COMMSCOPE®

RCRS
INSTALLATION INSTRUCTION

TC-172-IP
Rev A, Mar 2017
www.commscope.com

Pressure Cable Repair Sleeve

Selection table (all dimensions in mm)

RCRS-C-size	Cable range diameter	Max. diameter of trouble bundle	max. cable sheath opening
RCRS-C 45/15-350		15 mm min.	100
500	40 mm max.	40 mm	250
700			500
RCRS-C 65/20-350		20 mm min.	100
500	60mm max.	60 mm	250
700			500
RCRS-C 95/30-350		30 mm min.	100
500	90 mm max.	90 mm	250
700			500

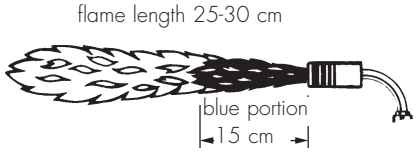
Kit contents

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

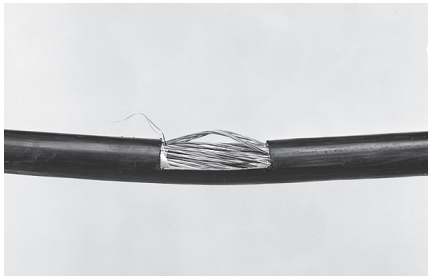
Recommended Safety Rules

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

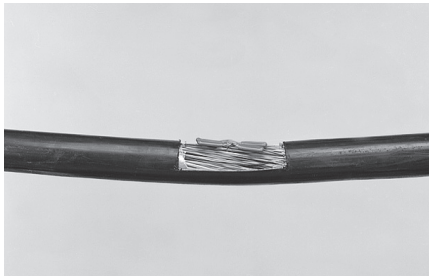
Flame description



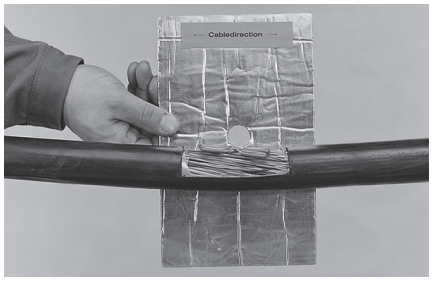
Use a CommScope torch FH-T001-0020 or equivalent.



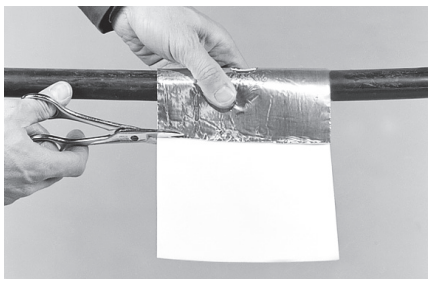
1 Remove with a dry cloth all dirt and grease from the cable in the damaged area. Select sleeve according to the cable diameter and size of damaged area and remove the jacket as recommended above.



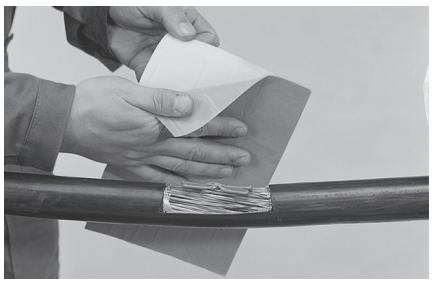
3 Repair, in accordance with locally approved methods, the damaged conductors. If jacket is circumferentially removed, repair the earth continuity system.



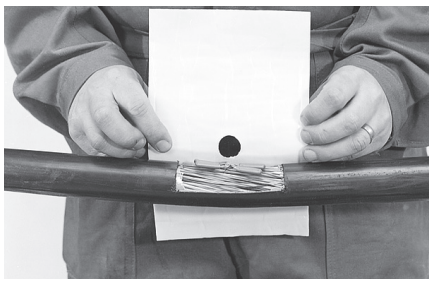
3 Take the alu-liner which will be installed around cable opening area. Verify the indication of the cable direction. The hole of the liner is positioned in the middle of splice opening.



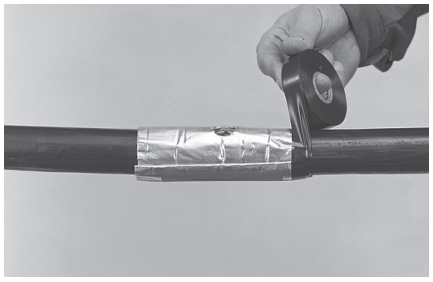
4 If necessary cut the alu-liner to length such that the hole in the liner is not closed by overlapping.



5 Remove the protective sheet from the liner.

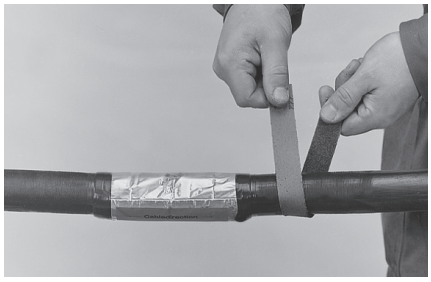


6 Wrap the liner smoothly and tightly around the splice. Avoid sharp edges.

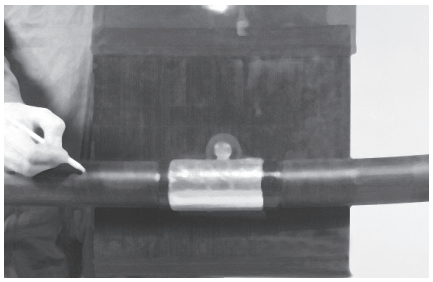


7 Tape both ends of the liner down onto cable. Tape maximum 5 mm onto the cable to avoid shortening the bondlength.

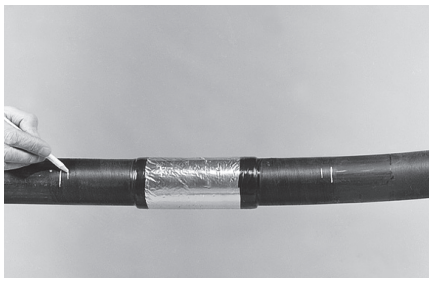
8 Clean the entire circumference of the cable jacket over a length of 200 mm on each side of the liner. Use the cleaning tissue supplied in the kit.



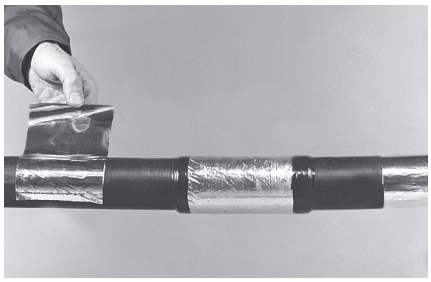
9 Abrade the cable circumferentially over the cleaned area. Remove abrasion dust with a clean, dry cloth.



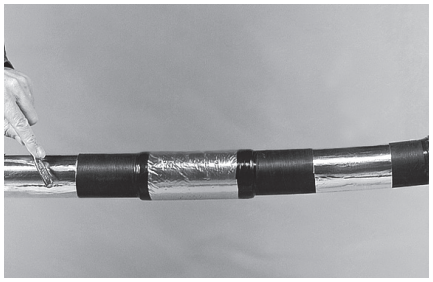
10 Position the valve of the wraparound sleeve over the hole and mark the ends of the sleeve on the cable jacket.



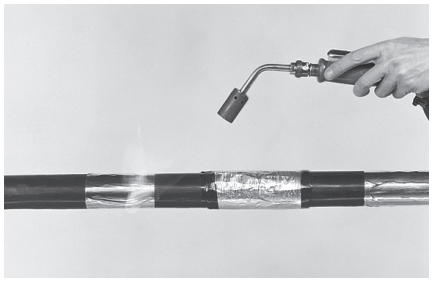
11 Add a second mark at 10 mm nearer to the bundle.



12 Apply aluminium foil on the inner mark, away from the splice. The aluminium foil is not needed for lead sheathed cables.



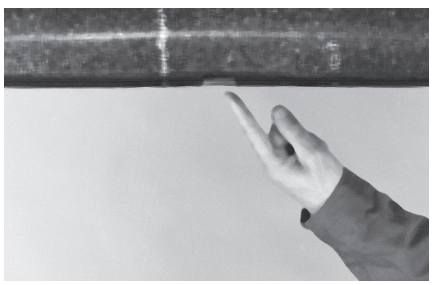
13 Smooth the aluminium foil with a blunt tool to avoid sharp edges.



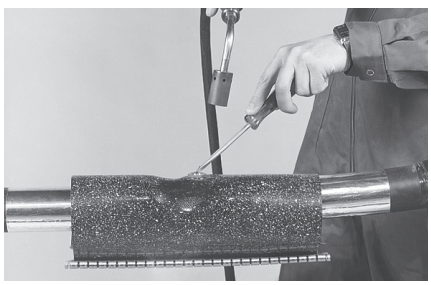
14 Flame brush the areas between the aluminium foil and the aluminized liner for ca. 10 seconds.
Do not point the flame directly at the hole in the liner.
For lead substrates: preheat the lead up to ±60°C (hot to the touch).

15 Remove the plastic cap of the valve so that the air in the cable can still escape. Don not tighten the nut yet.

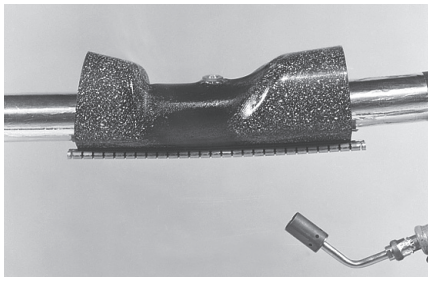
16 Wrap the heat-shrinkable sleeve around the splice and pull the channel over the rails. Locate the sleeve such that the valve sits on the hole of the liner.



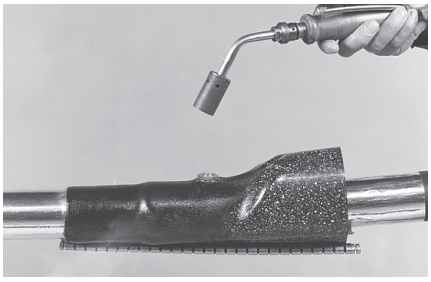
17 In case of the 700 length: press first the underclip over the rail at the center, then pull the two channels over the rails until they butt on top of the underclip.



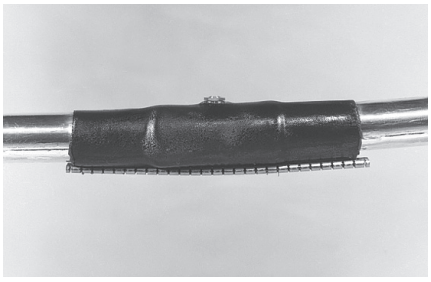
18 Start recovering the sleeve area around the valve and in the center of the sleeve between valve and channels. The valve can be held in position by using a small tool e.g. screwdriver.



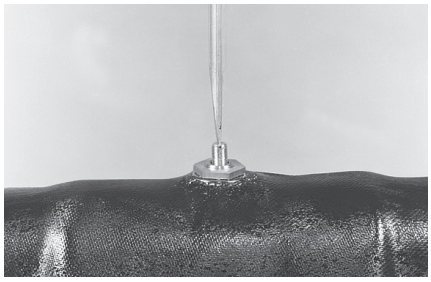
19 Move gradually towards the channel area and heat until the entire center section of the sleeve has changed colour from green to black.



20 Recover the sleeve up to the end, moving the flame circumferentially until the paint has changed completely.
Apply extra heat to the end of the sleeve around the cable for about 30 seconds to ensure a good adhesive flow.



21 Repeat step 19 + 20 at the other end of the sleeve.



22 After the sleeve has cooled down to ambient temperature, insert the valve plug and tighten the valve nut.

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