



3.5 CORE COPPER PVC ARMoured POWER CABLES

No. of Cores & Cross sectional Area mm ²	Thicknes 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	Max. AC Resistance at 70°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	Ohm/Km	mFd/Km	Direct in Ground Amps	In Air Amps
3.5C X 25/16	1.2/1.0	0.3	4x0.8	1.60	1.40	1.40	23.8	25.4	1438	1685	0.727	0.87	0.097	0.86	99	90
3.5C X 35/16	1.2/1.0	0.3	4x0.8	1.60	1.40	1.40	24.8	26.4	1741	2004	0.524	0.627	0.097	0.98	120	110
3.5C X 50/25	1.4/1.2	0.3	4x0.8	1.60	1.56	1.56	28.4	30.0	2313	2606	0.387	0.463	0.094	1.02	145	135
3.5C X 70/35	1.4/1.2	0.4	4x0.8	2.00	1.56	1.56	32.5	34.9	3113	3657	0.268	0.321	0.090	1.18	175	165
3.5C X 95/50	1.6/1.4	0.4	4x0.8	2.00	1.56	1.72	36.2	38.9	4115	4756	0.193	0.231	0.090	1.20	210	200
3.5C X 120/70	1.6/1.4	0.5	4x0.8	2.00	1.72	1.88	39.3	42.1	5125	5827	0.153	0.184	0.087	1.31	240	230
3.5C X 150/70	1.8/1.4	0.5	4x0.8	2.00	1.88	1.88	44.0	46.4	6095	6825	0.124	0.149	0.087	1.31	270	265
3.5C X 185/95	2.0/1.6	0.5	4x0.8	2.50	2.04	2.04	48.8	52.2	7595	8799	0.0991	0.120	0.087	1.31	300	305
3.5C X 240/120	2.2/1.6	0.6	4x0.8	2.50	2.20	2.36	55.2	58.9	9738	11128	0.0754	0.0912	0.087	1.34	345	355
3.5C X 300/150	2.4/1.8	0.6	4x0.8	3.15	2.36	2.52	59.7	64.7	11945	14064	0.0601	0.0739	0.086	1.41	385	400
3.5C X 400/185	2.6/2.0	0.7	4x0.8	3.15	2.68	2.68	68.6	73.3	15139	17523	0.0470	0.0592	0.086	1.45	425	455

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3.5 CORE COPPER PVC UNARMoured POWER CABLES

No. of Cores & Cross sectional Area sqmm	Thickness of XLPE Insulation (Nom.) mm	Min. Thickness Of PVC inner sheath mm	Nomial Thickness of PVC Outer Sheath mm	Overall Diameter (Approx) mm	Net Wt. of Cable (Approx) Kg/Km	Max. AC Resistance (Approx) Ohm/Km	Max. AC Resistance at 70°C Ohm/Km	Approx. Reactance at 50 Hz Ohm/Km	Approx. Capacitance mFd/Km	CURRENT RATINGS		
										Direct in Ground Amps	In Duct Amps	In Air Amps
3.5 C X 25/16	1.2/1.0	0.30	2.00	24.00	1248	0.73	0.87	0.097	0.86	99	81	90
3.5 C X 35/16	1.2/1.0	0.30	2.00	25.00	1541	0.524	0.627	0.097	0.98	120	99	110
3.5 C X 50/25	1.4/1.2	0.30	2.00	28.30	2058	0.387	0.463	0.094	1.02	145	125	135
3.5 C X 70/35	1.4/1.2	0.40	2.20	32.80	2845	0.268	0.321	0.090	1.18	175	150	165
3.5 C X 95/50	1.6/1.4	0.40	2.20	31.50	3810	0.193	0.231	0.090	1.20	210	175	200
3.5 C X 120/70	1.6/1.4	0.50	2.40	39.70	4804	0.153	0.184	0.087	1.31	240	195	230
3.5 C X 150/70	1.8/1.4	0.50	2.40	44.00	5699	0.124	0.149	0.087	1.31	270	225	265
3.5 C X 185/95	2.0/1.6	0.50	2.60	48.90	7161	0.099	0.1200	0.087	1.31	300	255	305
3.5 C X 240/120	2.2/1.6	0.60	3.00	56.00	9340	0.075	0.0912	0.087	1.34	345	295	355
3.5 C X 300/150	2.4/1.8	0.60	3.20	60.60	11521	0.060	0.0739	0.086	1.41	385	335	400
3.5 C X 400/185	2.6/ 2.0	0.70	3.40	69.40	14651	0.0470	0.0592	0.086	1.45	425	360	455

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