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JOINTING INSTRUCTION FOR 9 WAY 33kV XLPE JOINT

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1. Scope

This instruction covers the activities associated with the securing the joint in position and fitting the GRP box.

Instructions for fitting the elbows to the cables and connectors are included in the elbow packs.

Instruction for mixing the resin filler is included with the resin packs.

2. Securing the joint in correct position

Remove the lid to the GRP box and remove the elbow packs if stored inside.

The joint then has to be positioned with the correct cable ports in the side of the GRP box aligned with the correct cables. Ensure there is enough cable length to complete the termination correctly. With the joint now correctly positioned it needs to be bolted to the floor for rigidity.

3. Aligning each core

The sides of the GRP box should be removed (note the alignment to the base for refitting). This comes off in one piece but the 3 cable port sections have to be removed and fitted to their respective cables. It is important to note which port came from what part of the box for ease of refitting. Take care not to damage the seals.

4. Fitting the elbows

Ensure the phasing of each cable is correct before passing the GRP cable port sections over the correct bank of 3 cables. Park these cable port sections on a cleaned section of the cables and out of the way to enable fitting of the elbows. Heat shrink tubes may also be passed over each cable to enable easier sealing of the box when filled with resin.

Using the instructions supplied with the elbows complete the terminations. The elbows can then be fitted to the correct epoxy mouldings. Ensure that the cable earthing is correctly connected to each other and also to the earthing position on the base of the epoxy moulding stand.

5. Fitting the GRP box

The sides of the GRP box are now repositioned over the base and cables in its correct rotation. Secure the base with the nuts and bolts fully tightened. Slide the cable port sections along the cable and into position. Ensure seals are not damaged and secure in position with the nuts and bolts provided. Pack each cable to be a tight fit with the ports – this will require some form of sealant so as to stop any leaks when the resin is poured.

6. Filling the GRP box

The box is now filled with the correct resin (mixed as instructed). If using Guroflex 32 ten litre tins will be required. Ensure all parts are covered by at least 30mm of resin but do not over fill and disturb the seal at the top of the box. When the box is full fit the lid in the correct alignment and secure with the supplied nuts and bolts. Be careful not to knock the box or move the cables until the resin has fully cured.

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