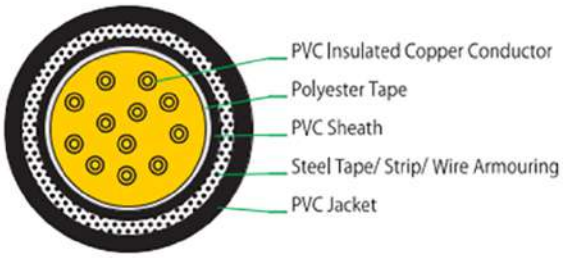
SIGNALING CABLE

Applications

- Railway Signalling

Typical Cross section for Armoured Cable



Technical Details

Nominal Cross Sectional Area	No. of Wires in Conductors	Nom. Dia of Wire	Max. Resistance at 20°C		Nom. Thickness of Insulation	
			Single Core	Multi Core	Single Core	Multi Core
Sqmm	No(s)	mm	Ω/Km	Ω/Km	mm	mm
1.0	1	1.13	17.689	18.04	1.5	0.8
1.5	1	1.4	11.54	11.77	1.5	0.8
2.5	1	1.80	6.978	7.118	1.5	0.9
2.5	3	1.06	6.843	6.980	1.5	0.9
4	1	2.24	4.506	4.596	1.5	1.0
4	7	0.85	4.591	4.683	1.5	1.0
6	1	2.8	2.884	2.942	1.5	1.0
10	7	1.4	1.660	1.693	1.5	1.0
16	7	1.70	1.124	1.149	1.5	1.0
25	7	2.24	0.6484	0.6614	1.5	1.2
35	7	2.50	0.5205	0.5309	1.5	1.2
50	19	1.8	0.3706	0.3780	1.5	1.4

Insulation Resistance (M-Ω/Km) (Dry) (500 V DC for 1 Min. at 50° C)	10 M-Ω/Km upto 2.5 mm² Conductor 5 M-Ω/Km More than 2.5 mm² Conductor
Insulation Resistance (M-Ω/Km) (Wet) (500 V DC for 1 Min. at 50° C	7.5 M-Ω/Km upto 2.5 mm² Conductor 5 M-Ω/Km More than 2.5 mm² Conductor
HV Test at Room Temp.	4 KV AC (rms) or 12 KV DC (for 5 Min.)

Cable Construction Details

Conductor Each conductor shall consist of a solid round/stranded wire(s) of annealed high conductivity copper, smoothly drawn, nominally circular in section , uniform in quality and resistance and free from defects.

Insulation Insulation shall be of PVC Compound conforming to requirements of Type-A compound of IS 5831:1984. Insulation color shall be as per customer specification.

Core Formation The insulated cores shall be laid up together with suitable lay. The outer most layer shall have right hand lay and the successive layers shall be laid with opposite lay. A polyester tape of suitable thickness shall be helically applied normally in cables with double steel tape with suitable overlap.

Inner Sheath The inner sheath shall be of PVC Compound conforming to requirements of Type- ST1 as per IS 5831:1984.

Armouring Armouring shall consist of the either Galvanised Round Wire strip/Double Steel Tape.

Jacket The outer sheath shall be of PVC Compound conforming to requirements of Type- ST1 as per IS 5831:1984.

Features:

- Availability of conductor sizes ranging from 1.13 mm to 2.80 mm diameter. Cable size ranging from 2 core to 100 cores with 1.0 Sqmm to 50 Sqmm.
- Suitable for use on AC systems (Earthed or unearthed) for rated voltage upto 1100 volts
- Suitable for use on DC systems for rated voltage upto 1500 volts