

3 CORE COPPER PVC ARMoured & UNARMoured POWER CABLES

No. of cores & cross sectional area	Min. No. of Wires	Thickness of PVC insulation (Nom.)	Min. Thickness of PVC inner sheath mm	ARMoured								UNARMoured			Max. D.C. Resistance at 20	Max. A.C. Resistance at 70	Approx. Reactance at 50 Hz	Approx. Capacitance	CURRENT RATINGS						
				Nominal Dimensions of Armour		Min. Thickness of PVC Outer Sheath		Overall Diameter (Approx.)		Approx. Net Wt. of Cable		Nom. Thickness of Outer Sheath mm	Overall Diameter (Approx) mm	Net Wt. of Cable (Approx) Kg/Km					Ohms/Km	Ohms/Km	Ohms/Km	mFd/Km	Direct in Ground Amps	In Air Amps	In Duct Amps
				Strip mm	Wire mm	Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)														
				Strip mm	Wire mm	Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)														
3C X 1.5	1	0.80	0.3	—	1.4	—	1.24	—	14.0	—	442	1.80	11.00	218	12.1	14.5	0.126	0.14	21	17	17				
3C X 2.5	1	0.90	0.3	—	1.4	—	1.24	—	15.0	—	542	1.80	12.00	284	7.41	8.87	0.119	0.15	27	24	24				
3C X 4	1	1.00	0.3	—	1.4	—	1.24	—	16.5	—	663	1.80	13.50	372	4.61	5.52	0.116	0.41	36	30	30				
3C X 6	1	1.00	0.3	—	1.4	—	1.24	—	17.5	—	789	1.80	14.40	470	3.08	3.69	0.110	0.47	45	39	38				
3C X 10	6	1.00	0.3	—	1.4	—	1.40	—	19.5	—	1017	1.80	15.60	629	1.83	2.19	0.100	0.56	60	57	50				
3C X 16	6	1.00	0.3	4x0.8	1.6	1.40	1.40	18.6	20.2	859	1057	1.80	18.40	705	1.15	1.38	0.097	0.76	77	66	64				
3C X 25	6	1.20	0.3	4x0.8	1.6	1.40	1.40	21.3	22.9	1210	1431	2.00	21.50	1046	0.727	0.87	0.097	0.86	99	90	81				
3C X 35	6	1.20	0.3	4x0.8	1.6	1.40	1.40	23.1	24.7	1532	1773	2.00	23.30	1350	0.524	0.627	0.097	0.98	120	110	99				
3C X 50	6	1.40	0.3	4x0.8	1.6	1.56	1.56	26.6	28.2	2016	2305	2.00	26.50	1783	0.387	0.463	0.094	1.02	145	135	125				
3C X 70	12	1.40	0.4	4x0.8	2.0	1.56	1.56	29.6	32.0	2684	3173	2.20	29.90	2446	0.268	0.321	0.090	1.18	175	165	150				
3C X 95	15	1.60	0.4	4x0.8	2.0	1.56	1.72	33.5	36.2	3564	4169	2.20	33.80	3286	0.193	0.231	0.090	1.20	210	200	175				
3C X 120	18	1.60	0.4	4x0.8	2.0	1.72	1.72	37.0	39.4	4371	5001	2.20	37.00	4034	0.153	0.184	0.087	1.31	240	230	195				
3C X 150	18	1.80	0.5	4x0.8	2.0	1.88	1.88	40.1	42.4	5309	5974	2.40	40.10	4954	0.124	0.149	0.087	1.31	270	265	225				
3C X 185	30	2.00	0.50	4x0.8	2.5	1.88	2.04	44.2	47.9	6502	7648	2.60	44.60	6145	0.0991	0.12	0.087	1.31	300	305	255				
3C X 240	34	2.2	0.6	4x0.8	2.5	2.20	2.20	51.3	53.7	8422	9648	2.80	50.70	8018	0.0754	0.0912	0.087	1.34	345	355	295				
3C X 300	34	2.4	0.6	4x0.8	2.5	2.36	2.36	55.0	58.4	10356	11710	3.00	55.50	9920	0.0601	0.0739	0.086	1.41	385	400	335				
3C X 400	53	2.6	0.7	4x0.8	3.2	2.52	2.68	62.6	67.6	13107	15315	3.40	63.80	12717	0.047	0.0592	0.086	1.45	425	455	360				



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