



3.5 CORE COPPER XLPE ARMoured POWER CABLES

No. of Cores & Cross sectional area	Thicknes of XLPE Insulation (Nom)	Min. Thickness Of PVC inner sheath	Nominal Dimensions of Armour		Min.Thickness of PVC Outer Sheath		Overall Diameter (Approx)		Approx. Net Wt. of Cable		Max. DC Resistance at 20°C	Max. AC Resistance at 90°C	Approx. Reactance at 50 Hz	Approx. Capacitance	Current Ratings	
			Strip mm	Wire mm	Wire mm	Strip mm	Wire mm	Strip mm	Wire Kg/Km	Strip Kg/Km					Ohm/Km	Ohm/Km
mm2	mm	Mm														
3.5CX25/16	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
3.5CX35/16	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
3.5CX50/25	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
3.5CX70/35	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
3.5CX95/50	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
3.5CX120/70	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
3.5CX150/70	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
3.5CX185/95	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
3.5CX240/120	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
3.5CX300/150	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
3.5CX400/185	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

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3.5 CORE COPPER XLPE UNARMoured POWER CABLE

No. of Cores & Cross sectional area mm ²	Thickness of Insulation (Nom) mm	Min. Thickness of inner sheath mm	Min. Thickness of outer sheath mm	Overall Diameter (Approx) mm	Net Wt. of Cable (Approx) 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
3.5C X 25/16	0.9/0.7	0.3	2.00	22.4	1143	0.727	0.930	0.080	0.20	119	108
3.5C X 35/16	0.9/0.7	0.3	2.00	24.1	1436	0.524	0.671	0.080	0.23	144	132
3.5C X 50/25	1.0/0.9	0.3	2.00	27.3	1914	0.387	0.495	0.078	0.24	174	162
3.5C X 70/35	1.1/0.9	0.4	2.20	31.9	2688	0.268	0.343	0.077	0.26	210	198
3.5C X 95/50	1.1/1.0	0.4	2.20	35.5	3579	0.193	0.247	0.074	0.29	252	240
3.5C X 120/70	1.2/1.1	0.4	2.20	37.8	4498	0.153	0.196	0.072	0.29	288	276
3.5C X 150/70	1.4/1.1	0.5	2.40	42.8	5416	0.124	0.159	0.072	0.29	324	318
3.5C X 185/95	1.6/1.1	0.5	2.60	46.4	6791	0.0991	0.127	0.072	0.29	360	366
3.5C X 240/120	1.7/1.2	0.6	2.80	52.4	8812	0.0754	0.0965	0.072	0.31	414	426
3.5C X 300/150	1.8/1.4	0.6	3.00	56.4	10881	0.0601	0.0769	0.071	0.33	462	480
3.5C X 400/185	2.0/1.6	0.7	3.40	65.3	13914	0.0470	0.0602	0.070	0.33	510	546

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