

TYPICAL EXAMPLES OF DESIGN & CONSTRUCTION AS PER IS:1554

Power Cable
Steel strip, armoured



IS Specification

Conductor : **8130**
EC Grade
Aluminium

Insulation : **5831**
PVC type
A or C

Inner Sheath : **5831**
PVC type
ST1 or ST2

Armour : **3975**
Galvanised
Steel strip

Outer Sheath : **5831**
PVC type
ST1 or ST2

Control Cable
Steel strip, armoured



Conductor :
High conductivity, Electrolytic
Grade Copper

Insulation :
PVC type
A or C

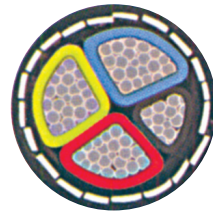
Inner Sheath :
PVC type
ST1 or ST2

Armour :
Galvanised
Steel strip

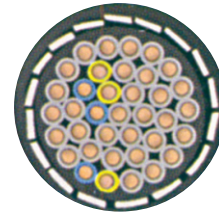
Outer Sheath :
PVC type
ST1 or ST2



CLASSIFICATION OF PVC COMPOUND



Type	Application	Max. Conductor Temperature
A	Insulation	70°C
C	Insulation	85°C
ST1	Sheath	70°C
ST2	Sheath	90°C



CORE IDENTIFICATION

For Power Cables and Control cables upto 5 cores, the cores are identified by different colour as per IS: 1554

- Single core : Red, Black, Yellow or Blue
- 2 core : Red and Black
- 3'core : Red, Yellow and Blue
- 3 core : Red, Yellow, Blue and reduced neutral core in Black
- 4 core : Red, Yellow, Blue and Black
- 5 core : Red, Yellow, Blue, Black and Grey

Where the number of cores exceed 5, two adjacent cores are blue for reference and yellow for direction in each layer. The remaining cores in each layer are grey.

On specific request we can also provide core numbering for Control cables.

PRODUCT CODE

As per IS:1554 / Part-I / 1988, the product is coded by alphabets :

- Aluminium Conductor A
- (No abbreviations are used for copper.)
- PVC insulation Y
- Steel round wire armour W
- Steel strip armour F
- Steel double round wire armour WW
- Steel double strip armour FF
- PVC outer sheath Y
- AI wire armour AW

This product code is stenciled on the surface of the drum flange.
Note : Conductor construction classified as :

r_e : single strand r_m : multi strand circular s_m : sector shaped

Note : The entire range of Power and Control cables can be supplied with Flame Retardant Low Smoke (FRLS) sheathing. These cables are also manufactured as per International Standards viz. BS 6346, IEC 60502, etc.

