

## PVC & XLPE Insulated Low Voltage Control Cable



**Control and Auxiliary Cables**  
600/1000 V as BS: 5467, BS: 6346, IEC: 60502(1)  
Manufacturing & Construction Details

### Conductors

The conductors are bunched with seven wire strands, made from high conductivity plain annealed copper wires, aluminum wires and meet the requirements of BS: 6370 specification for conductors in insulated cables and cords, IEC: 228 specification and IS: 8130.

### Insulation

According its particular standard specification, a cable will be insulated with either, XLPE (cross -linked polyethylene) or PVC (polyvinyl chloride) PVC is suitable for a maximum continuous operating temperature of 70° C & XLPE - 90° C.

### Armour

The armour is single layer of galvanised steel wires. The direction lay of the armour is left hand and size of the armour - wire is specified in the cable standard specification.

### Core Identification

Core identification is as follows unless otherwise specified

No. of cores	Core Identification
Two core	: Red & Black
Three core	: Red Yellow & Blue
Four core	: Red Yellow Blue & Black

### Auxiliary Cables

Five and more white cores with number printing in black.

### Fillers

Wherever necessary, non-hygroscopic polypropylene fillers are applied in the interstices of multi core cables in PVC insulated unarmored control and auxiliary cables, below the outer sheath, during laying up. A PVC inner covering is included

### Bedding

The bedding normally consist of a layer extruded PVC.

### Finish

The standard finish of all cables consists of an extruded black PVC over-sheath, the external surface of which is embossed with the appropriate legend. The over sheath PVC grade is usually Type TM 1 or Type 9 or BS: 7655; although other grades, e.g. Type 85C Hard grade St2 for cable conforming to IEC: 60502 standard PVC can be supplied when specified.

PVC is intrinsically flame retardant and all cables described in this catalogue conform to IEC: 332 Part 1. On special request, electric cables can be tested under fire conditions. PVC with high oxygen index, specially formulated for enhanced fire performance can be supplied if required.