



SINGLE CORE ALUMINUM PVC INSULATED CABLE

PRODUCT DETAILS

Single Core, Aluminum Conductor, PVC Insulated, Un-armoured / Aluminum Round wire Armoured / Aluminum 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	Red, Yellow, Blue & 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	1.8	8.0	1.3	-	-	-	1.4	1.24	11.0	31	30	7.41	8.89
6	1.0	1.8	9.0	1.3	-	-	-	1.4	1.24	12.0	39	35	4.61	5.53
10	1.0	1.8	10.0	1.3	-	-	-	1.4	1.24	13.0	51	47	3.08	3.70
16	1.0	1.8	11.0	1.3	-	-	-	1.4	1.24	14.0	66	64	1.91	2.29
25	1.2	1.8	13.0	1.5	-	-	-	1.4	1.24	15.0	86	84	1.20	1.44
35	1.2	1.8	14.0	1.5	-	-	-	1.4	1.24	16.0	100	105	0.868	1.04
50	1.4	1.8	16.0	1.7	-	-	-	1.4	1.24	18.0	120	130	0.641	0.769
70	1.4	1.8	17.0	1.7	-	-	-	1.4	1.40	20.0	140	155	0.443	0.532
95	1.6	1.8	19.0	1.9	4 x 0.80	1.40	21	1.6	1.40	22.0	175	190	0.320	0.384
120	1.6	2.0	21.0	1.9	4 x 0.80	1.40	23	1.6	1.40	24.0	195	220	0.253	0.304
150	1.8	2.0	23.0	2.1	4 x 0.80	1.40	24	1.6	1.40	26.0	220	250	0.206	0.247
185	2.2	2.0	25.0	2.3	4 x 0.80	1.40	27	1.6	1.40	29.0	240	290	0.164	0.197
240	2.2	2.0	28.0	2.5	4 x 0.80	1.40	30	1.6	1.56	32.0	270	335	0.125	0.150
300	2.4	2.0	30.0	2.7	4 x 0.80	1.56	32	1.6	1.56	33.0	295	380	0.100	0.120
400	2.6	2.2	35.0	3.0	4 x 0.80	1.56	37	2.0	1.56	39.0	325	435	0.0778	0.0934
500	3.0	2.2	38.0	3.4	4 x 0.80	1.56	40	2.0	1.72	42.0	345	480	0.0605	0.0726
630	3.4	2.4	43.0	3.9	4 x 0.80	1.72	45	2.0	1.88	48.0	390	550	0.0469	0.0563
800	3.4	2.4	48.0	3.9	4 x 0.80	1.88	49	2.0	1.88	52.0	450	610	0.0367	0.0440
1000	3.4	2.6	52.0	3.9	4 x 0.80	2.04	55	2.5	2.04	59.0	500	680	0.0291	0.0349

This document is the property of SVARN No one is to retain, pass on amend or otherwise use this document, unless specially authorized/permitted by Chief Executive Officer of SVARN



CORP. OFFICE: Plot No. 1, Site No. 1, 14/3, Mathura Road, Faridabad – 121003, Haryana

☎ 1800 121 222 999 ✉ info@svarn.com 🌐 www@svarn.com