such as lighting, socket outlets, water heaters, single phase air-conditioning units, equipment, apparatus, etc. shall be distributed and connected on Red, Yellow and Blue phases as evenly as possible, to ensure load balance between the phases at all distribution levels.

4.3 WIRING ACCESSORIES AND FITTINGS

4.3.1 Conduits and Fittings

PVC conduits and fittings used in building installation shall be from high impact rigid PVC complying with BS 4607, BS EN 60423 & BS EN 61386 , suitable for use at ambient temperature up to 48^{o} C. The material shall not soften or suffer structural degradation at a temperature of 70^{o} C and shall be non-hygroscopic, fire retardant.

Steel conduits and fittings shall comply with relevant specifications in BS EN 60423, BS EN 61386 and shall be hot dip galvanized to class 4 protection, both inside and outside. Flexible steel conduits and fittings shall comply with BS EN 61386. Conduit systems must be designed and installed so as to exclude moisture, dust and dirt. Small drainage holes must be provided at the lowest part of the system to avoid the accumulation of condensed moisture.

PVC conduits shall be provided with copper/brass terminals.

4.3.2 Trunking

Where applicable, surface and underfloor (duct) trunking and their fittings shall comply with BS EN 50085. Trunking and fittings shall be constructed of steel, hot dip galvanized, both inside and outside or non-combustible insulating material with removable covers. Installation of the trunking shall be carried out strictly as per the manufacturers' guidelines.

The protective conductor must run inside the trunking and not in parallel.

Internal fire barriers shall be provided where very long run trunking /cable tray crosses the floors /walls.

Small insulated cables shall not be installed in perforated trunking/cable trays.

Additional supports shall be provided where cable tray /trunking changes direction or cable drops out of the cable tray.

Refer section 6 of this regulation for installation details.