

shielded as per instrument's manufacturer requirements. Each multi-core cable shall at installation have not less than 25 % spare cores. All cores shall be clearly identified and terminated.

- B. Use of Multi core cable to BS 6346 or equivalent shall be permitted for cables transmitting digital signals only, in a low noise area where the use of screened cable is not warranted

#### **1.3.31.8 Installation**

- A. As far as practicable cables, serving electrical installations in the pump room, shall be installed inside Class 6 PVC-u conduits. **The Contractor shall, within 60 calendar days after award of contract**, provide fully detailed drawings showing diameter, bends and location of such conduits.
- B. Suitably dimensioned PVC-u end caps, providing a neat appearance, shall close the ends of conduits.
- C. Visible cable runs shall be installed with the utmost accuracy with regard to alignment and neatness of appearance.
- D. Cables shall be securely fixed to structures individually or in-groups as required. Where cables are exposed to climate suitable protection against weather and sun radiation shall be provided.
- E. Cable crossings into structures shall be installed in ducts or sleeves and shall be sealed with an approved waterproof compound. During installation works the Contractor shall arrange for temporary sealing all conduits, openings, ducts and the like in order to prevent accidental flooding, or animals or dirt entering the structure.
- F. Cables shall be securely clipped in straight runs using the correct type and size of saddle fixed at intervals not exceeding 450 mm. Where bends in cables are necessary a radius of 15 x cable diameter minimum shall be maintained. Cable routings shall be executed in such a manner as to provide a neat and workmanlike appearance. Protection against mechanical damage shall be provided where required.
- G. Cables shall be so routed that they will not be subject to heat from adjacent hot piping or vessels. Wherever practicable, a minimum of 300mm spacing shall be maintained.