

4.4 CABLE TRAYS & SUPPORTS

Steel cable trays, accessories and supports shall normally be hot dip galvanized or PVC coated and shall be either of the perforated type or ladder.

The cable trays shall have adequate strength and rigidity to support the cables installed. The trays shall be provided with upstands on both sides.

All fittings, bends, tees, elbows, couplers, etc. shall be of substantial sections and of the same quality as the trays. Cables shall be fastened securely by purpose made clips, cleats or saddles

Earth bonding shall be provided between sections / gaps in all cable tray/trunking runs and bolted connections.

Refer section 6 of this regulation for installation details.

4.5 LOW VOLTAGE SWITCHGEAR AND CONTROL GEAR ASSEMBLIES

4.5.1 Main & Sub-Main Distribution Boards

The Main & Sub-Main Distribution Board/s (MDB/s & SMDB/s) which are installed within the consumer installations shall be factory built assembly complying with relevant BS EN 61439/IEC 61439.

The assemblies shall be constructed only of materials capable of withstanding the mechanical, electrical and thermal stress as well as the effects of humidity which are likely to be encountered in normal service.

Apparatus forming part of the assembly shall have clearances, creepage distances and isolating distances complying with BS EN 61439/IEC 61439, maintained during the normal and relevant service conditions.

The phase bus bar, neutral bar and earth bar shall be of copper, colour identified as given in Appendix.6. The neutral bar shall be of the same cross section as the phase bus bar.

The Circuit Breakers, Bus Bars, etc. provided in the MDBs and SMDBs shall be designed and rated to suit individual applications at the site conditions. The details and parameters of the individual equipment & components in MDBs/SMDBs, in general, may be appropriately selected and specified as per the typical guidelines given in Appendix 7.

In general, a voltmeter (with R-Y-B 'OFF' selector switch) Ammeter (with CTs as applicable) Max. Demand indicator/recorder, P.F. meter, indicating lamps and associated protective