

TWO CORE COPPER XLPEARMOURED POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation (MM)	Min Thickness of inner sheath (MM)	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 (Ohm/Km)	Max A.C Resistance at 90 C (Ohm/Km)	Approx Reactance at 50 Hz (Ohm/Km)	Approx capacitance (mFd/Km)	CURRENT RATING	
					Wire (MM)	Strip (MM)	wire (MM)	strip (MM)	Wire (MM)	Strip (MM)	Wire (Kg/Km)	Strip (Kg/Km)					Direct in Ground (Amps)	In Air (Amps)
2XWY	2 C X 4	1/3	0.70	0.30	1.40	-	1.24	-	14	-	470	-	4.61	5.90	0.098	0.11	44	39
2XWY	2 C X 6	1/3	0.70	0.30	1.40	-	1.24	-	15	-	550	-	3.08	3.94	0.09	0.13	55	50
2XWY	2 C X 10	1/7	0.70	0.30	1.40	-	1.24	-	17	-	700	-	1.83	2.34	0.084	0.16	74	67
2XWY	2 C X 16	6	0.70	0.30	1.40	-	1.40	-	17	-	750	-	1.15	1.47	0.080	0.18	94	85
2XWY/2XFY	2 C X 25	6	0.90	0.30	1.60	4 x 0.80	1.40	1.40	20	18	1050	850.0	0.727	0.931	0.080	0.2	120	125
2XWY/2XFY	2 C X 35	6	0.90	0.30	1.60	4 x 0.80	1.40	1.40	21	20	1250	1050.0	0.524	0.671	0.080	0.23	145	155
2XWY/2XFY	2 C X 50	6	1.00	0.30	1.60	4 x 0.80	1.40	1.40	23	22	1550	1350.0	0.387	0.495	0.078	0.24	170	190
2XWY/2XFY	2 C X 70	12	1.10	0.30	1.60	4 x 0.80	1.56	1.56	26	25	2050	1800.0	0.268	0.343	0.077	0.26	210	235
2XWY/2XFY	2 C X 95	15	1.10	0.40	2.00	4 x 0.80	1.56	1.56	30	27	2800	2350.0	0.193	0.248	0.074	0.29	250	290
2XWY/2XFY	2 C X 120	18	1.20	0.40	2.00	4 x 0.80	1.56	1.56	32	30	3350	2850.0	0.153	0.197	0.072	0.29	285	330
2XWY/2XFY	2 C X 150	18	1.40	0.40	2.00	4 x 0.80	1.72	1.72	35	32	4000	3450.0	0.1240	0.159	0.072	0.29	315	375
2XWY/2XFY	2 C X 185	30	1.60	0.50	2.00	4 x 0.80	1.88	1.72	38	35	4850	4200.0	0.0991	0.127	0.072	0.29	355	435
2XWY/2XFY	2 C X 240	34	1.70	0.50	2.50	4 x 0.80	2.04	1.88	44	40	6350	5400.0	0.0754	0.0976	0.072	0.31	410	510
2XWY/2XFY	2 C X 300	34	1.80	0.60	2.50	4 x 0.80	2.20	2.04	47	43	7650	6550.0	0.0601	0.0778	0.071	0.33	460	590
2XWY/2XFY	2 C X 400	53	2.00	0.60	2.50	4 x 0.80	2.36	2.36	52	49	9500	8300.0	0.0470	0.0618	0.070	0.33	520	670
2XWY/2XFY	2 C X 500	53	2.20	0.70	3.15	4 x 0.80	2.68	2.52	59	54	12300	10450.0	0.0366	0.0489	0.070	0.34	580	750
2XWY/2XFY	2 C X 630	53	2.40	0.70	3.15	4 x 0.80	2.84	2.68	64	60	15300	13200.0	0.0283	0.0391	0.069	0.36	680	875

ARMOURED XLPE CABLES Cross-sectional view



UNARMOURED XLPE CABLES Cross-sectional view



TWO CORE COPPER XLPE UNAMOURED XLPE 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 of Weight cables	Max D.C. Resistance at 20 Strip	Max A.C Resistance at 90 C	Approx Reactance at 50 Hz	Approx capacitance	CURRENT RATING	
												Direct in Ground	In Air
			(MM)	(MM)	(MM)	(MM)	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	mFd/Km	Amps	Amps
2XY	2 CX 4	1/3	0.70	0.30	1.80	12	240	4.61	5.90	0.098	0.11	44	39
2XY	2 C X6	1/3	0.70	0.30	1.80	13	300	3.08	3.94	0.090	0.13	55	50
2XY	2 C X10	6	0.70	0.30	1.80	15	420	1.83	2.34	0.084	0.16	74	67
2XY	2 C X16	6	0.70	0.30	1.80	14	450	1.15	1.47	0.080	0.18	94	85
2XY	2 C X25	6	0.90	0.30	2.00	18	700	0.727	0.931	0.080	0.2	120	125
2XY	2 C X35	6	0.90	0.30	2.00	19	900	0.524	0.671	0.080	0.23	145	155
2XY	2 C X50	6	1.00	0.30	2.00	21	1150	0.387	0.495	0.078	0.24	170	190
2XY	2 C X70	12	1.10	0.30	2.00	24	1550	0.268	0.343	0.077	0.26	210	235
2XY	2 C X95	15	1.10	0.40	2.20	27	2100	0.193	0.248	0.074	0.29	250	290
2XY	2 C X120	18	1.20	0.40	2.20	29	2550	0.153	0.197	0.072	0.29	285	330
2XY	2 C X150	18	1.40	0.40	2.20	31	3100	0.1240	0.159	0.072	0.29	315	375
2XY	2 C X185	30	1.60	0.50	2.40	35	3850	0.0991	0.127	0.072	0.29	355	435
2XY	2 C X240	34	1.70	0.50	2.60	40	5000	0.0754	0.0976	0.072	0.31	410	510
2XY	2 C X300	34	1.80	0.60	2.80	43	6200	0.0601	0.0778	0.071	0.33	460	590
2XY	2 CX 400	53	2.00	0.60	3.00	48	7850	0.047	0.0618	0.070	0.33	520	670
2XY	2 C X500	53	2.20	0.70	3.40	54	4200	0.0366	0.0489	0.070	0.34	580	750
2XY	2 C X630	53	2.40	0.70	3.80	59	5200	0.0648	0.0391	0.069	0.36	680	875