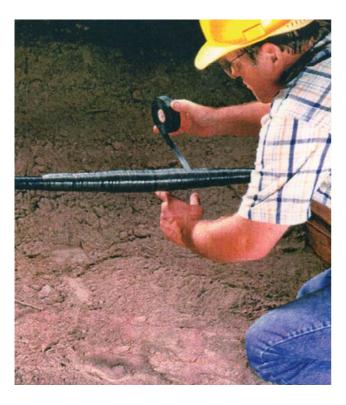
Scotch Tape Joints for Aerial Bundle Cables

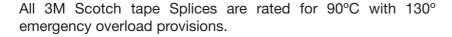


Design Features:

- Consists of a combination of various 3M tapes to provide the electrical insulation build back the semi conductive layer, stress control and shielding properties of the joint.
- 3M self-bonding tapes provides a void free insulation build-back for voltage withstand and moisture protection.
- Uses Constant force springs for continuity of the armour and shielding of the cable.
- 3M Rubber and Mastic tapes are used to provide the additional overlap on the cable jacket.
- Laboratory tested and field-proven design. Meets the requirements of IEEE 404, VDE 0278, IEC 60502 and CENELEC HD 629 Standards.
- Detailed drawings and instructions are supplied with each kit.

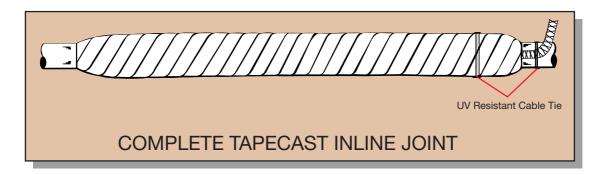
With 3M Scotch Tape Joints, you can insulate and moisture-proof any odd shaped and sized cable ... from 1KV up to 35KV. It is used for joining XLPE insulated single and three core cables with Aluminium or Copper conductors.

The Scotch Tape Joints for aerial cable application utilizes 3M Electrical Vinyl Professional Use and Premium grade tapes that are UV and weather resistant as well as UL Approved. It also provides the flexibility to incorporate the tape splice design with resin rejacketing for a 3M "Tapecast" resin pressure method or Mold and compound type splice for buried underground application which needs additional mechanical strength.











3M Armorcast Structural Material

To give additional mechanical and UV protection on the Aerial Cables, 3M provides the option to combine the completed tape joint with with 3M Armorcast Rejacketing Kit No. AR-2.



Installation of AR-2 is quick and easy. No need for flame, electricity or chemicals. Perfect for all hazardous environments, including manholes.

3M Armorcast Structural Tape is a flexible fiberglass knot fabric strip saturated with resin syrup. No heat is required in the installation process, just water. It forms a tough durable covering that cures in 20 minutes. Provides structural strength, as well as cable and splice protection. For use on any cable jackets and sheath repair. The tacky, stretchy fiberglass reinforced material adheres both to itself and to polyethylene or lead sheaths.

- Simple application. Quick and easy to apply without mess
- Water activated resin. Gives control of set time
- **Durable**. Strong, long-life, water-resistant and hard wearing
- Light weight. The fiberglass construction of the tape allows for excellent mechanical protection without extra weight stress on the cables
- Tack free. Gives ease of roll unwind during application
- Resistant to moisture, fungus, acid, alkali, ozone, sunlight, gasoline and high temperatures
- Conforms to irregular shapes and maintains the rigidity and shape



Step 1



Step 2



Step 3

Application Instructions:

- Wear a glove to protect your hands from the resin.
- Remove the roll from the foil pouch and dip in cool water, squeezing once. This will allow four to five minutes curing time. Option: You can also apply directly without first dipping in water. The curing time is longer if it is not dipped in water.
- Apply in a spiral motion. Overlapping by half to two thirds on each turn.
- Mold to aid lamination and cast strength. Use some water to help smoothen the surface.
- Let it cure and dry. Cables can be moved in 30 minutes time.

3M

Electrical Markets Division 3M Malaysia Sdn. Bhd. (7251 v)

Bangunan 3M No.6, Persiaran Tropicana, 47410 Petaling Jaya, Selangor, Malaysia. Tel: 03-7806 2888 Fax: 03-7806 2902/3379 website: www.3M.com