

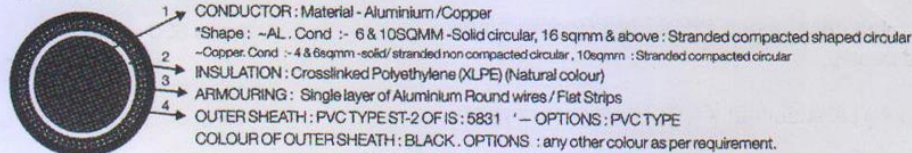
TECHNICAL DETAIL FOR CURRENCY 1.1 KV. SINGLE CORE, AL/COPPER COND., XLPE INSULATED, AL WIRE/STRIP ARMOURED CABLES

Cable Code : A2XFay / 2XFay, A2XWay / 2XWay

Physical Parameters

SIZE Cross-sectional area (sqmm)	Minimum No. of Strands in Conductor		Nominal Thickness of Insulation (mm)	ARMOURING WITH FLAT STRIP(A2XFay/2XFay)					ARMOURING WITH ROUND WIRES(A2XWay/2XWay)				
	Al	Cu		Nominal Thickness Strip (mm)	Minimum Thickness of outer sheath (mm)	Approx. Overall Diameter (mm)	Approx. Net Wt of cable (Kg/KM)		Nominal Diameter of wire (mm)	Minimum Thickness of outer sheath (mm)	Approx. Overall Diameter (mm)	Approx. Net Wt of cable (Kg/KM)	
							A2XFay	2XFay				A2XWay	2XWay
4	—	1/7	1.0	N/A	N/A	N/A	N/A	N/A	1.40	1.24	11	90	130
6	1	1/7	1.0	N/A	N/A	N/A	N/A	N/A	1.40	1.24	10	130	170
10	1	6	1.0	N/A	N/A	N/A	N/A	N/A	1.40	1.24	12	160	222
16	6	6	1.0	N/A	N/A	N/A	N/A	N/A	1.40	1.24	13	200	300
25	6	6	1.2	N/A	N/A	N/A	N/A	N/A	1.40	1.24	14	300	455
35	6	6	1.2	N/A	N/A	N/A	N/A	N/A	1.40	1.24	15	350	567
50	6	6	1.3	N/A	N/A	N/A	N/A	N/A	1.40	1.24	17	420	730
70	12	12	1.4	N/A	N/A	N/A	N/A	N/A	1.40	1.24	19	520	954
95	15	15	1.4	0.80	1.40	21	600	1195	1.60	1.40	22	650	1235
120	15	18	1.5	0.80	1.40	23	700	1450	1.60	1.40	24	750	1494
150	15	18	1.7	0.80	1.40	24	800	1730	1.60	1.40	25	850	1780
185	30	30	1.9	0.80	1.40	26	950	2100	1.60	1.40	28	1000	2147
240	30	34	2.0	0.80	1.40	30	1200	2690	1.60	1.40	30	1250	2738
300	30	34	2.1	0.80	1.56	32	1400	3270	1.60	1.56	33	1500	3360
400	53	53	2.4	0.80	1.56	36	1750	4230	2.00	1.56	38	1900	4380
500	53	53	2.6	0.80	1.56	39	2150	5250	2.00	1.56	41	2350	5450
630	53	53	2.8	0.80	1.72	44	2700	6610	2.00	1.72	46	2900	6806
800	53	53	3.1	0.80	1.72	48	3350	8320	2.00	1.88	51	3600	8560
1000	53	53	3.3	0.80	1.88	54	4100	10300	2.50	2.04	56	4600	10800

Cross-Sectional View



- Tabulated approx. net wt. of cables are only guidelines for transportation, loading & unloading purpose...
 - Please ref page no 45 for normal delivery lengths & packing details.

Electrical Parameters

SIZE Cross-sectional area (sq MM)	Max. Cond. D.C. Resistance at 20°C in Ohm/km		Approx. Cond. A.C. Resistance at 90°C in Ohm/km		App. Reactance of cable at 50HZ in ohm/km	App. Capacitance of cable in microF/KM	Normal* Current Rating in Amperes						Short Circuit Current Rating for 1Sec duration in K. Amperes	
	Al	Cu	Al	Cu			With Aluminium cond.			With Copper cond.			Al	Cu
							Ground	Duct	Air	Ground	Duct	Air		
4	—	4.61	—	5.90	0.152	0.22	—	—	—	48	47	45	0.376	0.572
6	4.61	3.08	5.90	3.94	0.144	0.26	45	45	40	60	59	57	0.56	0.858
10	3.06	1.83	3.94	2.34	0.133	0.31	59	62	53	80	78	77	0.94	1.43
16	1.91	1.15	2.44	1.47	0.122	0.40	76	80	73	104	102	106	1.50	2.29
25	1.20	0.727	1.54	0.931	0.116	0.40	99	90	115	130	115	145	2.35	3.58
35	0.868	0.524	1.11	0.671	0.110	0.47	117	110	140	155	140	175	3.29	5.01
50	0.641	0.387	0.820	0.495	0.103	0.50	138	125	170	185	165	215	4.70	7.15
70	0.443	0.268	0.567	0.343	0.099	0.55	168	155	210	225	200	270	6.58	10.01
95	0.320	0.193	0.411	0.248	0.097	0.64	204	185	255	265	235	330	8.93	13.59
120	0.253	0.153	0.325	0.197	0.093	0.67	230	210	300	300	265	360	11.28	17.18
150	0.206	0.1240	0.265	0.159	0.091	0.67	265	230	342	335	300	430	14.10	21.45
185	0.164	0.0991	0.211	0.127	0.090	0.67	295	260	385	380	335	495	17.39	26.46
240	0.125	0.0754	0.162	0.0976	0.086	0.72	340	300	450	435	385	590	22.56	34.32
300	0.100	0.0601	0.130	0.0778	0.085	0.75	390	335	519	490	430	670	28.20	42.90
400	0.0778	0.0470	0.1023	0.0618	0.085	0.75	450	380	605	550	480	780	37.60	57.20
500	0.0605	0.0366	0.0808	0.0489	0.083	0.77	500	430	700	610	530	900	47.00	71.50
630	0.0469	0.0283	0.0648	0.0391	0.082	0.81	555	485	809	690	590	1020	59.22	90.09
800	0.0367	0.0221	0.0530	0.0319	0.081	0.88	625	530	935	740	630	1140	75.20	114.40
1000	0.0291	0.0176	0.0444	0.0268	0.081	0.88	690	570	1065	780	660	1250	94.00	143.00