

3.5 CORE COPPER XLPE ARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation		Min Thickness of inner sheath (MM)	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 (Ohm/Km)	Max A.C Resistance 90 C (Ohm/Km)	Approx Reactance at 50 Hz (Ohm/Km)	Approx capacitance (mFd/Km)	CURRENT RATING	
			(MM)	(MM)		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/2XFY	3.5 X 25/16	6/6	0.90	0.70	0.30	1.6	4 X0.80	1.40	1.40	22	23	1550	1350	0.727	0.931	0.080	0.20	120	125
2XWY/2XFY	3.5 X35/16	6/6	0.90	0.70	0.30	1.6	4 X0.80	1.40	1.40	24	25	1900	1650	0.524	0.671	0.08	0.23	145	155
2XWY/2XFY	3.5 X50/25	6/6	1.00	0.90	0.30	1.6	4 X0.80	1.4	1.40	27	28	2400	2150	0.387	0.495	0.078	0.24	170	190
2XWY/2XFY	3.5 X70/35	12/6	1.10	0.90	0.40	2.0	4 X0.80	1.56	1.56	31	32	3400	2850	0.268	0.343	0.077	0.26	210	235
2XWY/2XFY	3.5 X95/50	15/6	1.10	1.00	0.40	2.0	4 X0.80	1.56	1.56	34	36	4350	3800	0.193	0.248	0.074	0.29	250	290
2XWY/2XFY	3.5 X120/70	18/12	1.20	1.10	0.40	2.0	4 X0.80	1.72	1.72	38	40	5400	4750	0.153	0.197	0.072	0.29	285	330
2XWY/2XFY	3.5 X150/70	18/12	1.40	1.10	0.50	2.0	4 X0.80	1.72	1.88	41	44	6400	5600	0.124	0.159	0.072	0.29	315	375
2XWY/2XFY	3.5 X185/95	30/15	1.60	1.10	0.50	2.5	4 X0.80	1.88	2.04	46	50	8200	7000	0.0991	0.127	0.072	0.29	355	435
2XWY/2XFY	3.5 X240/120	34/18	1.70	1.20	0.60	2.5	4 X0.80	2.04	2.2	50	55	10200	8900	0.0754	0.0976	0.072	0.31	410	510
2XWY/2XFY	3.5 X300/150	34/18	1.80	1.40	0.60	2.5	4 X0.80	2.20	2.36	55	58	12400	11000	0.0601	0.0778	0.071	0.33	460	590
2XWY/2XFY	3.5 X400/185	53/30	2.00	1.60	0.70	3.15	4 X0.80	2.52	2.68	62	66	16050	13850	0.047	0.0618	0.070	0.33	520	670
2XWY/2XFY	3.5 X500/240	53/30	2.20	1.70	0.70	3.15	4 X0.80	2.68	2.84	72	77	20250	17650	0.0366	0.0489	0.070	0.34	580	750
2XWY/2XFY	3.5 X600/300	53/30	2.40	1.80	0.70	4	4 X0.80	3.00	3.00	80	86	26300	22400	0.0283	0.0648	0.069	0.36	680	875

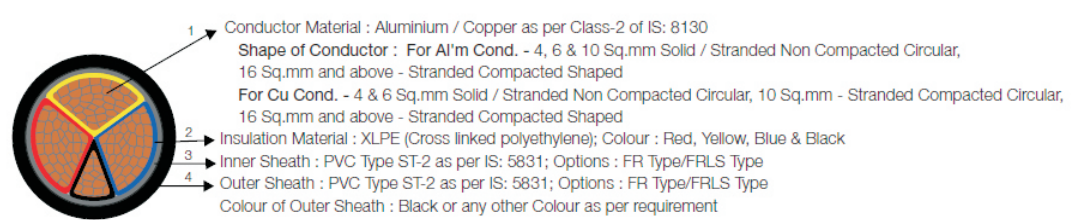
ARMoured CABLES

Cross-sectional view



UNARMoured CABLES

Cross-sectional view



3.5 CORE COPPER XLPE UNARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation		Min Thickness of inner sheath (MM)	Nominal Thickness of pvc outer sheath (MM)	Overall Diameter (Approx) (MM)	Max D.C. Resistance at 20 Strip (MM)	Max A.C Resistance At 90C (Ohm/Km)	Approx Reactance at 50 Hz (mFd/Km)	Approx capacitance (mFd/Km)	CURRENT RATING	
			(MM)	(MM)								Direct in Ground (Amps)	In Air (Amps)
2xy	3.5 X 25/16	6/6	0.90	0.70	0.3	2.0	21.0	0.727	0.931	0.080	0.20	120	125
2xy	3.5 X35/16	6/6	0.90	0.70	0.3	2.0	24.0	0.524	0.671	0.08	0.23	145	155
2xy	3.5 X50/25	6/6	1.00	0.90	0.3	2.0	26	0.387	0.495	0.078	0.24	170	190
2xy	3.5 X70/35	12/6	1.10	0.90	0.4	2.2	30.0	0.268	0.343	0.077	0.26	210	235
2xy	3.5 X95/50	15/6	1.10	1.00	0.4	2.2	34.0	0.193	0.248	0.074	0.29	250	290
2xy	3.5 X120/70	18/12	1.20	1.10	0.4	2.2	37	0.153	0.197	0.072	0.29	285	330
2xy	3.5 X150/70	18/12	1.40	1.10	0.5	2.4	41.0	0.124	0.159	0.072	0.29	315	375
2xy	3.5 X185/70	30/15	1.60	1.10	0.5	2.6	46	0.0991	0.127	0.072	0.29	355	435
2xy	3.5 X240/120	34/18	1.70	1.20	0.6	2.8	50	0.0754	0.0976	0.072	0.31	410	510
2xy	3.5 X300/150	34/18	1.80	1.40	0.6	3.0	55.0	0.0601	0.0778	0.071	0.33	460	590
2xy	3.5 X400/185	53/30	2.00	1.60	0.7	3.4	62.0	0.047	0.0618	0.070	0.33	520	670
2xy	3.5 X500/240	53/30	2.20	1.70	0.7	3.6	72	0.0366	0.0489	0.070	0.34	580	750
2xy	3.5 X600/300	53/30	2.40	1.80	0.7	4	80	0.0283	0.0648	0.069	0.36	680	875