

## 3.5 CORE COPPER XLPE ARMoured POWER CABLES

Type	No. of Cores & cross sectional area mm <sup>2</sup>	Min. No. of wires	Thickness of XLPE Insulation (Nom) mm	Min. Thickness of PVC inner sheath mm	Nominal Dimensions of Armour		Min. Thickness of PVC Outer Sheath		Overall Diameter (Approx)		Approx. Net Wt. of Cable		Max. DC Resistance at 20°C Ohm/Km	Max. AC Resistance at 90°C Ohm/Km	Approx. Reactance at 50 Hz Ohm/Km	Approx. Capacitance mFd/Km	Current Ratings	
					Strip mm	Wire mm	Wire mm	Strip mm	Wire mm	Strip mm	Wire Kg/Km	Strip Kg/Km					Direct in Ground Amps	In Air Amps
2XWY/2XFY	3.5CX25/16	6/6	0.9/0.7	0.3	4x0.8	1.60	1.40	1.40	23.8	22.2	1556	1316	0.727	0.930	0.080	0.20	119	108
2XWY/2XFY	3.5CX35/16	6/6	0.9/0.7	0.3	4x0.8	1.60	1.40	1.40	25.5	23.9	1887	1626	0.524	0.671	0.080	0.23	144	132
2XWY/2XFY	3.5CX50/25	6/6	1.0/0.9	0.3	4x0.8	1.60	1.56	1.40	29.0	27.1	2651	2137	0.387	0.495	0.078	0.24	174	162
2XWY/2XFY	3.5CX70/35	12/6	1.1/0.9	0.4	4x0.8	2.00	1.56	1.56	34.0	31.6	3479	2946	0.268	0.343	0.077	0.26	210	198
2XWY/2XFY	3.5CX95/50	15/6	1.1/1.0	0.4	4x0.8	2.00	1.56	1.56	37.6	35.2	4476	3874	0.193	0.247	0.074	0.29	252	240
2XWY/2XFY	3.5CX120/70	18/12	1.2/1.1	0.4	4x0.8	2.00	1.72	1.72	40.2	37.8	5487	4844	0.153	0.196	0.072	0.29	288	276
2XWY/2XFY	3.5CX150/70	18/15	1.4/1.1	0.5	4x0.8	2.00	1.88	1.72	45.2	42.4	6523	5768	0.124	0.159	0.072	0.29	324	318
2XWY/2XFY	3.5CX185/95	30/15	1.6/1.1	0.5	4x0.8	2.50	2.04	1.88	49.7	46.0	8325	7164	0.0991	0.127	0.072	0.29	360	366
2XWY/2XFY	3.5CX240/120	34/18	1.7/1.2	0.6	4x0.8	2.50	2.20	2.04	55.4	51.7	10510	9193	0.0754	0.0965	0.072	0.31	414	426
2XWY/2XFY	3.5CX300/150	34/18	1.8/1.4	0.6	4x0.8	2.50	2.36	2.20	59.3	55.6	12705	11282	0.0601	0.0769	0.071	0.33	462	480
2XWY/2XFY	3.5CX400/185	53/30	2.0/1.6	0.7	4x0.8	3.15	2.68	2.52	69.2	64.1	16653	14342	0.0470	0.0602	0.070	0.33	510	546

## 3.5 CORE COPPER XLPE UNARMoured POWER CABLES

Type	No. of cores & cross sectional area mm <sup>2</sup>	Min. No. of wires	Thickness of XLPE Insulation (Nom.) mm	Min. Thickness of PVC inner sheath mm	Nominal Thickness of PVC Outer Sheath mm	Overall Diameter (Approx) mm	Approx. Net Wt. of Cable Kg/Km	Max. DC Resistance at 20° C Ohm/Km	Max. AC Resistance at 90° C Ohm/Km	Approx. Reactance at 50 HZ Ohm/Km	Approx. Capacitance mFd/Km	CURRENT RATINGS	
												Direct in Ground Amps	In Air Amps
2XY	3.5C X 25/16	6/6	0.9/0.7	0.3	2.00	22.4	1143	0.727	0.930	0.080	0.20	119	108
2XY	3.5C X 35/16	6/6	0.9/0.7	0.3	2.00	24.1	1436	0.524	0.671	0.080	0.23	144	132
2XY	3.5C X 50/25	6/6	1.0/0.9	0.3	2.00	27.3	1914	0.387	0.495	0.078	0.24	174	162
2XY	3.5C X 70/35	12/6	1.1/0.9	0.4	2.20	31.9	2688	0.268	0.343	0.077	0.26	210	198
2XY	3.5C X 95/50	15/6	1.1/1.0	0.4	2.20	35.5	3579	0.193	0.247	0.074	0.29	252	240
2XY	3.5C X 120/70	18/12	1.2/1.1	0.4	2.20	37.8	4498	0.153	0.196	0.072	0.29	288	276
2XY	3.5C X 150/70	18/15	1.4/1.1	0.5	2.40	42.8	5416	0.124	0.159	0.072	0.29	324	318
2XY	3.5C X 185/95	30/15	1.6/1.1	0.5	2.60	46.4	6791	0.0991	0.127	0.072	0.29	360	366
2XY	3.5C X 240/120	34/18	1.7/1.2	0.6	2.80	52.4	8812	0.0754	0.0965	0.072	0.31	414	426
2XY	3.5C X 300/150	34/18	1.8/1.4	0.6	3.00	56.4	10881	0.0601	0.0769	0.071	0.33	462	480
2XY	3.5C X 400/185	53/30	2.0/1.6	0.7	3.40	65.3	13914	0.0470	0.0602	0.070	0.33	510	546