

Insultube – Double Layer is manufactured by Heat Shrinkable Insulating material and Heat Shrinkable Semi-Conductive material with special technology for good insulation in its inner layer and good semi-conduction in its outer layer; providing reliable shield protection.

This tubes are made from High Quality Cross-linked Polyolefin material with Co-extrusion Technology.

This tube is used in Power Cable Straight Through Joints for insulating and outer-shielding layer up to 36kV. It can also be used to other places wherever insulation and shielding is required.

Features & benefits:

- Dual wall Conducting / Insulating.
- Excellent Electrical properties.
- Operation Temperature : -40°C to 100°C.
- Minimum Shrink Temperature : 100°C
- Minimum fully Shrink Temperature : 130°C
- Standard Color : Black/Red



Technical Specification

| PROPERTIES | INNER INSULATION LAYER VALUE | OUTER SEMI-COND. LAYER VALUE | STANDARD |
|---|-------------------------------------|-------------------------------------|------------|
| Physical | | | |
| Tensile Strength | 12 Mpa (N/mm ²) (min.) | 12 Mpa (N/mm ²) (min.) | ASTM D638 |
| Ultimate Elongation | 300 % (min) | 300 % (min) | ASTM D638 |
| Longitudinal Change | -10% (max.) | -10% (max.) | ASTM D2671 |
| Hardness | 50 ±3 Shore D | 50 ±3 Shore D | ASTM D2240 |
| Water absorption | 0.5 % (max.) | 0.5 % (max.) | ASTM D570 |
| Thermal | | | |
| Accelerated ageing | (120°C for 500 hrs) | (120°C for 500 hrs) | ASTM D2671 |
| Tensile Strength | 10.5Mpa (N/mm ²) (min.) | 10.5Mpa (N/mm ²) (min.) | ASTM D638 |
| Ultimate Elongation | 270 % (min.) | 270 % (min.) | ASTM D638 |
| Low Temperature Flexibility (-40°C for 4 hrs.) | No Cracking | No Cracking | ASTM D2671 |
| Heat Shock (250°C for 30 min.) | No cracking or flowing | No cracking or flowing | ESI 09-11 |
| Shrink Temperature | 135°C | 135°C | IEC 216 |
| Continuous Temperature Limit | -40 to +100°C | -40 to +100°C | IEC 216 |
| Electrical | | | |
| Dielectric Strength | 20 KV/mm.(min) | N/A | ASTM D149 |
| Volume Resistivity | 1 x 10 ¹⁴ Ohm.cm (min) | 1 x 10 ³ Ohm.cm (min) | ASTM D257 |

Selection Chart

| Gala Code | D min. (mm) | d max. (mm) | T (mm) |
|-------------|----------------|----------------|-----------|
| GDLT 30/11 | 30 | 11 | 5.0 ± 0.3 |
| GDLT 35/13 | 35 | 13 | 5.0 ± 0.3 |
| GDLT 45/16 | 45 | 16 | 5.0 ± 0.3 |
| GDLT 55/20 | 55 | 20 | 5.0 ± 0.3 |
| GDLT 65/27 | 65 | 27 | 5.0 ± 0.3 |
| GDLT 85/30 | 85 | 30 | 7.5 ± 0.3 |
| GDLT 100/35 | 100 | 35 | 7.0 ± 0.3 |
| GDLT 120/45 | 120 | 45 | 7.0 ± 0.4 |

