

FOUR 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 RATING	
					Wire	Strip	wire	strip	Wire	Strip	Wire	Strip					Direct in Ground	In Air
					(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	Kg/Km	Kg/Km					Amps	Amps
A2XWY	4 x 4	1/3	0.70	0.30	1.40	-	1.24	-	16	-	440	-	7.41	9.48	0.098	0.11	34	30
A2XWY	4 x 6	1/3	0.70	0.30	1.40	-	1.24	-	17	-	520	-	4.61	5.90	0.09	0.13	43	40
A2XWY	4 x 10	6	0.70	0.30	1.40	-	1.40	-	19	-	620	-	3.08	3.94	0.084	0.16	57	53
A2XWY/A2XFY	4 x 16	6	0.70	0.30	1.60	4 x 0.80	1.40	1.4	21	20	850	650	1.91	2.44	0.080	0.18	78	70
A2XWY/A2XFY	4 x 25	6	0.90	0.30	1.60	4 x 0.80	1.40	1.4	24	23	1100	850	1.20	1.54	0.080	0.20	95	99
A2XWY/A2XFY	4 x 35	6	0.90	0.30	1.60	4 x 0.80	1.40	1.4	26	25	1300	1000	0.868	1.11	0.080	0.23	116	117
A2XWY/A2XFY	4x50	6	1.00	0.30	1.60	4 x 0.80	1.56	1.56	29	28	1550	1300	0.641	0.820	0.078	0.24	140	140
A2XWY/A2XFY	4 x 70	6	1.10	0.40	2.00	4 x 0.80	1.56	1.56	34	32	2200	1650	0.443	0.567	0.077	0.26	170	176
A2XWY/A2XFY	4 x 95	12	1.10	0.40	2.00	4 x 0.80	1.72	1.56	38	35	2700	2000	0.32	0.411	0.074	0.29	200	221
A2XWY/A2XFY	4 x 120	15	1.20	0.50	2.00	4 x 0.80	1.88	1.72	42	39	3200	2500	0.253	0.325	0.072	0.29	225	258
A2XWY/A2XFY	4 x 150	15	1.40	0.50	2.50	4 x 0.80	2.04	1.88	47	43	4100	2950	0.206	0.265	0.072	0.29	255	294
A2XWY/A2XFY	4 x 185	30	1.60	0.50	2.50	4 x 0.80	2.20	2.04	52	48	4850	3600	0.164	0.211	0.072	0.29	285	339
A2XWY/A2XFY	4 x 240	30	1.70	0.60	2.50	4 x 0.80	2.36	2.2	58	54	5950	4500	0.125	0.162	0.072	0.31	325	402
A2XWY/A2XFY	4 x 300	30	1.80	0.70	3.15	4 x 0.80	2.52	2.36	66	61	7750	5500	0.1	0.130	0.071	0.33	370	460
A2XWY/A2XFY	4 x 400	53	2.00	0.70	3.15	4 x 0.80	2.84	2.68	73	68	9350	6850	0.0778	0.1023	0.070	0.33	435	542
A2XWY/A2XFY	4 x 500	53	2.20	0.70	4.00	4 x 0.80	3.00	2.84	82	75	12400	8500	0.0605	0.0808	0.070	0.34	481	624
A2XWY/A2XFY	4 x 630	53	2.40	0.70	4.00	4 x 0.80	3.00	3	91	84	14750	10550	0.0469	0.0648	0.069	0.36	537	723

ARMoured CABLES

Cross-sectional view



UNARMoured CABLES

Cross-sectional view



FOUR CORE ALUMINIUM XLPE UNARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation	Min Thickness of inner sheath	Nominal Thickness of pvc outer sheath	Overall Diameter (Approx)	Approx Weight of Cables	Max D.C. Resistance at 20 C	Max A.C Resistance at 90 C	Approx Reactance at 50 Hz	Approx capacitance	CURRENT RAATING	
												Direct in Ground	In Air
												Amps	Amps
A2XY	4 x 4	1/3	0.70	0.30	1.80	14.0	230	7.41	9.48	0.098	0.11	34	30
A2XY	4 x 6	1/3	0.70	0.30	1.80	15	290	4.61	5.90	0.090	0.13	43	40
A2XY	4 x 10	6	0.70	0.30	1.80	17	360	3.08	3.94	0.084	0.16	57	53
A2XY	4 x 16	6	0.70	0.30	1.80	19	450	1.91	2.44	0.080	0.18	78	70
A2XY	4 x 25	6	0.90	0.30	2.00	22.0	600	1.20	1.54	0.080	0.20	95	99
A2XY	4 x 35	6	0.90	0.30	2.00	24.0	750	0.868	1.11	0.080	0.23	116	117
A2XY	4x50	6	1.00	0.30	2.00	27.0	950	0.641	0.820	0.078	0.24	140	140
A2XY	4 x 70	6	1.10	0.40	2.20	31.0	1300	0.443	0.567	0.077	0.26	170	176
A2XY	4 x 95	12	1.10	0.40	2.20	35.0	1700	0.32	0.411	0.074	0.29	200	221
A2XY	4 x 120	15	1.20	0.50	2.40	39.0	2100	0.253	0.325	0.072	0.29	225	258
A2XY	4 x 150	15	1.40	0.50	2.60	43.0	2550	0.206	0.265	0.072	0.29	255	294
A2XY	4 x 185	30	1.60	0.50	2.80	48.0	3150	0.164	0.211	0.072	0.29	285	339
A2XY	4 x 240	30	1.70	0.60	3.00	54.0	4000	0.125	0.162	0.072	0.31	325	402
A2XY	4 x 300	30	1.80	0.70	3.20	61.0	4950	0.1	0.130	0.071	0.33	370	460
A2XY	4 x 400	53	2.00	0.70	3.60	68	6250	0.0778	0.1023	0.070	0.33	435	542
A2XY	4 x 500	53	2.20	0.70	3.80	75	7800	0.0605	0.0808	0.070	0.34	481	624
A2XY	4 x 630	53	2.40	0.70	4.00	84.0	9800	0.0469	0.0648	0.069	0.36	537	723