

4.2.2 Minimum Size of Conductors

The minimum size of conductor used for lighting circuit shall be 2.5 mm² and 4 mm² for utility socket.

4.2.3 Current rating, size and Voltage drop

All cables shall be adequately sized to continuously carry the normal current of the individual circuits based on various laying conditions as applicable and the maximum ambient temperature (BS 7769).

Typical selection of the cables recommended as a minimum for general purpose applications, in the Emirate of Dubai, is given in Appendix.5, Tables 1,2 & 3.

The maximum voltage drop from the point of supply to any point/equipment, appliances and apparatus connected in the wiring installation shall not exceed 4% of the nominal voltage of the electric supply, unless otherwise specified.

4.2.4 Colour Identification

The colour identification of insulated cable cores of unarmoured, armoured and flexible cables and of Sleeve, band or disc of bare conductors shall be as given in Appendix. 6.

4.2.5 Wiring Installations Exposed to High Temperatures

Any part of the wiring installations such as the individual circuit cables, final connections to equipment, appliances and light fittings shall be suitably rated for their satisfactory performance at temperatures likely to be encountered, by providing heat resistant sleeves/beeds for individual cores and/or heat resistant cables.

The heat resistant sleeves and cables shall be rated for operating temperatures not less than 85°C, particularly for end connections to luminaries with incandescent and halogen lamps and fixed heating appliances.

4.2.6 Wiring Installations in Hazardous areas

All light fittings & wiring accessories and other electrical equipment for use in potentially hazardous atmospheres shall be selected as per the guidelines specified in BS EN 60079.

4.2.7 Load Balancing

In all cases where three phase supply is availed, the various categories of connected load