

KOS 550 Heat Shrinkable Wraparound Non-Pressurised Closure for Copper Distribution Networks (Installation Instructions)



KOS 550 Application

The KOS 550 Kit Non-Pressurised closures are used in the underground distribution cable network to house in-line joints of up to 200 pairs. The closures may be used in both polyethylene and lead sheathed cables. The closures are installed using a propane torch fitted with a C type nozzle or the equipment and accessories promoted by DexGreen and manufactured by Sievert.

Kit of Parts

- 1 x Heat Shrinkable wrap around reinforced sleeve
- 2 x Channel to suit sleeve
- 1 x Underclip
- 2 x Half Shell Metal Canister
- 2 x Self adhering aluminium closing strips for canister
- 2 x Cleaning Tissue
- 1 x Abrasive Strip(P40 Grit) 25mm wide x 300mm micron +/- 10% x 2. Dimensions 300mm x 100mm
- 1 x Shield continuity wire fitted with clip assembly
- 1 pair x PE gloves
- 1 x Encapsulant containment sheet; PE 0.005; Dimensions 230mm x 305mm
- 1 x Encapsulant mastic strip 30mm wide x 500mm long
- 1 x Instructions per document requirements



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Recommended Safety Rules

- Check jointing chamber for gas before carrying out new or maintenance work
- Use safety glasses, goggles and protective gloves when working with an open flame
- Follow the prescribed installation instructions
- The D-type nozzle produces a blue flame and should be used for brush flaming the cable sheath
- The C-type nozzle produces a blue / yellow bushy flame which is ideal for the heat shrinking process
- Angle the flame of the torch in the shrinking direction
- Move the flame continuously all around the sleeve being careful to avoid hot spots, sleeve wrinkles, air pockets while performing the heat shrinking procedure

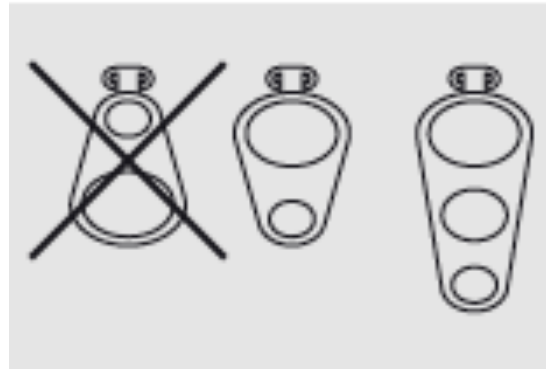
Recommended Torches

- Use Telstra approved soft flame burner. Serial Code: 414/00130 or 414/00107

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1. Remove cable shield jackets and complete the joint. Finished joint opening length should be length "L" as in table (see last page "Normal Sheath Opening L")



2. For branched configurations the sleeve must be positioned such that the adhesive flap and sleeve rails are over the largest cable (see illustration above)



3. If a grounded wire is required, use suitable tool to cut a tab in the cable jacket over a length of 25mm. And a width of 15mm. Install grounding wire clip. Use a pair of pliers. Dress clip with PVC tape.



4. Center and Install metal canister over the joint bundle. Seal canister seam with adhesive aluminium tape.



5. Tape the canister ends, start from the metal canister, down to the cable ensuring a 50% overlap. Do not tape more 5mm onto the cable.

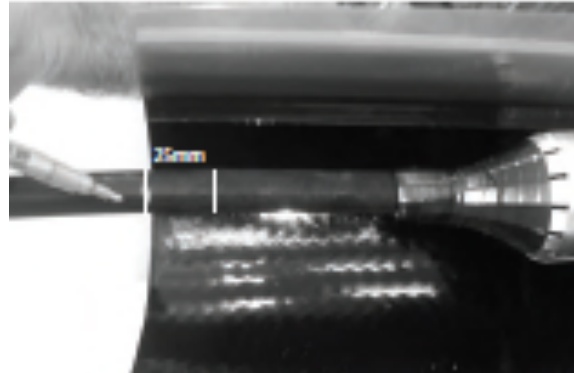


6. Remove cleaning tissue from its package and clean the cable for a distance of minimum 20cm at each end of the metal canister.

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7. Abrade the cables circumferentially over a minimum of 20cm and clean once more.



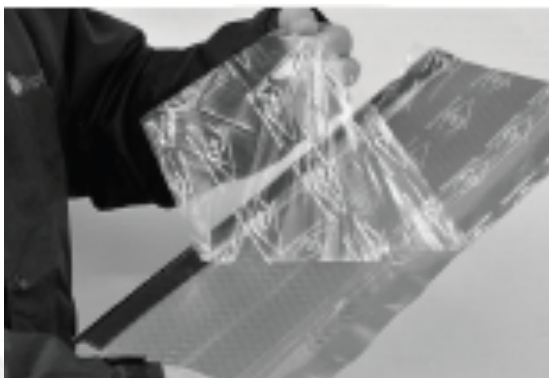
8. Center the sleeves over the metal canister and mark the sleeve ends on the cables. Then add a second mark a thumb width (25mm) nearer the liner.



9. Wrap aluminium foil onto cable as shown. Start at the inner mark and apply away from the canister. Ensure the aluminium foil has no sharp edges. It can be smoothed out with a cable dressing tool.



10. Preheat cable sheath sealing circumference using a blue flame. Brush flame for approx. 10 seconds. This removes any oxidants on the cable sheath.

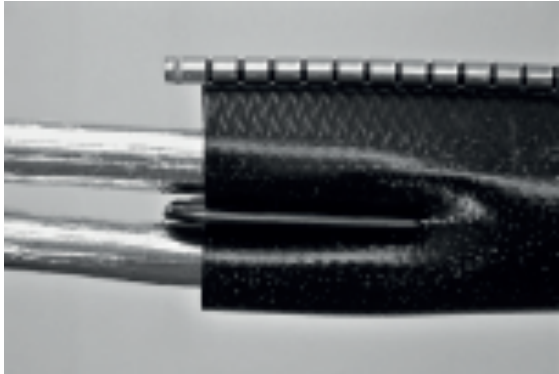


11. Remove protective film from the wraparound sleeve.



12. Push the flexible stainless rails over the channels. Slide the retaining clip into position. The clip should be centrally positioned to retain each rail equally.

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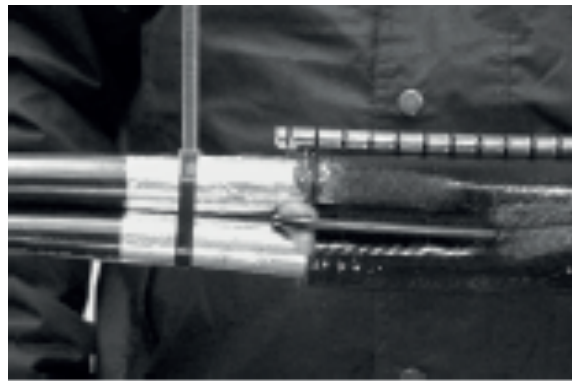
13. Position the sleeve centrally across the joint. Install all branch off clips as required. Ensure clips are totally inserted. The sleeve must be uniformly located around the cable diameter as shown above.



14. Begin the shrinking process from the bottom, centre section. Continue to shrink that area until the indicating paint has changed color. When the paint has completely changed to black gradually move the flame towards the channel area. Move to one end of the sleeve and shrink as before. Shrink toward the branch end first.



15. Carefully push and profile channel with a cable dressing tool to follow the form of the transition area.



16. Press branch-off cables firmly together and secure with cable tie.



17. Adhesive must flow from the ends of a sleeve when properly shrunk. If the adhesive does not flow out of the sleeve, re-heat again until the adhesive appears.



18. When all temperature paint has been converted to black over the closure, two separate lines should be visible in the slots of the channel. If at any point the two white lines are not visible, then re-heat the closure at that point until the lines appear. After installation, allow the heat shrink sleeve to be completely cool normally 45 minutes is required.

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Re-entry Procedure



1. Re-heat the wraparound sleeve starting from one end and working along the rail area to the other end of the sleeve.



2. Using a suitable tool pull the stainless steel rail away from the wraparound guides as shown. Remove the entire rail from the sleeve.



3. Ensure to use safety glasses and protective gloves. Re-heat the closure. Using a suitable tool and working from one end gradually remove the wraparound sleeve.
Re-visit the installation instruction sheet see steps 2 through step 18.

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Note for branched joints

Note: Branched joints with more than 1 cable at an end require the use of one additional branching kit (BOCL-S or BOCL-M) per added cable.

A maximum of 4 cables can be installed at each end.

Selection Chart / Ordering information

Telstra Serial Item	DexGreen Part Number	Max Joint Bundle	Min Cable Diameter (O.D.)	Normal Sheath Opening (L)	Recommended Sum of branch cable diameters			Branch Kit
					2 out max	3 out max	4 out max	
513/00187	KOS550-43/8-100	43mm	8mm	100mm	33	-	-	S/I 513/22
513/00188	KOS550-43/8-200	43mm	8mm	200mm	33	-	-	S/I 513/22
513/00189	KOS550-75/15-250	75mm	15mm	250mm	52	40	-	S/I 513/22
513/00190	KOS550-122/30-500	122mm	30mm	500mm	112	100	88	S/I 513/97

BOCL Contents (Note: Supplied separately to the kits above)

- 1 x Branch Clip
- 1 x Aluminum Foil adhesive backed 100mm x 100mm
- 1 x Cleaning Tissue
- 1 x Abrasive strip 25mm x 300mm (P40/P50 grit)
- 1 x Continuity Wire fitted with clip assembly 120mm long
- 1 x Connector (continuity wire)
- 1 x Cable tie

Encapsulating Closure System

Use approved encasulant covering all wires as per guide. Follow standard Telstra work practice.

Cable Size Range	Nominal Encapsulant Quantity
10 pr 0.40mm to 30/0.40	50 – 100 grams
6 pr 0.64mm to 20/0.64	50 – 100 grams
6 pr 0.90mm to 10/0.90	50 – 100 grams
Up to 50 pr 0.40mm	75 – 150 grams
Up to 30 pr 0.64mm	75 – 150 grams
Up to 20 pr 0.90mm	75 – 150 grams
50 pr 0.40mm to 200/0.40	150 – 400 grams
30 pr 0.64mm to 100/0.64	150 – 400 grams
20 pr 0.90mm to 100/0.90	150 – 400 grams
300 pr 0.40mm to 1200/0.40	600 – 1500 grams
200 pr 0.64mm to 400/0.64	600 – 1500 grams

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