



### THREE CORE ALLUMINIUM XLPE ARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of strand in conductor	Thickness of xlpe insulation (Nom)	Min Thickness of inner sheath	Nominal Dimensions of armour		Min.Thickness of pvc outer sheath		Overall Diameter (Approx)		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	Kgs./Km	Kgs./Km					Ohm/Km	Ohm/Km
A2XWY	3 C X4	1/3	0.70	0.30	1.40	-	1.24	-	15	-	400	-	7.41	9.48	0.098	0.11	34	30
A2XWY	3 C X6	1/3	0.70	0.30	1.40	-	1.24	-	16	-	460	-	4.61	5.90	0.090	0.13	43	40
A2XWY	3 C X10	1/7	0.70	0.30	1.40	-	1.24	-	17	-	540	-	3.08	3.94	0.084	0.16	57	53
A2XWY/A2XFY	3 C X16	6	0.70	0.30	1.60	4 X 0.80	1.40	1.24	20	18	700	550	1.91	2.44	0.080	0.18	78	70
A2XWY/A2XFY	3 C X25	6	0.90	0.30	1.60	4 X 0.80	1.40	1.40	22	20	900	700	1.20	1.54	0.080	0.2	95	99
A2XWY/A2XFY	3 C X35	6	0.90	0.30	1.60	4 X 0.80	1.40	1.40	24	22	1050	850	0.868	1.11	0.080	0.23	116	117
A2XWY/A2XFY	3 C X50	6	1.00	0.30	1.60	4 X 0.80	1.56	1.40	27	25	1300	1000	0.641	0.82	0.078	0.24	140	140
A2XWY/A2XFY	3 C X70	12	1.10	0.30	2.00	4 X 0.80	1.56	1.56	31	29	1800	1350	0.443	0.567	0.077	0.26	170	176
A2XWY/A2XFY	3 C X95	15	1.10	0.40	2.00	4 X 0.80	1.56	1.56	34	31	2150	1600	0.320	0.411	0.074	0.29	200	221
A2XWY/A2XFY	3 C X120	15	1.20	0.40	2.00	4 X 0.80	1.72	1.56	37	34	2550	1900	0.253	0.325	0.072	0.29	225	258
A2XWY/A2XFY	3 C X150	15	1.40	0.40	2.00	4 X 0.80	1.88	1.72	41	38	3000	2350	0.206	0.265	0.072	0.29	255	294
A2XWY/A2XFY	3 C X185	30	1.60	0.50	2.50	4 X 0.80	2.04	1.88	46	42	3950	2850	0.164	0.211	0.072	0.29	285	339
A2XWY/A2XFY	3 C X240	30	1.70	0.50	2.50	4 X 0.80	2.20	2.04	51	47	4800	3500	0.125	0.162	0.072	0.31	325	402
A2XWY/A2XFY	3 C X300	30	1.80	0.60	2.50	4 X 0.80	2.36	2.20	56	52	5600	4250	0.100	0.130	0.071	0.33	370	460
A2XWY/A2XFY	3 C X400	53	2.00	0.60	3.15	4 X 0.80	2.68	2.52	64	59	7450	5350	0.0778	0.1023	0.070	0.33	435	542
A2XWY/A2XFY	3 C X500	53	2.20	0.70	3.15	4 X 0.80	2.84	2.68	70	65	8900	6550	0.0605	0.0808	0.070	0.34	481	624
A2XWY/A2XFY	3 C X630	53	2.40	0.70	4.00	4 X 0.80	3.00	2.84	79	73	11800	8150	0.0469	0.0648	0.069	0.36	537	723

#### ARMoured CABLES

##### Cross-sectional view



#### UNARMoured CABLES

##### Cross-sectional view



**THREE CORE ALLUMINIUM XLPE UNARMoured POWER CABLES**

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation (Nom)	Min Thickness of inner sheath	Nom.Thick ness of Outersheath	Overall Diameter (Approx)	Net Wt. of Cable (Approx)	Max. D.C. Resistance at 20 C	Max .A.C. Resistance at 90 C	Approx Reactance at 50 C	Approx Capa citance	CURRENT RATING	
												Direct in Ground	In Air
			(MM)	(MM)	(MM)	(MM)	Kgs./Km	Ohm/Km	Ohm/Km	Ohm/Km	mFd/Km	Amps	Amps
A2XY	3 C X4	1/3	0.70	0.30	1.80	13	200	7.41	9.48	0.098	0.11	34	30
A2XY	3 C X6	1/3	0.70	0.30	1.80	14	250	4.61	5.90	0.090	0.13	43	40
A2XY	3 C X10	1/7	0.70	0.30	1.80	16	310	3.08	3.94	0.084	0.16	57	53
A2XY	3 C X16	6	0.70	0.30	1.80	17	350	1.91	2.44	0.080	0.18	78	70
A2XY	3 C X25	6	0.90	0.30	2.00	20	500	1.20	1.54	0.080	0.20	95	99
A2XY	3 C X35	6	0.90	0.30	2.00	22	600	0.868	1.11	0.080	0.23	116	117
A2XY	3 C X50	6	1.00	0.30	2.00	24	800	0.641	0.82	0.078	0.24	140	140
A2XY	3 C X70	12	1.10	0.30	2.20	28	1050	0.443	0.567	0.077	0.26	170	176
A2XY	3 C X95	15	1.10	0.40	2.20	31	1300	0.320	0.411	0.074	0.29	200	221
A2XY	3 C X120	15	1.20	0.40	2.20	34	1600	0.253	0.325	0.072	0.29	225	258
A2XY	3 C X150	15	1.40	0.40	2.40	38	1950	0.206	0.265	0.072	0.29	255	294
A2XY	3 C X185	30	1.60	0.50	2.60	42	2450	0.164	0.211	0.072	0.29	285	339
A2XY	3 C X240	30	1.70	0.50	2.80	47	3100	0.125	0.162	0.072	0.31	325	402
A2XY	3 C X300	30	1.80	0.60	3.00	52	3800	0.100	0.130	0.071	0.33	370	460
A2XY	3 C X400	53	2.00	0.60	3.20	58	4750	0.0778	0.1023	0.070	0.33	435	542
A2XY	3 C X500	53	2.20	0.70	3.60	65	6000	0.0605	0.0808	0.070	0.34	481	624
A2XY	3 C X630	53	2.40	0.70	3.80	73	7500	0.0469	0.0648	0.069	0.36	537	723