

TECHNICAL BULLETIN

TB - 0179

Tyco Electronics (TE) HV Joint and Termination kits update.

Background:

As the needs of the Endeavour Energy Network have evolved over a number of years, an ongoing review of approved cable jointing and termination kits and the related installation practices is continually required.

We are working with suppliers to improve kits to increase network suitability and reliability. In some cases, this involved modifying a kit and/or instructions to help guarantee more robust, range taking and user friendly installations.

Streamlining cable joints and terminations by the creation of new kits or combining and modifying existing kits to widen the usage range is ongoing. The desired outcome is that Cable Jointers will now require fewer kits to cover more applications; therefore they become familiar and proficient with a particular type of joint or termination.

The review process results in the deletion of redundant kits which have been superseded and are now no longer required and the alignment of joints and terminations with the majority of cables, switch gear and safe work procedures used throughout the Network.

Recently a 240mm², Aluminium single core XLPE insulated cable with a suitably fault rated Cu wire screen was evaluated. When the cable is approved and becomes available a Technical Bulletin will be issued detailing where and under what circumstances the cable can be used.

Actions:

Kit update

The IXSU-FP103 11kV multi-core (3 x single cores) indoor termination kit (stock code: **1549666**). During the middle of 2014 there was a problem in the supply chain of the BLMT-120/300 mechanical lugs included in these kits; staff were advised to purchase alternate approved mechanical lugs separately to complete the heat shrink terminations as an interim solution. The issue has now been resolved and the lugs are now included in the kits again.

Approved kits

1. **The MXSU-P101, 11kV/22kV XLPE straight through joint kit** (stock code: **1546019**) has replaced the 22kV MXSU-P45 (stock code SJ10296) and the 11kV MXSU-P100, multi-core to multi-core joint kits. The P-101 kit has a cable range of 185/300mm² and is suitable for jointing 11kV and 22kV multi-core cables to either another multi-core cable or (3) single core cables. The joint will also accommodate 400mm² cables if required, though the included BSM-120/300 links will need to be substituted with BSM-185/400 links. Refer to the kit instructions for stripping dimensions.

Stock of the new P-101 kit is now available. It is advisable that all Cable Jointers familiarise themselves with the kit components and instructions prior to starting the joint construction. Any subsequent enquiries can be addressed by the Supplier or Endeavour Energy Training personnel.

Any existing stock of the P-100 11kV and the P-45 22kV kits is to be exhausted.

2. **The RSTI-5855 22kV 800A screened elbow termination kit.** This kit includes BLMC-185/300mm² mechanical lugs and is suitable for 11kV/22kV cable terminations to 630A "C" Type bushings, including 1st. FDRs.

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