



THREE CORE ALUMINUM PVC INSULATED CABLE

PRODUCT DETAILS

3 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 +70°C/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	Natural or Red or Yellow, or Blue or Black	IS 1554 Part-1
Inner Sheath	Not Applicable	IS 5831
Armouring (as applicable)	HD Aluminum Round Wire, HD Aluminum Flat Strip	IS 8130
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 (YY)		Flat Strip Armoured Cable (YFY)			Round Wire Armoured Cable (YWY)			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	16	-	-	-	1.4	1.24	18	28	23	7.41	8.89
6	1.0	0.3	1.8	18	-	-	-	1.4	1.24	19	35	30	4.61	5.53
10	1.0	0.3	1.8	19	-	-	-	1.4	1.40	21	46	40	3.08	3.70
16	1.0	0.3	1.8	19	4 x 0.80	1.40	20	1.6	1.40	21	60	51	1.91	2.29
25	1.2	0.3	2.0	22	4 x 0.80	1.40	23	1.6	1.40	23	76	70	1.20	1.44
35	1.2	0.3	2.0	24	4 x 0.80	1.40	24	1.6	1.40	26	92	86	0.868	1.04
50	1.4	0.3	2.0	27	4 x 0.80	1.56	27	1.6	1.56	29	110	105	0.641	0.769
70	1.4	0.4	2.2	30	4 x 0.80	1.56	31	2.0	1.56	33	135	130	0.443	0.532
95	1.6	0.4	2.2	34	4 x 0.80	1.56	35	2.0	1.56	37	165	155	0.320	0.384
120	1.6	0.4	2.2	37	4 x 0.80	1.72	37	2.0	1.72	39	185	180	0.253	0.304
150	1.8	0.5	2.4	40	4 x 0.80	1.88	41	2.0	1.88	43	210	205	0.206	0.247
185	2.0	0.5	2.6	44	4 x 0.80	1.88	46	2.5	2.04	49	235	240	0.164	0.197
240	2.2	0.6	2.8	50	4 x 0.80	2.20	51	2.5	2.20	54	275	280	0.125	0.150
300	2.4	0.6	3.0	55	4 x 0.80	2.36	56	2.5	2.36	59	305	315	0.100	0.120
400	2.6	0.7	3.4	62	4 x 0.80	2.52	63	3.15	2.68	68	335	375	0.0778	0.0934
500	3.0	0.7	3.6	69	4 x 0.80	2.84	70	3.15	2.84	75	370	425	0.0605	0.0726
630	3.4	0.7	4.0	77	4 x 0.80	3.00	78	4.0	3.00	84	405	480	0.0469	0.0563

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