

3.5 CORE COPPER PVC ARMoured POWER CABLES

Type	No. of Cores & cross sectional area mm ²	Min. No. of wires	Thickness of PVC 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 70°C Ohm/Km	Approx. Reactance at 50 Hz Ohm/Km	Approx. Capacitance mFd/Km	Current Ratings	
					Strip mm	Wire mm	Strip mm	Wire mm	Strip mm	Wire mm	Strip Kg/Km	Wire Kg/Km					Direct in Ground Amps	In Air Amps
YWY/YFY	3.5C X 25/16	6/6	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
YWY/YFY	3.5C X 35/16	6/6	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
YWY/YFY	3.5C X 50/25	6/6	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
YWY/YFY	3.5C X 70/35	12/6	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
YWY/YFY	3.5C X 95/50	15/6	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
YWY/YFY	3.5C X 120/70	18/12	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
YWY/YFY	3.5C X 150/70	18/12	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
YWY/YFY	3.5C X 185/95	30/15	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
YWY/YFY	3.5C X 240/120	34/18	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
YWY/YFY	3.5C X 300/150	34/18	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
YWY/YFY	3.5C X 400/185	53/30	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

3.5 CORE COPPER PVC UNARMoured POWER CABLES

Type	No. of cores & cross sectional area sqmm	Min. No. of wires	Thickness of PVC Insulation (Nom.) mm	Minimum Thickness of PVC Inner Sheath mm	Nominal Thickness of Outer Sheath mm	Overall Diameter (Approx) mm	Net Wt. of Cable (Approx) Kg/Km	Max. AC Resistance (Approx) Ohm/Km	Max. DC 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
YY	3.5 C X 25/16	6/6	1.2/1.0	0.30	2.00	24.00	1248	0.73	0.87	0.097	0.86	99	81	90
YY	3.5 C X 35/16	6/6	1.2/1.0	0.30	2.00	25.00	1541	0.524	0.627	0.097	0.98	120	99	110
YY	3.5 C X 50/25	6/6	1.4/1.2	0.30	2.00	28.30	2058	0.387	0.463	0.094	1.02	145	125	135
YY	3.5 C X 70/35	12/6	1.4/1.2	0.40	2.20	32.80	2845	0.268	0.321	0.090	1.18	175	150	165
YY	3.5 C X 95/50	15/6	1.6/1.4	0.40	2.20	31.50	3810	0.193	0.231	0.090	1.20	210	175	200
YY	3.5 C X 120/70	18/12	1.6/1.4	0.50	2.40	39.70	4804	0.153	0.184	0.087	1.31	240	195	230
YY	3.5 C X 150/70	18/12	1.8/1.4	0.50	2.40	44.00	5699	0.124	0.149	0.087	1.31	270	225	265
YY	3.5 C X 185/95	30/15	2.0/1.6	0.50	2.60	48.90	7161	0.099	0.1200	0.087	1.31	300	255	305
YY	3.5 C X 240/120	34/18	2.2/1.6	0.60	3.00	56.00	9340	0.075	0.0912	0.087	1.34	345	295	355
YY	3.5 C X 300/150	34/18	2.4/1.8	0.60	3.20	60.60	11521	0.060	0.0739	0.086	1.41	385	335	400
YY	3.5 C X 400/185	53/30	2.6/ 2.0	0.70	3.40	69.40	14651	0.0470	0.0592	0.086	1.45	425	360	455