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THREE ALUMINUM XLPE INSULATED CABLE

PRODUCT DETAILS

3 Core, Aluminum Conductor, XLPE Insulated, Un-armoured / GS Round wire Armoured / GS Flat Strip Armoured, PVC Outer Sheath Cable conforming to IS 7098 Part-1 with up to date amendment.

- Voltage Rating : 1100 Volts
- Temperature Rating : -40°C to +90°C
- UV Resistance
- RoHS Compliant

TECHNICAL SPECIFICATIONS

Material		Ref. Spec
Conductor	Aluminum Conductor	IS 8130
Insulation	XLPE	IS 7098 Part-1
Insulation Colour	Red, Yellow & Black	IS 7098 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 (A2XY)		Flat Strip Armoured Cable (A2XFY)			Round Wire Armoured Cable (A2XWY)			Current Rating		DC Resistance At 20°C (Max)	AC Resistance At 90°C (Approx)
			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	0.7	0.3	1.8	14	-	-	-	1.4	1.24	15	34	30	7.41	9.48
6	0.7	0.3	1.8	15	-	-	-	1.4	1.24	16	43	40	4.61	5.90
10	0.7	0.3	1.8	17	-	-	-	1.4	1.24	18	57	53	3.08	3.94
16	0.7	0.3	1.8	18	4 x 0.80	1.24	18	1.6	1.4	20	78	70	1.91	2.44
25	0.9	0.3	2.0	20	4 x 0.80	1.4	20	1.6	1.4	23	95	99	1.20	1.54
35	0.9	0.3	2.0	22	4 x 0.80	1.4	23	1.6	1.4	25	116	117	0.868	1.11
50	1.0	0.3	2.0	24	4 x 0.80	1.4	25	1.6	1.56	27	140	140	0.641	0.820
70	1.1	0.4	2.2	29	4 x 0.80	1.56	30	2.0	1.56	32	170	176	0.443	0.567
95	1.1	0.4	2.2	32	4 x 0.80	1.56	33	2.0	1.56	35	200	221	0.320	0.410
120	1.2	0.4	2.2	34	4 x 0.80	1.56	35	2.0	1.72	38	225	258	0.253	0.324
150	1.4	0.5	2.4	38	4 x 0.80	1.72	40	2.0	1.88	43	255	294	0.206	0.264
185	1.6	0.5	2.6	43	4 x 0.80	1.88	44	2.5	2.04	48	285	339	0.164	0.210
240	1.7	0.6	2.8	48	4 x 0.80	2.04	49	2.5	2.20	53	325	402	0.125	0.160
300	1.8	0.6	3.0	52	4 x 0.80	2.20	53	2.5	2.36	57	370	461	0.100	0.128
400	2.0	0.7	3.2	59	4 x 0.80	2.52	59	3.15	2.68	65	435	542	0.0778	0.100
500	2.2	0.7	3.6	66	4 x 0.80	2.68	66	3.15	2.84	72	481	624	0.0605	0.0774
630	2.4	0.7	3.8	73	4 x 0.80	2.84	73	4.0	3.0	80	537	723	0.0469	0.0600

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1800-121-222-999 | info@svarn.com | www.svarn.com

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