Nexans 158LR 11kV Type A Termination Superseded by Nexans 200LR

Nexans are in the process of discontinuing their 11kV 250A 158LR Type A termination that SPEN currently utilises for 95mm^2 transformer terminations (30980301). ED&S and the Technical Learning team have assessed Nexans new 11kV termination, 200LR (See Figure 1). Nexans has standardised their design across Europe to increase security of supply and reduce material wastage.

The Nexans 200LR is fully Approved for use on the SPEN network and will be supplied to staff once the remaining 158LR stock has been used.



Figure 1: *Nexans 200LR 250A Type A Termination*

All SPEN staff should:

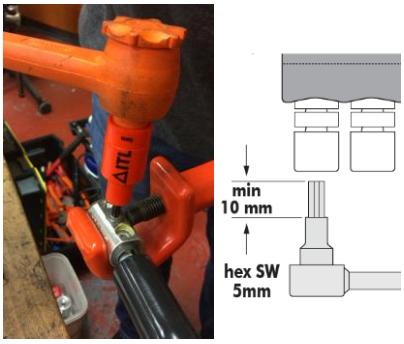
- be aware that the SPEN SAP material code will remain the same (30980301).
- book the new 5mm hex Allen key with 10mm minimum length socket, 30058525 that is required for the Nexans 200LR termination (See Figure 2). Other Allen key sockets **shall not** be used.
- be aware of the changes to the cable preparation dimensions and steps. Please refer to the manufacturer's installation instructions supplied within kits. ED&S has confirmed with the Technical Learning team that formal re-training is not required for the 200LR termination.
- not mix the Nexans 158LR and 200LR terminations or components on site. Components within the Nexans kits are **not interchangeable**.
- familiarise themselves with the key installation points outlined below.



Figure 2: *New ITL 02797 (30058525) 5mm Hex Allen Key Socket (with 10mm minimum length)*

Key Installation Points:

Mechanical Connector



Connector lugs are to be held with the Approved holding tool (30982297), sheared off with a 5mm hex Allen key with 10mm minimum length (30058525) and ½" square drive ratchet spanner (30982462). A power tool **shall not** be used.

Two Shear-offs Required Per Shear-bolt



Please note, after the first shear, the second shear-point drops within the connector but will still shear using approved tools. For 95mm^2 solid aluminium 11kV 1-core cables two shear operations shall be completed per shear-bolt as per the manufacturer's instructions.

New Clipped Bail Restraint



The new bail restraint fitting process is detailed in the manufacturer's instructions.

Recommendations and action points

- All staff who carry out 11kV transformer installations shall be updated in regards to the technical details of this communication. They shall also be reminded that manufacturing and jointing instructions shall be adhered to at all times.
- All staff who carry out 11kV transformer installations shall order the required tools for the 200LR connector.
- Staff shall not mix the Nexans 158LR and 200LR terminations or components on site. Components within the Nexans kits are **not interchangeable**.