

TC-061-IP
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Joint closure system for telecommunication distribution networks

Kit contents



PEDCAP-R-2

- 1 PEDCAP sleeve with integrated MVT layer
- 2 SCOP-200
- 1 Abrasive strip
- 1 Aluminium cable foil
- 1 Cleaning tissue
- 1 Tie-wrap
- 1 Installation instruction
- 1 Dessicant (Silicagel)

PEDCAP-R-3

- 1 PEDCAP Sleeve
- 1 MVT Aluminium bag
- 3 SCOP-200
- 2 Abrasive strips
- 1 Aluminium cable foil
- 2 Cleaning tissues
- 2 Tie-wraps
- 1 Installation instruction
- 1 Dessicant (Silicagel)

PEDCAP-R-4S/4L

- 1 PEDCAP Sleeve
- 1 MVT Aluminium bag
- 4 SCOP-200
- 2 Abrasive strips
- 1 Aluminium cable foil
- 2 Cleaning tissues
- 2 Tie-wraps
- 1 Installation instruction
- 1 Dessicant (Silicagel)

Safety rules

- Check manhole for the presence of gas and follow prescribed precautions.
- When working with open flame, use standard safety equipment such as gloves, safety glasses etc. ... as required.

Specification

A closure approved for use on underground/aerial distribution cables. SCOP-200 must be fitted to each cable. SCOP-200 is also available separately. Packaging: 500 pcs/box. For small cables up to 8 mm use SCOP-100.

Recommended torches

Propane torch e.g. • torch FH-T001-0005
nozzle: FH-T001-0020
• torch FH-1630-PIE
nozzle: FH-1630-PIE-BN28

Jointing information

Description	Joint length max.	Joint bundle max. diam.	Max. number of cables
PED-CAP-R-2-INT	200mm	50mm	3
PED-CAP-R-3-INT	120mm	57mm	4
PED-CAP-R-4S-INT	250mm	84mm	4
PED-CAP-R-4L-INT	350mm	84mm	6

Sizing information

Description	Max. cable bundle diam. without SCOP	Min. cable bundle diam. without SCOP	Max. looped cable diam.
PED-CAP-R-2-INT	30mm	16mm	2 X 18
PED-CAP-R-3-INT	40mm	11mm	2 X 23
PED-CAP-R-4S-INT	60mm	25mm	2 X 28
PED-CAP-R-4L-INT	60mm	25mm	2 X 28

Installation procedure

- 1 Remove cable sheath(s) to a maximum dimension as described in the jointing information.
- 2 Where applicable, install screen continuity (not included in the kit).
- 3 Make the joint according to approved practice.
- 4 Arrange completed joint in such a way that the bundle length and bundle diameter fit into the corresponding PEDCAP size.



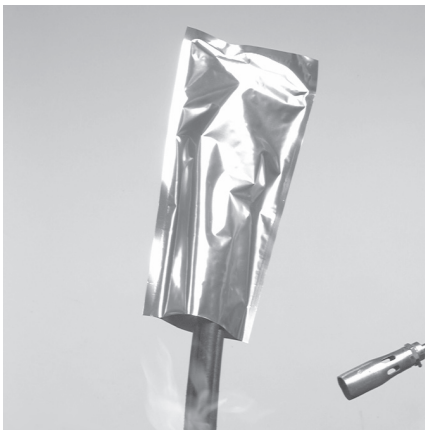
5 Protect the splice with local approved tape.



6 Using the kitted cleaning tissues, clean the cables for a distance of about 300 mm starting from the cable sheath cut.



7 Using the kitted abrasive strip, abrade the cables circumferentially over a distance of about 150 mm for PEDCAP-R-3 and 250 mm for PEDCAP-R-2 and PEDCAP-R-4S/4L, from the sheath cut.



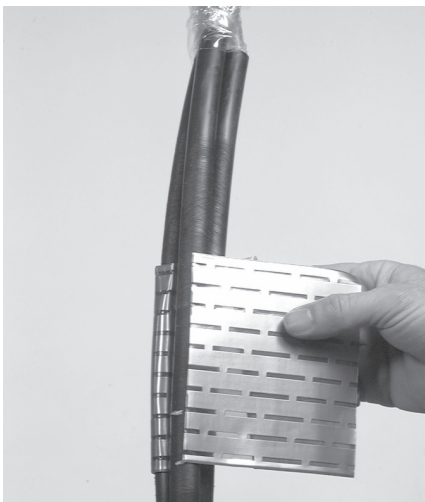
8 **For PEDCAP-R-3 and PEDCAP-R-4S/4L** temporarily position the aluminium bag over the joint to protect joint and conductors from damage (flame protection). Do not tape. Flame brush the abraded area of each cable for 10 seconds.



9 Position the PEDCAP completely over the joint. Mark the cables at the bottom of the PEDCAP and remove the PEDCAP and aluminium bag.



10 Place a second mark on the cables 30mm below the first mark **(for PEDCAP-R-3, R-4S and R-4L only)**.



11 Install one SCOP on EACH cable, positioning them between the LOWEST mark and the completed joint. Apply SCOP tightly around each cable in the direction as shown on the backing paper, not more than two layers. **Note: for cables with diameter less than 8mm: the SCOP-200 may be cut longitudinally in halves following the cable drawing on the backing paper. Apply one half to each small cable in the direction as shown on the backing paper.**



12 Apply one layer of aluminium cable foil around each cable. Start at the 3rd SCOP slot from the end, away from the completed joint, in the direction of the cables. Smooth the foils with a blunt tool.



13 Tie-wrap the two main cables together. It is important that they touch each other.



14 Position the cables following the drawing:
 1 + 2 Main cables
 3,4,5 and 6 Branch cables
 (See max. number of cables in the table page 1).

Notes for heating

Regulate flame to a total length of about 200 mm with a yellow tip of about 100mm.

Important: During shrinking, move the flame continuously to avoid local overheating and damage.



15 **For PEDCAP-R-3 and R-4S/4L** form the cables into a tight bundle (secure the silicagel to the joint). Slide the aluminium bag completely over it and secure with PVC or heat resistant tape. Do not tape more than 20 mm, or the second slot, onto the SCOP.



16 Install the PEDCAP over the joint and start shrinking the PEDCAP from where the Thermo-indicating (TI) paint is applied on the body and move towards the end of the closure, converting all TI paint to black.



17 Continue heating with a soft flame until the adhesive flows at the end of the PEDCAP and **between ALL the cables**.



18 Leave the closure undisturbed for a minimum of 30 minutes.

Quality installation checks

- * All TI paint has been converted to black.
- * Adhesive flows around the circumference of the recovered PEDCAP end and in all gaps between the cables.
- * Each cable has been fitted with a SCOP.
- * All SCOPs should be covered by aluminum cable foil at the protruding ends of the PEDCAP.

Re-entry & reclosing procedure

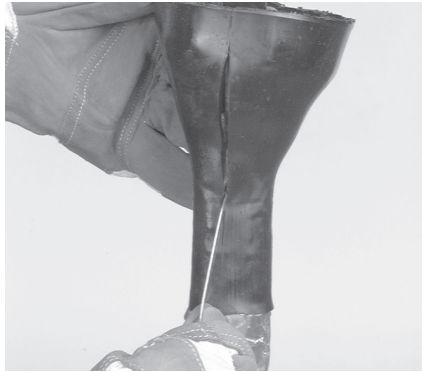
A Re-entry

Safety rules

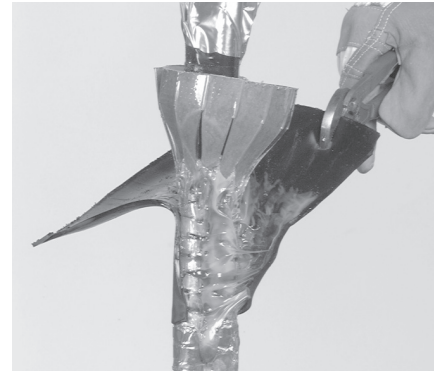
- Check manhole for the presence of gas and follow prescribed precautions.
- When working with open flame, use standard safety equipment such as gloves, safety glasses etc. as required.



1 Make a ring cut with a hacksaw at the top of the transition area, without damaging the installed joint and conductors. Remove the dome of the PEDCAP.



2 Heat the recovered sleeve area. Make a longitudinal cut in the pre-heated sleeve area without damaging cables or joint.



3 Remove the pre-heated sleeve with a pair of pliers. **Note:** when removing a PEDCAP-R-4S/4L, if present, remove any inner cardboard liner. Apply additional heat to facilitate removal if required. Remove the taped aluminium bag completely. **Note:** it is not required to remove SCOP or adhesive from the cables. Protect all cooled adhesive with local approved tape.

B Reclosing

Safety rules

- Check manhole for the presence of gas and follow prescribed precautions.
- When working with open flame, use standard safety equipment such as gloves, safety glasses etc. as required.

Important

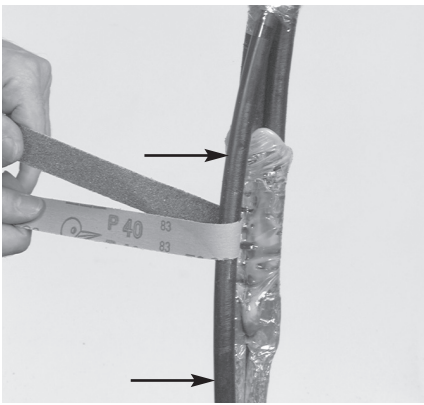
- **If no cable is added, proceed with step 15-18.**
- **In case an augment is required, the following installation steps apply "ONLY TO THE ADDED CABLE".**

1 Remake the joint according to approved practices.

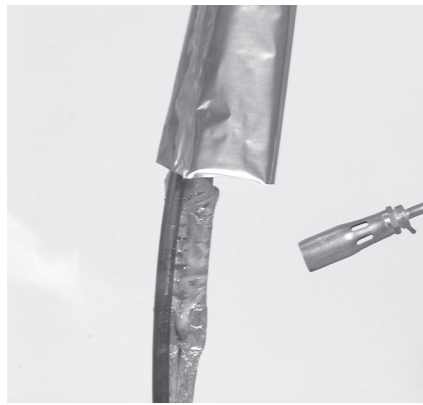
2 Arrange the completed joint in such a way that bundle length and bundle diameter fit into the corresponding PEDCAP size.



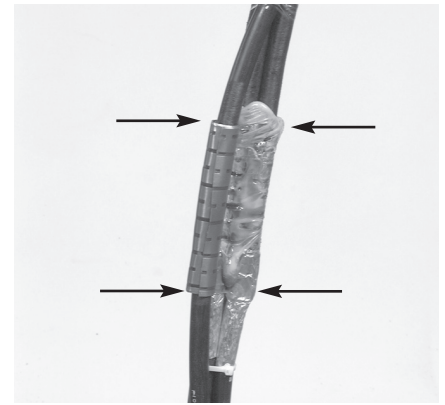
3 Protect the splice with local approved tape.



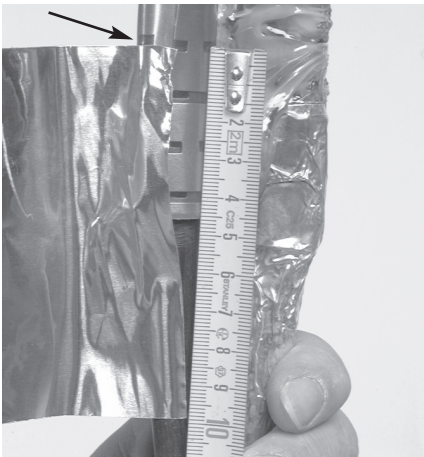
4 Clean the added cable, using the kitted cleaning tissues. Using the kitted abrasive strip, abrade the added cable in the area of the SCOP (installed on the other cables). **Remove temporarily installed local approved tape from existing SCOP.**



5 Temporarily position the Aluminium bag over the joint to protect joint and conductors from damage (flame protection). Do not tape. Flame brush the abraded area of each added cable for 10 seconds.



6 Install SCOP at the same position as existing SCOP on the other cables.



7 Apply one layer of aluminium cable foil around the ADDED cable. Start at 30 mm, or the 3rd SCOP slot from the end, away from the completed joint, in the direction of the cables. Smooth the foil with a blunt tool.



8 Remove the tie-wrap from the cable bundle.



9 Apply a new aluminium cable foil over the existing cable bundle.



10 Position the cables following the drawing:
 1 + 2 Main cables
 3,4,5 and 6 Branch cables
 (See max. number of cables in the table page 1).



11 **For PEDCAP-R-3 and PEDCAP-R-4S/4L** form the cables into a tight bundle (secure the silicagel to the joint). Slide the aluminium bag completely over it and secure with PVC or heat resistant tape. Do not tape more than 20 mm, or the second slot, onto the SCOP.

12 Continue the installation as described in the initial instruction: step 16 through 18.

Quality installation checks

- * All TI paint has been converted to black.
- * Adhesive flows around the circumference of the recovered PEDCAP end and in all gaps between the cables.
- * Each cable has been fitted with a SCOP.
- * All SCOPs should be covered by aluminum cable foil at the protruding ends of the PEDCAP.