

TC-173-IP
Rev A, Mar 2017
www.commscope.com

Depressurized telephone repair kit

Selection table (all dimensions in mm)

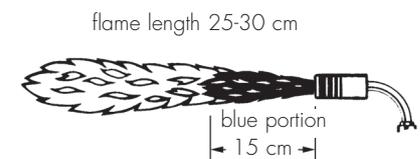
RDRK-C	Cable range diameter	Max. diameter of trouble bundle	Max. cable sheath opening
RDRK-C 45/15-330		15 mm min.	100
500	40 mm max.	40 mm	250
700			500
RDRK-C 65/20-330		30 mm min.	100
500	60 mm max.	60 mm	250
700			500
RDRK-C 95/30-330		30 mm min.	100
500	90 mm max.	90 mm	250
700			200

Example: Cable diameter is 45 mm. Trouble bundle has diameter of 55 mm and jacket opening is 200 mm. Select RDRK 60/20-500.

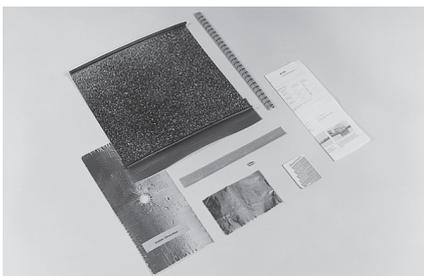
Recommended Safety Rules

- check manhole for gas
- use safety glasses and safety gloves when working with open flame.

Flame description

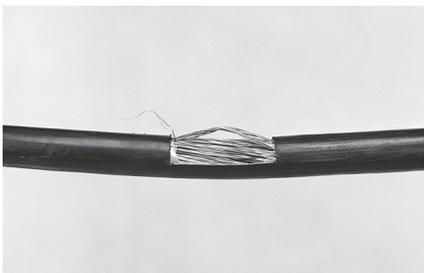


Use a CommScope torch FH-1630-PIE-BN28 or equivalent.

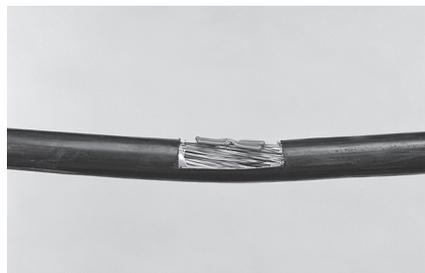


Kit contents

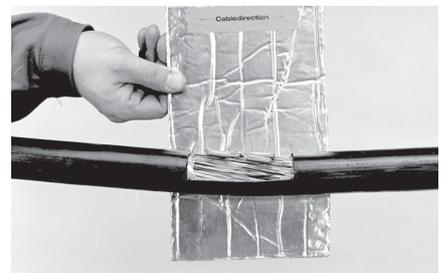
1. Heat-shrinkable sleeve
2. Stainless steel channel (s+underclip)
3. Cleaning tissue
4. Abrasive strip
5. Aluminium foil
6. Installation instruction
7. Aluminized liner



1 Relieve pressure of the cable and allow complete bleeding before installation. Leave the cable vented during the entire cable repair installation. Clean the cable and damaged area with clean and dry cloth.



2 Select the appropriate kit according the distorted area and trouble bundle. Trim away the PE-sheath of the cable, respecting the maximum recommended opening. Repair damaged conductors with local approved method. If complete removal of jackets is needed, repair earthing of cable.



3 Take alu-liner and preposition it according to the cable direction as indicated on label.



4 Remove the protective sheet from the liner.



5 Install the liner around the cable opening such that the middle of the liner matches the middle of the splice. Wrap tightly around the cable and smooth alu-liner; cut it to size such that there is a 40 mm overlap.



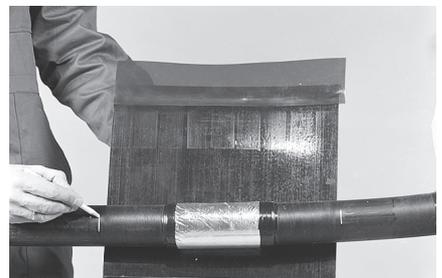
6 Tape, the liner down onto the cable on both ends. Tape maximum 5 mm on the cable to avoid shortening of the bondlength.



7 Clean the entire circumference of the cable jacket over a length of 200 mm on each side of the liner. Use a cleaning tissue supplied in the kit.



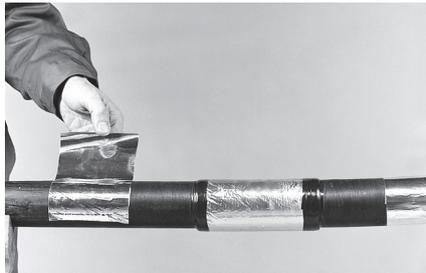
8 Abrade the cleaned area of the cable circumferentially. Remove abrasion dust with a clean, dry cloth.



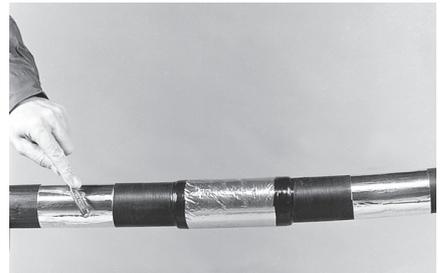
9 Position the heat-shrinkable sleeve over the splice so that it covers the cables on an equal distance. Mark the ends of the sleeve on the cable jacket.



10 Add a second mark at 10 mm nearer to the bundle.



11 Apply aluminium foil on the cable jacket from inner mark, away from splice. On lead cables the aluminium foil is not needed.



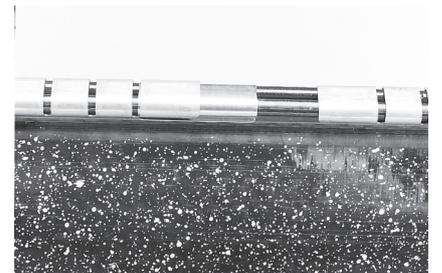
12 Smooth the aluminium foil with a blunt tool to avoid sharp edges.



13 Flame brush the entire cable surface to be covered by sleeve for about 10 seconds on each side of the splice. For lead cables preheat the lead up to $\pm 60^{\circ}\text{C}$ (hot to the touch).



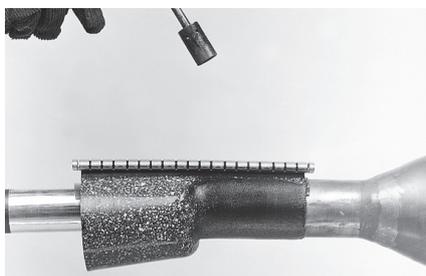
14 Install the heat-shrinkable wraparound sleeve around the splice. Pull the channel over the rails.



15 In case of 700 length press first the underclip over the rail at the center, then pull the two channels over the rails until they butt on top of the underclip.



16 Center the sleeve and start recovering it in the middle on the opposite side of channel. Heat until the paint changes colour from green colour to black.



17 Recover the sleeve up to the end, moving the flame circumferentially until the paint has changed colour from green to black. Apply extra heat to the end of the sleeve around the cable end for about 30 seconds.



18 Repeat step 17 at the other end of the sleeve. Allow the sleeve to cool down to ambient temperature before any handling and repressurizing the cable.

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