

3.5 CORE ALUMINIUM XLPE ARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of strand in conductor	Thickness of xlpe insulation		Min Thickness of inner sheath	Nominal Dimensions of armour		Min.Thickness of pvc outer sheath		Overall Diameter (Approx) (nom)		Approx.Net Wt. of Cable		Max D.C. Resistance at 20 c	Max A.C. Resistance at 90 C	Approx Reactance at 50 Hz	Approx capacitance	CURRENT RAATING			
			(MM)	(MM)		(MM)	(MM)	(MM)	(MM)	Kg/Km	Kgs./Km	Ohms/Km	Ohms/Km					Ohms/Km	mFd/Km	Amps	Amps
A2XWY/A2XFY	3.5 X 25/16	6/6	0.90	0.70	0.30	1.60	4 x0.80	1.40	1.40	23	22	1000	800	1.20	1.54	0.080	0.20	95	99		
A2XWY/A2XFY	3.5 X 35/16	6/6	0.90	0.70	0.30	1.60	4 x0.80	1.40	1.40	26	24	1200	1650	0.868	1.11	0.080	0.23	116	117		
A2XWY/A2XFY	3.5 X50/25	6/6	1.00	0.90	0.30	1.60	4 x0.80	1.56	1.40	28	27	1450	2150	0.641	0.82	0.078	0.24	140	140		
A2XWY/A2XFY	3.5X 70/35	12/6	1.10	0.90	0.40	2.00	4 x0.80	1.56	1.56	33.0	31	2000	2850	0.443	0.567	0.077	0.26	170	176		
A2XWY/A2XFY	3.5X95/50	15/6	1.10	1.00	0.40	2.00	4 x0.80	1.56	1.56	36.0	34	2400	3800	0.320	0.411	0.074	0.29	200	221		
A2XWY/A2XFY	3.5X120/70	15/12	1.20	1.10	0.40	2.00	4 x0.80	1.72	1.72	40.0	38	2900	4750	0.253	0.325	0.072	0.29	225	258		
A2XWY/A2XFY	3.5 X150/70	15/12	1.40	1.10	0.50	2.00	4 x0.80	1.88	1.88	44.0	41	3400	5600	0.206	0.265	0.072	0.29	255	294		
A2XWY/A2XFY	3.5 X185/95	30/15	1.60	1.10	0.50	2.50	4 x0.80	2.04	2.04	50.0	46	4450	7000	0.164	0.211	0.072	0.29	285	339		
A2XWY/A2XFY	3.5X240/120	30/15	1.70	1.20	0.60	2.50	4 x0.80	2.20	2.20	54.0	50	5250	8900	0.125	0.162	0.072	0.31	325	402		
A2XWY/A2XFY	3.5X300/150	30/15	1.80	1.40	0.60	2.50	4 x0.80	2.36	2.36	59.0	55	6200	11000	0.100	0.13	0.071	0.33	370	461		
A2XWY/A2XFY	3.5X400/185	53/30	2.00	1.60	0.70	3.15	4 x0.80	2.68	2.68	66.0	62	8200	13850	0.0778	0.1023	0.070	0.33	435	542		
A2XWY/A2XFY	3.5X500/240	53/30	2.20	1.70	0.70	3.15	4 x0.80	2.84	2.84	77.0	72	10150	17650	0.0605	0.0808	0.070	0.34	481	624		
A2XWY/A2XFY	3.5 x 630/300	53/30	2.40	1.80	0.70	4.00	4 x0.80	3.00	3.0	86.0	80	13250	22400	0.0469	0.0648	0.069	0.36	537	723		

ARMoured CABLES

Cross-sectional view



UNARMoured CABLES

Cross-sectional view



3.5 CORE ALUMINIUM XLPE UNARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of strand in conductor	Thickness of xlpe insulation		Min Thickness of inner sheath	Min.Thick ness of pvc outer sheath	Overall Daimeter (Approx)	Net Wt. of cable (Approx)	Max.D.C. Resistance at 20 C	Max.A.C. Resistance at 90 C	Approx Reactance at 50 Hz	Approx Capaci tance	CURRENT RATING	
			(MM)	(MM)									Amps	Amps
A2XY	3.5 X 25/16	6/6	0.90	0.70	0.3	2.0	21	600	1.20	1.54	0.08	0.20	95	99
A2XY	3.5 X 35/16	6/6	0.90	0.70	0.3	2.0	24	700	0.868	1.11	0.08	0.23	116	117
A2XY	3.5 X50/25	6/6	1.00	0.90	0.3	2.0	26	900	0.641	0.82	0.078	0.24	140	140
A2XY	3.5X 70/35	12/6	1.10	0.90	0.4	2.2	30	1200	0.443	0.567	0.077	0.26	170	176
A2XY	3.5X95/50	15/6	1.10	1.00	0.4	2.2	34	1500	0.320	0.411	0.074	0.29	200	221
A2XY	3.5X120/70	15/12	1.20	1.10	0.4	2.2	37	1800	0.253	0.325	0.072	0.29	225	258
A2XY	3.5 X150/70	15/12	1.40	1.10	0.5	2.4	41	2250	0.206	0.265	0.072	0.29	255	294
A2XY	3.5 X185/95	30/15	1.60	1.10	0.5	2.6	46	2800	0.164	0.211	0.072	0.29	285	339
A2XY	3.5X240/120	30/15	1.70	1.20	0.6	2.8	50	3550	0.125	0.162	0.072	0.31	325	402
A2XY	3.5X300/150	30/15	1.80	1.40	0.6	3.0	55	4300	0.100	0.13	0.071	0.33	370	461
A2XY	3.5X400/185	53/30	2.00	1.60	0.7	3.4	62	5450	0.0778	0.1023	0.07	0.33	435	542
A2XY	3.5X500/240	53/30	2.20	1.70	0.7	3.6	72	6900	0.0605	0.0808	0.07	0.34	481	624
A2XY	3.5 x630/300	53/30	2.40	1.80	0.7	4	80	8700	0.0469	0.0648	0.069	0.36	537	723