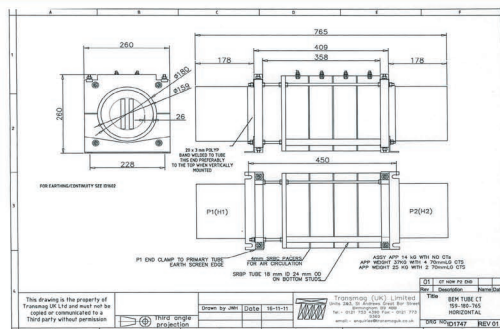




Transmag (UK) Ltd

Polypropylene Tube Assembly



General

Manufactured to resolve an issue between the Aluminium bushing and production time scale the all new PP tube assembly is constructed to give the same insulation integrity as the Aluminium paper wound bushing type for voltages up to and including 19KV. By increasing the tube diameter and wall thickness a greater level of creepage is gained against the busbar assembly and the current transformers. The construction allows a bigger range of current transformers to be fitted both in number and current ratio.

The PP assembly can be mounted horizontally or vertically depending on the application required within the control switch-gear. With Stainless Steel mounting angles and Polyester glass mat assembly clamps the total build give a robust construction using the most durable materials allowing a much reduced cost against the Aluminium tube assembly.

Main Elements of Construction

Construction allows for flexibility of ring tape wound current transformers from one to four current transformers can be fitted into this tube arrangement.

Holding the three sizes of tube at our works allows for flexibility, so Transmag can meet the customer requirements by using the different bore size to meet and accommodate busbar arrangements.

The total insulating rating of the tube assembly allows for high internal temperature due to the materials used in its construction. PGM blocks grade 2 Polyester covered winding wires are among the many type of material used to allow use in areas well above the ambient as laid down in international standards, in some cases ambient of above 80°C are requested. Mounting can be either vertical or horizontal.

The assembly operates at insulation levels of 15.5/34/95KV, others are available upon application. This allows for current transformer ratios from 2000 to 8000/1, 2000/5 and other ratios if requested. We fully test each assembly to ensure compliance of the current transformers and insulation levels to the required standard.

All assemblies are issued with test certificates and when required magnetisation curves. All types of standards can be accommodated on this type of assembly from BS/IEC/IEEE/AS/CAS

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Product Data Sheet

Standards:	ANSI C57-13/BS EN 60044-1/CAN -3-13
Insulation Level:	15.5/38/95KV
Frequency	50/60HZ
Terminals	M6 Brass set pins Electro- Tinned for Area Conditions
Tube assembly:	Polypropylene 180 Resistant to corrosive fluids at temperatures from 0°C to 80°C Resistance to Chemicals: High Temperature: -20/140 Deg C Pressure: 6 Bar Electrical Impulse: 67KV RMS (95KV Peak) for one Min Electrical Flash: 38KV 1 Min Discharge: @19KV Zero as measured
Blocks and Clamps:	PGM Flame Resistance meeting: UL 94V-0 UL Classification number: E81928 IEC Track Resistance (CTI): 500+
Metal work:	Stainless Steel This steel exhibit excellent resistance to a wide range of atmospheric, chemicals, in the textile, petroleum and food industry exposures.
Winding Wire	Grade 2 Covering Polyester Grade 2 Temperature: Deg C 200+ Electrical: 5000V UL File number: E103815
Screen/Earth	Tinned Copper wire 1.0MM Diameter and Tinned Copper Strip
Earthing Wire	Tinned copper strip 20MM x 0.25MM
CT tape finish	Tape Woven Glass/Polyester tape red Line Temperature: 180 Deg C Classes H Weft 1 X 150 Glass
Nebar	TD1120 Temperature Range: -40 to 125Deg C Conforms to all regulations for hazardous substances
Enveloping Varnished finish	009-0008 Solvent alkyd resin based air-drying varnish, Temperature: 180°C Excellent electrical properties anti-tracking qualities Excellent protection against leakage currents Compatible with most insulation systems, has good chemical and water resistance. Resistance to tracking Drops @ 200 volts (to IEC 60424-2 (1974)) 145 Thermal rating of 180°C and is UL listed under the Underwriters Laboratories OBOR2 File E151126(M).

