

3 CORE COPPER 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) (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
2XWY	3 C X4	1/3	0.70	0.30	1.40	-	1.24	-	15	-	490	-	4.61	5.90	0.098	0.11	44	39
2XWY	3 C X6	1/3	0.70	0.30	1.40	-	1.24	-	16	-	580	-	3.08	3.94	0.090	0.13	55	50
2XWY	3 C X10	1/7	0.70	0.30	1.40	-	1.24	-	17	-	750	-	1.83	2.34	0.084	0.16	74	67
2XWY/2XFY	3 C X16	6	0.70	0.30	1.60	4 X 0.80	1.40	1.24	20	18	1000	850.0	1.15	1.47	0.080	0.18	94	85
2XWY/2XFY	3 C X25	6	0.90	0.30	1.60	4 X 0.80	1.40	1.40	22	20	1350	1150.0	0.727	0.931	0.080	0.2	120	125
2XWY/2XFY	3 C X35	6	0.90	0.30	1.60	4 X 0.80	1.40	1.40	24	22	1700	1450.0	0.524	0.671	0.080	0.23	145	155
2XWY/2XFY	3 C X50	6	1.00	0.30	1.60	4 X 0.80	1.56	1.40	27	25	2100	1850.0	0.387	0.495	0.078	0.24	170	190
2XWY/2XFY	3 C X70	12	1.10	0.30	2.00	4 X 0.80	1.56	1.56	31	29	3000	2550.0	0.268	0.343	0.077	0.26	210	235
2XWY/2XFY	3 C X95	15	1.10	0.40	2.00	4 X 0.80	1.56	1.56	34	31	3800	3300.0	0.193	0.248	0.074	0.29	250	290
2XWY/2XFY	3 C X120	18	1.20	0.40	2.00	4 X 0.80	1.72	1.56	37	34	4650	4000.0	0.153	0.197	0.072	0.29	285	330
2XWY/2XFY	3 C X150	18	1.40	0.40	2.00	4 X 0.80	1.88	1.72	41	38	5600	4950.0	0.1240	0.159	0.072	0.29	315	375
2XWY/2XFY	3 C X185	30	1.60	0.50	2.50	4 X 0.80	2.04	1.88	46	42	7150	6050.0	0.0991	0.127	0.072	0.29	355	435
2XWY/2XFY	3 C X240	34	1.70	0.50	2.50	4 X 0.80	2.20	2.04	51	47	9000	7750.0	0.0754	0.0976	0.072	0.31	410	510
2XWY/2XFY	3 C X300	34	1.80	0.60	2.50	4 X 0.80	2.36	2.20	56	52	10900	9550.0	0.0601	0.0778	0.071	0.33	460	590
2XWY/2XFY	3 C X400	53	2.00	0.60	3.15	4 X 0.80	2.68	2.52	64	59	14200	12250.0	0.0470	0.0618	0.070	0.33	520	670
2XWY/2XFY	3 C X500	53	2.20	0.70	3.15	4 X 0.80	2.84	2.68	70	65	17600	15300.0	0.0366	0.0489	0.070	0.34	580	750
2XWY/2XFY	3 CX 630	53	2.40	0.70	4.00	4 X 0.80	3.00	2.84	79	73	23100	19450.0	0.0283	0.0391	0.069	0.36	680	875

ARMoured CABLES

Cross-sectional view



UNARMoured CABLES

Cross-sectional view



3 CORE COPPER XLPE UNARMoured 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	Nom. Thickness of Outer sheath	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)	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	mFd/Km	Amps	Amps
2XY	3 C X4	1/3	0.70	0.30	1.80	13	280	4.61	5.90	0.098	0.11	44	39
2XY	3 C X6	1/3	0.70	0.30	1.80	14	360	3.08	3.94	0.090	0.13	55	50
2XY	3 C X10	1/7	0.70	0.30	1.80	16	510	1.83	2.34	0.084	0.16	74	67
2XY	3 C X16	6	0.70	0.30	1.80	17	650	1.15	1.47	0.080	0.18	94	85
2XY	3 C X25	6	0.90	0.30	2.00	20	950	0.73	0.931	0.080	0.20	120	125
2XY	3 C X35	6	0.90	0.30	2.00	22	1250	0.524	0.671	0.080	0.23	145	155
2XY	3 C X50	6	1.00	0.30	2.00	24	1600	0.387	0.495	0.078	0.24	170	190
2XY	3 C X70	12	1.10	0.30	2.20	28	2250	0.268	0.343	0.077	0.26	210	235
2XY	3 C X95	15	1.10	0.40	2.20	31	3000	0.193	0.248	0.074	0.29	250	290
2XY	3 C X120	18	1.20	0.40	2.20	34	3700	0.153	0.197	0.072	0.29	285	330
2XY	3 C X150	18	1.40	0.40	2.40	38	4550.70	0.1240	0.159	0.072	0.29	315	375
2XY	3 C X185	30	1.60	0.50	2.60	42	5650	0.0991	0.127	0.072	0.29	355	435
2XY	3 C X240	34	1.70	0.50	2.80	47	7350	0.0754	0.0976	0.072	0.31	410	510
2XY	3 C X300	34	1.80	0.60	3.00	52	9100	0.0601	0.0778	0.071	0.33	460	590
2XY	3 C X400	53	2.00	0.60	3.20	58	11550	0.0470	0.0618	0.070	0.33	520	670
2XY	3 C X500	53	2.20	0.70	3.60	65	14750	0.0366	0.0489	0.070	0.34	580	750
2XY	3 CX 630	53	2.40	0.70	3.80	73	18800	0.0283	0.0391	0.069	0.36	680	875