

**PART 2 - PRODUCTS**

**2.1 WIRE AND CABLE**

**A. General:**

1. Provide wire with minimum insulating rating of 600 volts. For control or signal systems use 300 volt minimum or 600 volt where permitted to be incorporated with other wiring systems.

**B. Conductors:**

1. Electrical grade, annealed copper, tinned if rubber insulated, and fabricated in accordance with British Standards.

**C. Stranding and Number of Conductors:**

1. Cables larger than 6 mm<sup>2</sup>, stranded in accordance with KSC 3611 Class B stranding designations.
2. Control wires stranded in accordance with ASTM Class B stranding designations.
3. Cables, multi-conductor unless otherwise noted for low voltage systems.

**D. Insulated Single Conductors (Single Core):**

1. Type XLPE - Thermoplastic insulation suitable for use in wet locations up to 75°C.
2. Type XLPE - Flame Retardant: Heat-resistant thermoplastic insulation, nylon jacket rated for 90°C operation.

**E. Multi-Conductor (Multi Core) and Supervisory Control Cables:**

1. Suitable for direct burial, open air, duct or conduit installation.
2. Temperature Rating: 75°C Wet or Dry.
3. PVC or cross linked polyethylene conductor insulation; thickness satisfying requirements of British Standards, for cross-linked thermosetting polyethylene insulated conductors.
4. Flame retardant overall polyvinyl jacket satisfying requirements of British Standards.
5. Individual conductors bound together with overall binder tape prior to jacket application.
6. Individual conductors rating of 300 volts (instead of 600 volts) for cables designated Supervisory Control Cable.
7. Factory color coded in accordance with British Standards.

**F. IDENTIFICATION**

The overall jacket shall be printed at intervals not exceeding 600 mm with the following information:

1. Manufacturer's Name.