

SECTION - 4

SELECTION OF CABLES, EQUIPMENT, MATERIALS & WIRING SYSTEMS

4.1 GENERAL

- 4.1.1 All equipment and materials used in electrical installations shall be of good quality. Complying with the relevant section/clause of this regulation as a minimum requirement.
- 4.1.2 Every item of equipment used in the installation shall be designed and rated for operations on the nominal electric supply voltage declared by DEWA.

4.2 CABLES AND CONDUCTORS

4.2.1 Selection

For general purposes and in normal situations PVC/XLPE insulated, stranded copper conductor cables complying with respective BS 5467, BS 6004, BS 6724, BS 7211, BS 7629, BS 7846, BS 7889, BS 8436 shall be used for all fixed wiring installation of buildings and other premises as applicable.

In flammable/explosive situations, the cables shall be mineral insulated copper sheathed complying with BS EN 60702.

Flexible cables and cords for use in electrical installation shall be PVC insulated and sheathed, stranded copper conductors complying with BS 6004/BS 6500.

Cables for connection between ceiling rose and lamp holder for pendant type light fittings and for enclosed luminaire shall be heat resistant silicone rubber insulated with stranded copper conductor complying with BS EN 50525.

For lifts and similar applications rubber insulated or PVC insulated flexible cables complying with BS EN 50214 shall be used.

KWH meter tails shall normally be single core PVC insulated and sheathed cables complying with BS 6004.

The cables used for control, relays, instrument panels, etc. shall comply with BS 6231.

Single core cables armoured with steel wire or tape shall not be used for ac circuits.