

SECTION - 7

INSTALLATION OF CABLES, EQUIPMENT, ACCESSORIES AND WIRING SYSTEMS

7.1 ARMoured CABLES

- 7.1.1 Armoured cables may be installed either directly buried in ground, drawn through ducts, laid in concrete trenches - cleated to wall, or mounted on cable trays.
- 7.1.2 Cables shall be installed & used in association with other equipment in accordance with BS 7671. In special environments the appropriate regulations and standards shall be observed.
- 7.1.3 The current carrying capacity of the cable/s shall be determined only after applying suitable correction factors based on the installation method of the cables
- 7.1.4 Cables shall be selected ensuring voltage drop within permissible limit as per Section 4 of this regulation.
- 7.1.5 Only armoured cables shall be used for underground installations. Precautions shall be taken to avoid mechanical damage to the cables before & during installation.
- 7.1.6 The armoured cables, for underground installation shall normally be laid at 90 cm below the ground level and provided with a layer of at least 15 cm impervious soil around. Where protective covers are required, they shall be carefully centred over the cables, throughout their length. The covers shall be of adequate width to protect the cables, with a minimum overlap of 50 mm on each side. Coloured PVC warning tapes shall be laid above the cable after filling, up to 30 cm below the ground level.
- 7.1.7 UPVC ducts with HD (Heavy Duty) manhole cover shall be provided for cables passing through drive ways/roads.
- 7.1.8 The routes of all cables shall be clearly marked by cable route markers/markings tape, at regular intervals not exceeding 10 metres along straight runs and 2 metres at deviations in the route. The route markers shall normally indicate the voltage level in Arabic and English.
- 7.1.9 Heavy duty conduit shall be provided for motor connections, external applications and locations subject to vibration, risk of mechanical damage or exposure to moisture.
- 7.1.10 Cables may be installed on cable trays at specific locations and as recommended under section 6 of this Regulations.
- 7.1.11 In the event of crossing or proximity of underground telecommunication cables and underground power cables, a minimum clearance of 100mm shall be maintained.