



Technical Bulletin

TB 0186 – LOVINK HV joint update

Purpose

Lovink Enertech has amended their 22kV XLPE joint to a Universal kit system.

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.

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The review process results in the deletion of redundant kits which have been superseded and are now no longer required; and the alignment of joints and terminations with the majority of cables, switch gear and safe work procedures used throughout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

Key differences (in the universal kit system)

- One set of stripping dimensions are used for both 11kV and 22kV applications so there is no confusion or risk of error.

- Single cores or smaller paper insulated cross sectional areas are easily accommodated within a single joint.
- Simply select the relevant instructions for your application and proceed with the joint.
- Included mechanical connectors to suit Al or Cu cables with a cross sectional area of 120mm² to 300 mm².
- Transition joints between XLPE insulated cables and paper insulated cables can be completed using the base universal kit, resin module and with the purchase of an additional PILC module containing an LDV clamp (for a mechanical earthing connection) and specific foam rings.
- A PILC to PILC joint can be easily completed using the base universal kit, resin module and 2 PILC modules.

Note: For paper insulated cables with a cross sectional area of less than 120mm², suitable connectors or ferrules are easily accommodated though will need to be acquired separately.

Actions

- The 11kV XLPE joint kit (part no. KXX 105 11kV) is no longer available.
- For Al or Cu cable with a conductor cross sectional area of 120mm² to 300 mm² cross sectional area, the 22kV XLPE joint kit (part no. KXX 105 22kV) can be used for the applications listed in Table 1.
- Stock of the existing XLPE and Transition joints will be exhausted over the following months and any remaining stock converted to the new universal joint by 1st February 2016.

Table 1: New ordering requirements for Lovink Enertech joints.

Cable range	Application	Kits required		
120mm ² to 300mm ²	11kV or 22kV xlpe straight through joint multi-core to multi-core	Universal kit Part no: KXX 105 22kV Stock code: 1559863	Resin module Part no: K95- (1xB + 1xC) Stock code: 1559863	No additional requirements
	11kV or 22kV xlpe straight through joint multi-core to 3 x single cores			
	11kV transition joint between a paper insulated multi-core cable and either a multi-core xlpe cable or 3 x single xlpe cores			
	11kV multi-core to multi-core or multi-core to 3 x single cores paper insulated cables			PILC module Part no: KGX 105 11kV Stock code: 1559848

Supplier: Advanced Power Networks Pty Ltd (contact details: Jason Abela, j.abela@lovink.com, 0435 453 962).