

Installation Instructions for Large Maintenance Closure Item Code: 51300169



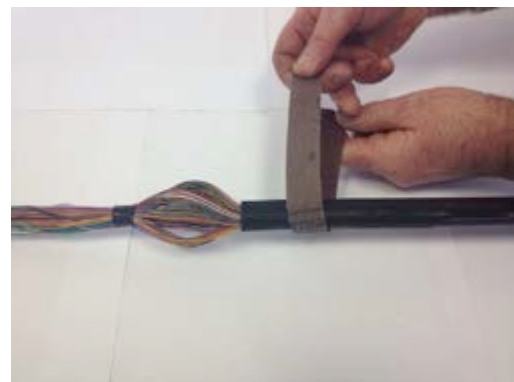
Kit Contents

Large Closure for new work

- 1 x dome with retaining pin
- 1 x Base
- 1 x Clamp
- 1 x Grommet
- 1 x Cable Retainer
- 1 x O Ring
- 1 x 100g Silica Gel
- 1 x Putty Block
- 1 x Instruction Sheet
- 3 x Large Cable Ties
- 6 x Small Cable Ties



- 1.** Clean cables with PF Wet & Dry wipes to remove all residues and grease.



- 2.** Abrade cable 150mm below stripping point with abrading tape. Clean again with PF wipes.

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- 3.** Determine the cable layout and cut D shaped grommet to suit. A max of 5 large and 4 small cables as shown. Refer to cable layout guide.



- 4.** Choose size of cable entry knockout. Use screwdriver to knock out cable. Turn screw driver to remove sharp edges within the hole.



- 5.** Install cables into D grommet ensuring the natural lie of the cables is maintained.



- 6.** For air core cables, cut and remove all tie wraps & splay conductors allows sealant to flow from a water block.



- 7.** Air core cables – 40mm of sheath above base (30mm of sealant onto conductors). Grease cable – 130mm of sheath above base.



- 8.** Clean and dry internal surfaces of the chambers to be used.

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- 9.** Cut the sealed end of the plastic bag supplied with the sealant 10B kit as shown.



- 10.** Install bag into the base of the closure and fold both ends as shown. This creates a "tunnel" for the conductor bundle and protects the closure from grease contamination.



- 11.** Clean cable again with wet/dry wipe. Insert cable into the base through the plastic bag as shown to avoid grease contamination on the side walls of the closure. Important to position the cables in the grommet prior to insertion into the base.



- 12.** Unfold bag. Remove O ring. Attach upper cable jig to centralise and hold the cables in place. Pull out the bag from the top of the closure to avoid contaminating closure walls.



- 13.** Insert grommet into base. Ensure groove snaps securely into the base of the closure.



- 14.** Clean cables and closure base again using wet/dry wipes provided.

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- 15.** Attach the cable retainer on the spigot on the closure base as shown.



- 16.** Attach cables to retainer using cable ties to hold cable in place during sealant setting.



- 17.** Seal cables to base using putty to create a dam to prevent sealant from escaping.



- 18.** Attach closure to pit guard using cable ties as shown.



- 19.** Attach the cables to cable jig using cable ties as shown. Ensure cables are separated.



- 20.** Dispense sealant. Fill to the top of the inner cup. Spacing of cables is vital to ensure effective seal. Note: for sealant dispensing please refer to instructions provided with Dexbond sealant 10B.

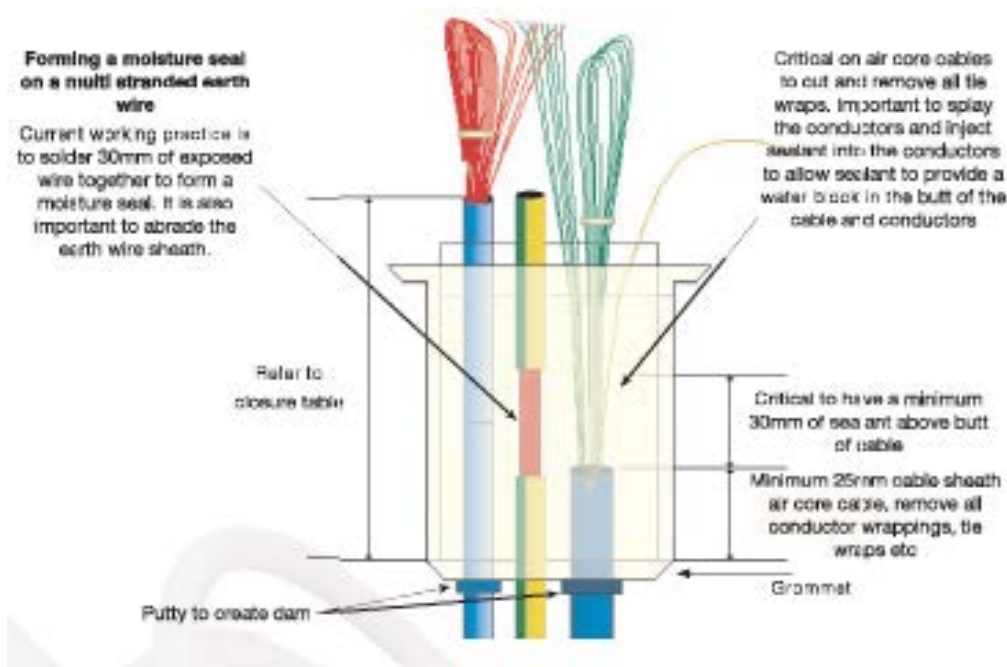
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- 21.** Immediately after sealant application, gently rotate conductors on air core cables to allow sealant to flow around conductor bundle. Wait at least 30 minutes before closure is moved.

Forming a moisture seal on a multi stranded earth wire

Current working practice is to solder 30mm of exposed wire together to form a moisture seal. It is also important to abrade the earth wire sheath.



- 22.** Pressure test using large dome tester and hand held pump 30 minute after sealant application. Recommended to pressure test all new closure installation using leak detecting fluid at the base of the closure.



- 23.** Remove 100g silica gel from plastic bag. Sign and date silica gel label. Insert silica gel into the closure. Replace silica gel every time closure is opened. Gel changes from yellow to green to indicate that the silica gel needs to be replaced.

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Cable Layout Guide Large Maintenance Closure

Main port.
Maximum
Looped 100 / 0.40
+ 2 groups of 4 x 2
/ 0.40

Or

Looped 50 / 0.64 +
5 x 2 / 0.40

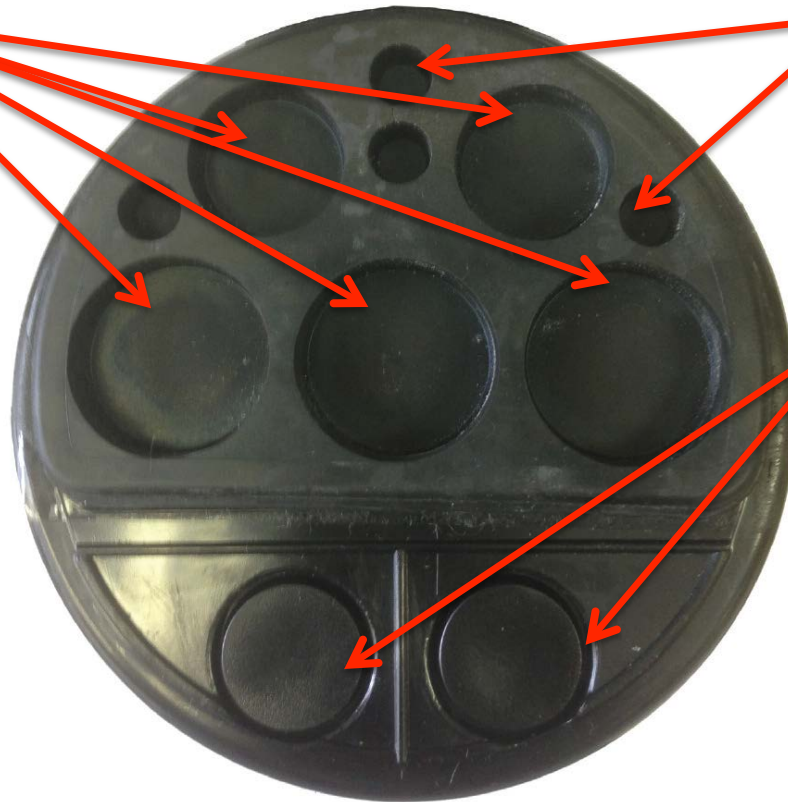
Minimum
Looped 10 / 0.40 +
70 / 0.40 single

Or

6 / 0.64 looped +
30 / 0.64 single

Or

6 / 0.90 looped +
20 / 0.90 single.



Minimum
2 / 0.40

Maximum
1 / 0.64 or 5 / 0.40

2 knockout ports.
Maximum
1 x 50 / 0.40

Or

1 x 50 / 0.64

Or

1 x 50 / 0.90

Minimum
2 x 2 / 0.40

Or 2 x 2 / 0.64

Or 1 x 6 / 0.90

Notes:- Critical steps installing closure

1. It is important that the Cable is restrained, so they do not move cables while sealant is setting.
2. Base of the closure is secure while pouring sealant and the number of cables within the closure are limited to what we recommend
3. Cables are abraded & cleaned and separated, using the Cable Jig etc and cable ties. Securing the cable to the guards also helps separate and retain the cables.
4. For air core cables ensure the water block instructions and our recommendations are followed, i.e. clean, position nozzle of the sealant in the conductor bundle, use 30ml of sealant above the butt of the cable, that the conductors are gently moved immediately on application of the sealant so the sealant can permeate around the conductors to give an effective water block

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