COMMSCOPE®

ACBS-T
INSTALLATION INSTRUCTION

TC-356-IP-T
Rev A, Mar 2017
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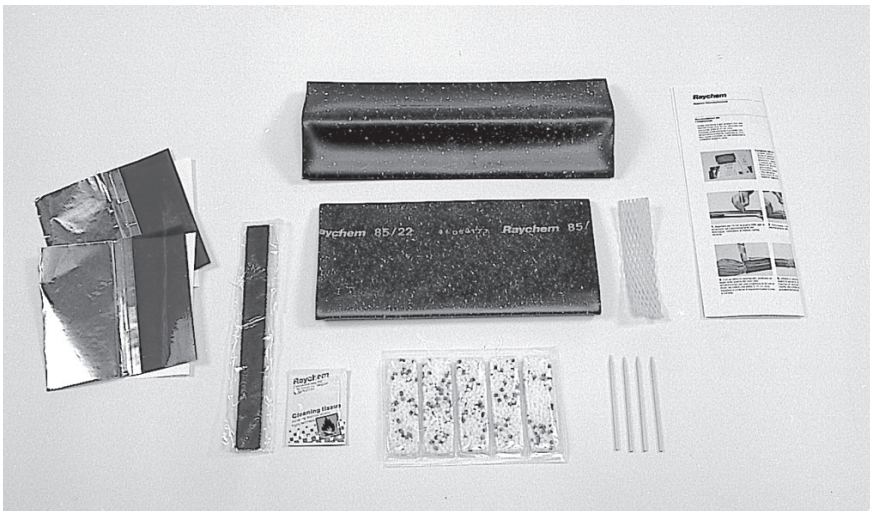
Tubular pressure and water block system for aircore telephone cables up to and including 400p.4



Kit content

- Tubular sleeves (two pieces)
- Adhesive bags
- Net tubing
- Channelling pins
- Adhesive cable wraps
- Cleaning tissue
- Abrasive strip
- Installation instruction

Safety rules

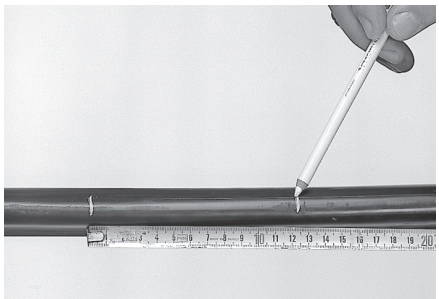
- Check manhole for presence of gas and follow locally prescribed precautions.
- When working with open flame, use standard safety equipment such as gloves, safety glasses etc... as required by local practices.

FOR SOLID INSULATION ONLY.
Not to be used on filled cable or paper or pulp insulated conductors.

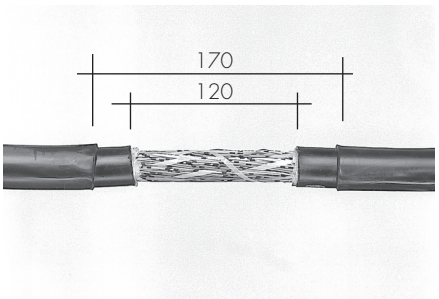
Selection table (Dimensions in mm)

	Cable diameter*	
Kit size	maximum	minimum
ACBS-T-18/12	18	12
ACBS-T-24/18	24	18
ACBS-T-30/22	30	22
ACBS-T-40/30	40	30
ACBS-T-45/40	45	40

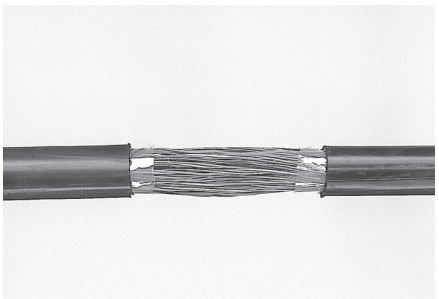
*** Note:** for double jacket cable; the cable dimensions refer only to the inner jacket dimensions.



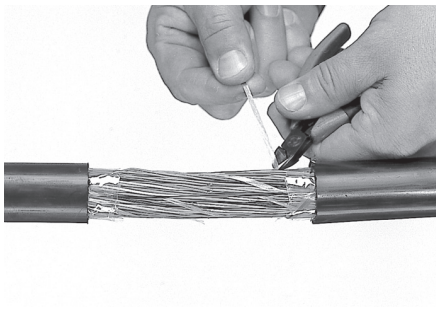
1. Using locally approved techniques and tools, remove the cable jacket over a distance of 120 mm.



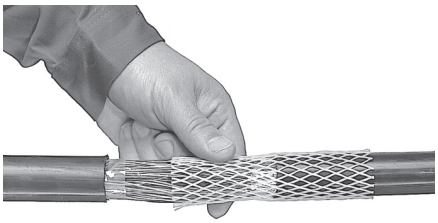
2. For double jacket cable, remove the outer jacket and shield over a distance of 170 mm and the inner jacket over a distance of 120 mm.



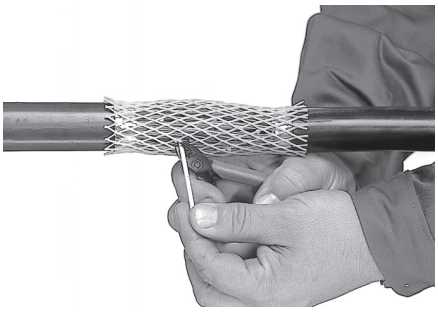
3. Remove the cable wraps but leave 10 mm on each side of the cable opening.



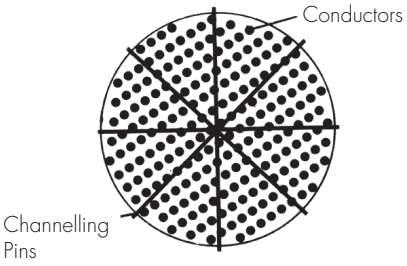
4. Remove all unit tapes in the cable opening. Spread the conductors evenly so that there are no groups of conductors tightly bundled. The conductor bundle diameter should be about 5 mm to 10 mm larger than the original cable core diameter.



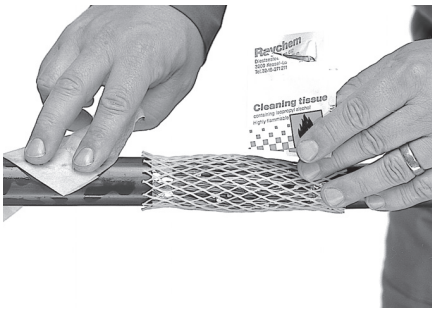
5. Slide and centre the net tubing over the cable opening.



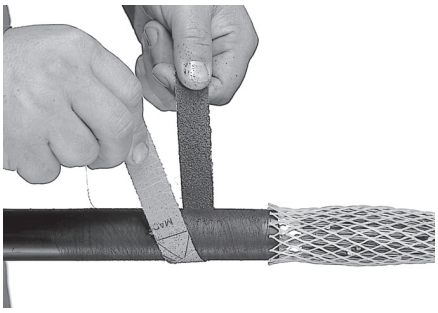
6. Place the channelling pins through the conductors at 10 mm from each other. Insert completely and cut-off the excess. Use the left over pieces until the pin is totally used up. Do not force the channelling pin.



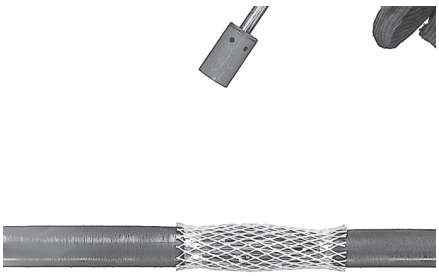
7. The angle of each channelling pin should be different and placed so that each pin forms an angle of 45° from each other.



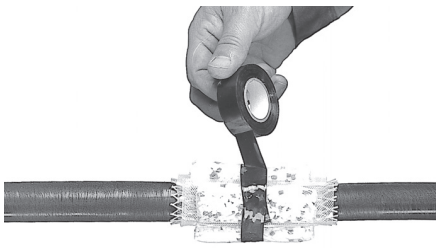
8. Remove the cleaning tissue from its packaging and clean the cable jacket on both sides of the cable opening over a distance of 100 mm.



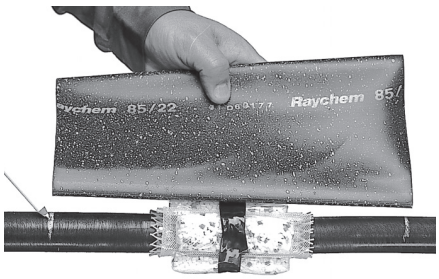
9. Abrade the cable circumferentially over the cleaned distance.



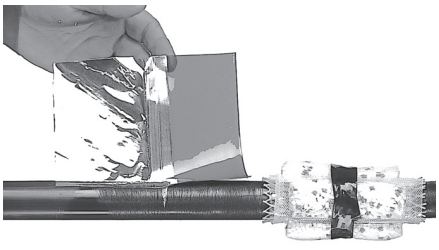
10. Flame brush the cleaned and abraded cable jacket for 10 sec. Point the flame away from the cable opening. Make sure that the entire cable surface is touched by the flame.



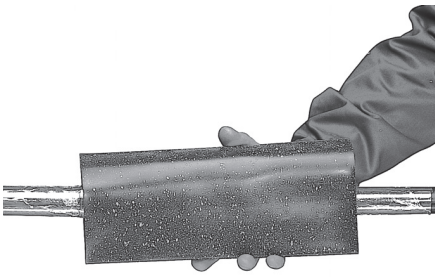
11. Wrap the adhesive bags around the cable opening, mesh side down. Secure in the middle with PVC-tape.
Note: the adhesive bags should NEVER overlap.



12. Centre the shortest tubular sleeve over the adhesive bags and mark the tube ends on the cable.

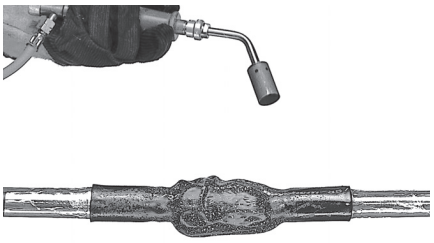


13. Apply the adhesive cable wrap with the adhesive portion next to the net tubing. The aluminium part of the cable wrap is positioned a thumb's width from the mark nearer to the adhesive bags. Smooth the aluminium foil with a blunt tool.

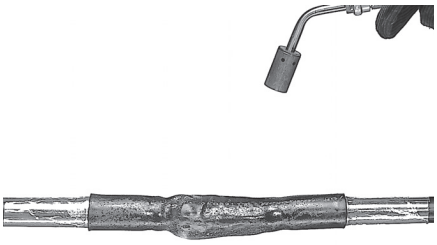


14. Slide and centre the shortest tube over the adhesive bags.

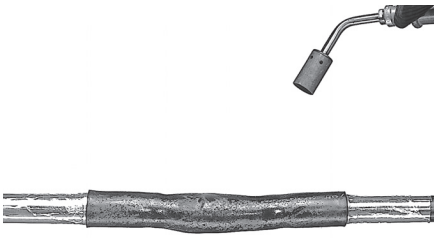
15. Start heating at one end of the tube. Shrink the tube end over a distance of approximately 70 mm. Apply heat until all the temperature indicating paint has changed colour from green to black. Move flame continually to avoid local overheating.



16. Repeat the procedure on the other end of the tube.

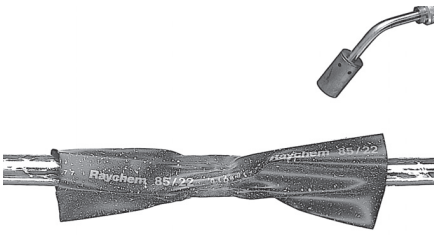


17. Circumferentially shrink the middle part of the tube until all the paint is converted.

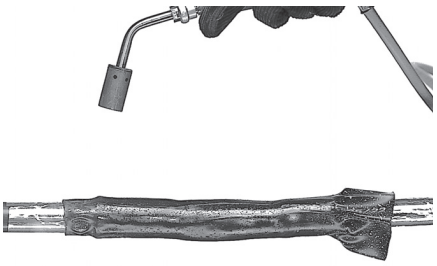


18. After complete installation of the tube give a post heating of 15 seconds around the middle of the tube.

19. Immediately slide over and centrally position the longer tube over the installed and post heated tube.



20. Shrink the middle part of the tube first, followed by both ends.



21. Apply heat until all the paint is converted.

22. After complete installation of the second tube give a post heating of
15 seconds around the middle of the tube.

23. After installation allow the block to cool to ambient temperature before moving the cable.
Pressurise the cable after 24 hours.

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