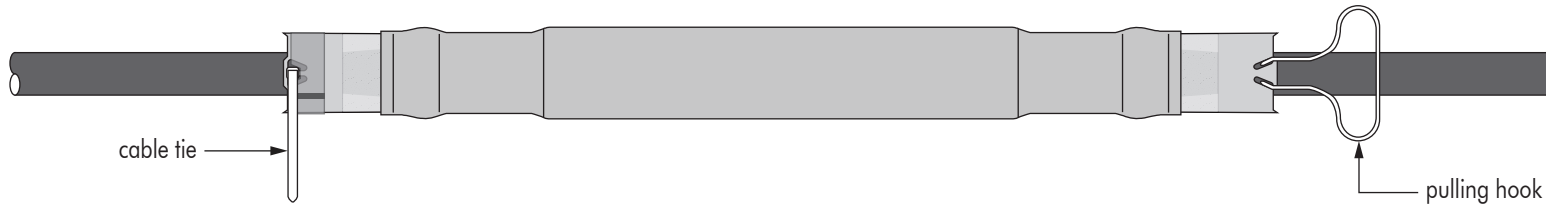


- 4 Remove the protective sleeve from the cable.

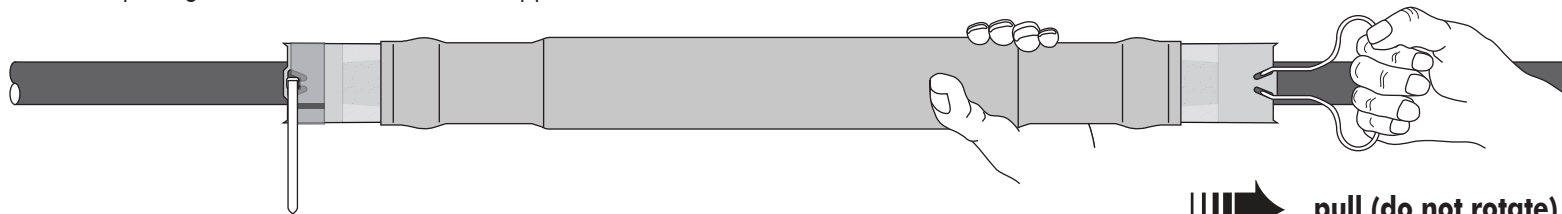
INSTALLATION OF THE JOINT HOUSING



- 1 Secure the joint housing on to the cable by firmly tightening the cable tie on to the marker tape.
- 2 Remove transparent tape from the non clamped plastic tube (opposite end to the cable tie).



- 3 Insert pulling hook into the holes on the opposite side of the cable tie.

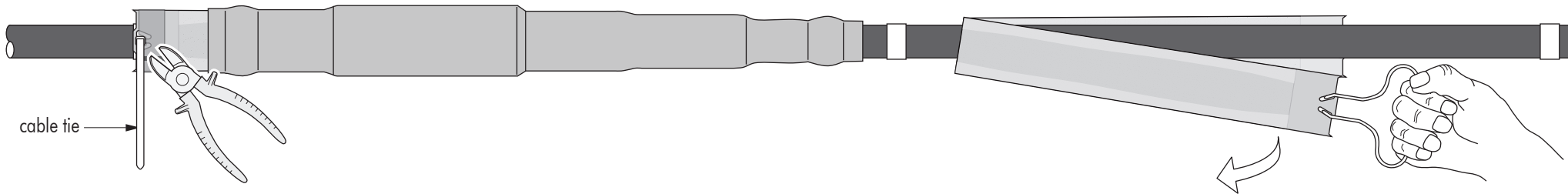


- 4 Hold with one hand the joint housing while pulling out the plastic tube with the other hand.

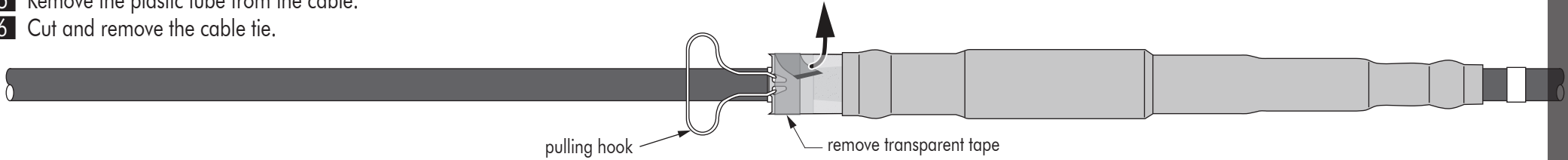


FOR INFORMATION ONLY Please always use the instructions supplied in the kit

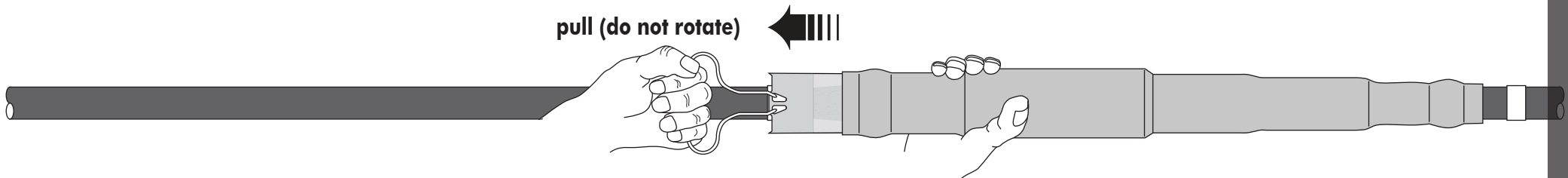




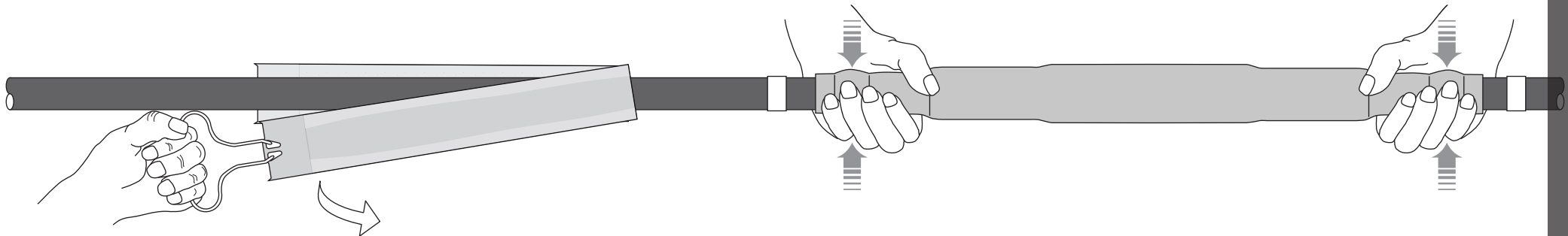
- 5 Remove the plastic tube from the cable.
- 6 Cut and remove the cable tie.



- 7 Remove transparent tape from the second plastic tube.
- 8 Insert the pulling hook in the holes of the second plastic tube.



- 9 Hold with one hand the joint while pulling out the second plastic tube with the other hand.



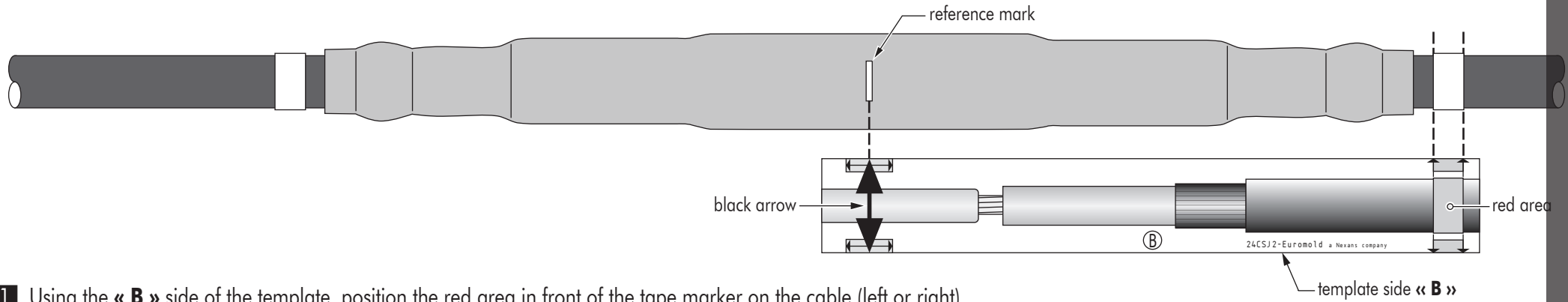
- 10 Remove the plastic tube from the cable.
- 11 Compress by hand the mastic layers on to the outer cable sheaths.



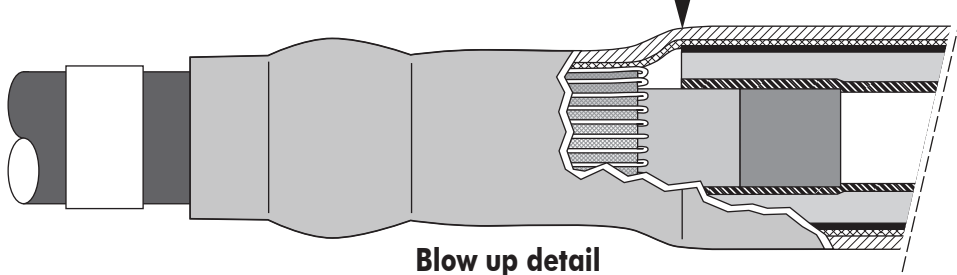
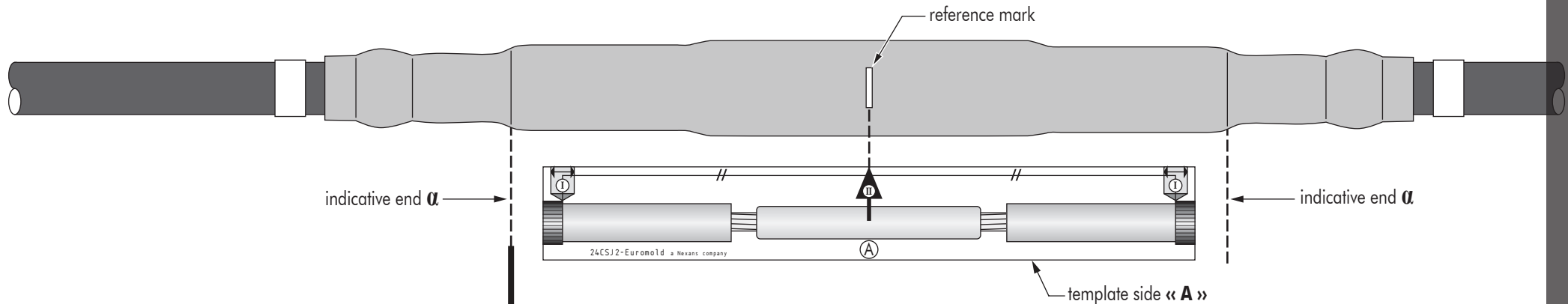
FOR INFORMATION ONLY Please always use the instructions supplied in the kit



VERIFICATION OF THE JOINT POSITION



- 1 Using the « B » side of the template, position the red area in front of the tape marker on the cable (left or right).
Make sure the arrows point at the sides of the tape marker (see figure).
- 2 Using the supplied white pencil, apply a reference mark on the joint housing corresponding to the black arrow position on the template side « B ».



- 3 Using the « A » side of the template, position the black arrow « II » at the reference mark.
- 4 The joint will be installed correctly when both red markers (« I ») on the template side « A » are inside the indicative ends « alpha » of the joint body (see figure).
The joint is not installed correctly if one of the indicative ends « alpha » falls inside the red marker (« I ») or even in the area between the red markers.
- 5 The jointed cable can be energised 30 minutes after installation.