



TWO CORE ALUMINUM PVC INSULATED CABLE

PRODUCT DETAILS

2 Core, Aluminum Conductor, PVC Insulated, Un-armoured / GS Round wire Armoured / GS Flat Strip Armoured, PVC Outer Sheath Cable conforming to IS 1554 Part-1 with up to date amendment.

- Voltage Rating : 1100 Volts
- Temperature Rating : -5°C to +85°C
- UV Resistance
- RoHS Compliant

TECHNICAL SPECIFICATIONS

Material		Ref. Spec
Conductor	Aluminum Conductor	IS 8130
Insulation	Extruded PVC Type -A, Extruded HR PVC Type -C	IS 5831
Insulation Colour	Red & Black	IS 1554 Part-1
Inner Sheath	Extruded PVC Type ST-1, Extruded HR PVC Type ST-2	IS 5831
Armouring (as applicable)	GS Round Wire GS Flat Strip	IS 3975
Outer Sheath	Extruded PVC Type ST-1, Extruded HR PVC Type ST-2	IS 5831
Colour	Black or optional	
Special Properties (on request)	Flame Retardant Flame Retardant Low Smoke Flame Retardant Low Smoke Zero Halogen	

Cross Sectional Area (sqmm)	Insulation Thickness (Nominal)	Inner Sheath Thickness (Minimum)	Unarmoured Cables (AYY)		Flat Strip Armoured Cable (AYFY)			Round Wire Armoured Cable (AYWY)			Current Rating		DC Resistance At 20°C (Max)	AC Resistance
			Outer Sheath Thickness (Nominal)	Overall Diameter (Approx)	Armour Dimension (Flat Strip)	Outer Sheath Thickness (Minimum)	Overall Diameter (Approx)	Armour Dimension (Round Wire)	Outer Sheath Thickness (Minimum)	Overall Diameter (Approx)	Ground	Air		
4	1.0	0.3	1.8	14	-	-	-	1.4	1.24	18	32	27	7.41	8.89
6	1.0	0.3	1.8	17	-	-	-	1.4	1.24	19	40	35	4.61	5.53
10	1.0	0.3	1.8	18	-	-	-	1.4	1.24	20	55	47	3.08	3.70
16	1.0	0.3	1.8	17	4 x 0.80	1.40	18	1.6	1.40	20	70	59	1.91	2.29
25	1.2	0.3	2.0	19	4 x 0.80	1.40	20	1.6	1.40	22	90	78	1.20	1.44
35	1.2	0.3	2.0	21	4 x 0.80	1.40	22	1.6	1.40	23	110	99	0.868	1.04
50	1.4	0.3	2.0	24	4 x 0.80	1.40	25	1.6	1.56	26	135	125	0.641	0.769
70	1.4	0.3	2.0	26	4 x 0.80	1.56	27	1.6	1.56	29	160	150	0.443	0.532
95	1.6	0.4	2.2	30	4 x 0.80	1.56	30	2.0	1.56	33	190	185	0.320	0.384
120	1.6	0.4	2.2	32	4 x 0.80	1.56	32	2.0	1.72	35	210	210	0.253	0.304
150	1.8	0.4	2.4	34	4 x 0.80	1.72	35	2.0	1.72	37	240	240	0.206	0.247
185	2.0	0.5	2.4	38	4 x 0.80	1.88	38	2.0	1.88	41	275	275	0.164	0.197
240	2.2	0.5	2.6	42	4 x 0.80	2.04	43	2.5	2.04	47	320	325	0.125	0.150
300	2.4	0.6	2.8	46	4 x 0.80	2.20	48	2.5	2.20	50	355	365	0.100	0.120
400	2.6	0.7	3.2	52	4 x 0.80	2.36	53	3.15	2.52	58	385	420	0.0778	0.0934
500	3.0	0.7	3.4	54	4 x 0.80	2.68	56	3.15	2.84	64	425	475	0.0605	0.0726
630	3.4	0.7	3.8	65	4 x 0.80	2.84	66	4.0	3.00	72	645	540	0.0469	0.0563



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