

**PB5 QUALIFICATIONS & WORKMANSHIP**

Qualified Artisan (Electrician)/Cable Joints with suitable practical examination declared competent in jointing and terminating of PILC and XLPE cables in accordance with ESETA (Act 97 of 1998) and SANS 10198.

The quality of work must be of the highest standard and shall be guaranteed for a minimum period of 12 months.

**PB6 CONTRACT PERIOD**

The contract period shall be from date of final award until 30 June 2025.

**PB7 JOINTING OF VARIOUS SIZE CABLES****PB7.1 GENERAL**

Jointing shall be carried out strictly in accordance with the manufacturer's jointing instructions and by artisans thoroughly experienced and competent in jointing the classes of cables used. The joints shall not impair the anti-electrolysis characteristics of the cables. Conductors to be joined using mechanical torque shear connectors. No joint shall be situated inside a cable pipe. This Standard PB: Jointing, Terminating and Fault Finding is applicable to single-core and three-phase cables armoured or unarmoured, with or without metallic sheath, copper, or aluminium cables, underground or surface mounted cables. Joints will be without sharp edges or protrusions. All completed joint will be pressure tested.

**PB7.2 JOINTING: MV CABLES**

Paper insulated cables can be jointed with a standard underground cast iron through joint. The filling compound shall be non-hygroscopic with high dielectric strength and insulation resistance qualities. Heat Shrink through Joint: XLPE or PILC cables can be jointed with heat shrink joints. The electrical continuity of the conductor's shields, and armouring shall in no way be affected by the joint. Bonding of the earth continuity conductor shall be internal to the joint. No external joining of the earth continuity conductor, which may be subject to corrosion, shall be permitted. The complete joint shall be covered with a waterproof jacket as protection against corrosion.

**PB7.3 JOINTING: LV CABLES**

LV cables joints shall be Resin Type joints.

**PB7.4 FAULTS - CALLOUT AND COMPLETE REPAIR**

When the need arises for an Electrical Contractor to joint various size of cables within the Breede Valley Municipality the Electrical Department will prepare the area where the jointing need to be done. The cable will be opened-up and a jointing bay provided. The Contractor shall allow for his own preliminaries and/or overhead costs as required for the execution of the contract.

Tender rates to include:

- 1) All labour/team cost.
- 2) Travel distance cost.
- 3) Repair cost
- 4) Fault response time is 3 hours from time of Call.