

AVOCAB

WIRES & CABLES

3.5 CORE COPPER PVC ARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation		Min Thickness of inner sheath (MM)	Nominal Dimensions of armour		Min.Thickness of pvc outer sheath		Overall Diameter (Approx) (nom)		Approx.Net Wt. of Cable		Max D.C. Resistance at 20 c Ohm/Km	Max A.C Resistance at 70 Ohm/Km	Approx Reactance at 50 Hz Ohm/Km	Approx capacitance mFd/Km	CURRENT RATING	
			(MM)	(MM)		Wire	Strip	wire	strip	Wire	Strip	Wire	Strip					Direct in Ground	In Air
			(MM)	(MM)		(MM)	(MM)	MM	MM	Kg/Km	Kg/Km	Ohm/Km	Ohm/Km					Amps	Amps
YWY/YFY	3.5 X 25/16	6/6	1.20	1.00	0.30	1.6	4 x0.80	1.40	1.40	25	23	1150	1450	0.727	0.87	0.083	0.42	99	90
YWY/YFY	3.5 X 35/16	6/6	1.20	1.00	0.30	1.6	4 x0.80	1.40	1.40	27	25	1350	1800	0.524	0.63	0.082	0.48	120	110
YWY/YFY	3.5 X50/25	6/6	1.40	1.20	0.30	2.0	4 x0.80	1.56	1.56	30	29	1650	2350	0.387	0.46	0.082	0.49	145	135
YWY/YFY	3.5X 70/35	12/6	1.40	1.20	0.40	2.0	4 x0.80	1.56	1.56	34	32	2200	3100	0.268	0.32	0.076	0.56	175	165
YWY/YFY	3.5X95/50	15/6	1.60	1.40	0.40	2.0	4 x0.80	1.72	1.56	39	36	2800	4050	0.193	0.23	0.076	0.58	210	200
YWY/YFY	3.5X120/70	18/12	1.60	1.40	0.50	2.0	4 x0.80	1.88	1.72	42	40	3300	5050	0.153	0.18	0.075	0.63	240	230
YWY/YFY	3.5 X150/70	18/12	1.80	1.40	0.50	2.0	4 x0.80	1.88	1.88	46	44	3750	6000	0.124	0.15	0.074	0.63	270	265
YWY/YFY	3.5 X185/95	30/15	2.00	1.60	0.50	2.5	4 x0.80	2.04	2.04	51	48	4850	7400	0.099	0.12	0.074	0.64	300	305
YWY/YFY	3.5X240/120	34/18	2.20	1.60	0.60	2.5	4 x0.80	2.36	2.20	57	53	5850	9400	0.075	0.0912	0.073	0.67	345	355
YWY/YFY	3.5X300/150	30/15	2.40	1.80	0.60	3.15	4 x0.80	2.52	2.36	63	58	7600	11650	0.060	0.0733	0.073	0.68	385	400
YWY/YFY	3.5X400/185	53/30	2.60	2.00	0.70	3.15	4 x0.80	2.68	2.68	69	64	9000	14600	0.047	0.058	0.072	0.7	360	435

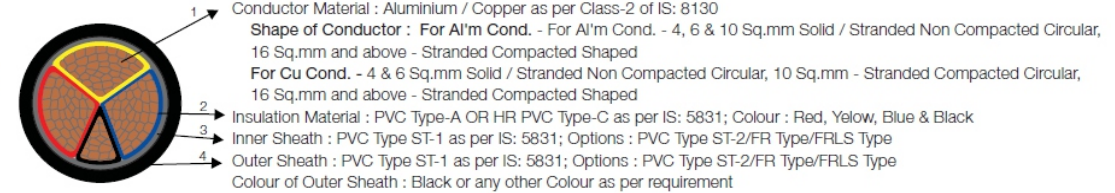
ARMoured CABLE

Cross-sectional view



UNARMoured CABLE

Cross-sectional view



3.5 CORE COPPER PVC UNARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation		Min Thickness of inner sheath (MM)	Min.Thickness of pvc outer sheath (MM)	Overall Diameter (Approx) (MM)	Net Wt. of cable (Approx) (Kg/Km)	Max.D.C Resistance at 20 C Ohms/Km	Max.A.C. Resistance at 70 C Ohms/Km	Approx Reactance at 50 Hz Ohms/Km	Approx capacitance mFd/Km	CURRENT RATING	
			(MM)	(MM)									Direct in Ground	In Air
YY	3.5 X 25/16	6/6	1.20	1.00	0.30	2.00	23	1250	0.727	0.87	0.083	0.42	94	96
YY	3.5 X 35/16	6/6	1.20	1.00	0.30	2.00	25	1550	0.524	0.63	0.082	0.48	113	117
YY	3.5 X50/25	6/6	1.40	1.20	0.30	2.00	28	2050	0.387	0.46	0.082	0.49	133	142
YY	3.5X 70/35	12/6	1.40	1.20	0.40	2.20	32	2800	0.268	0.32	0.076	0.56	194	179
YY	3.5X95/50	15/6	1.60	1.40	0.40	2.20	36	3700	0.193	0.23	0.076	0.58	196	221
YY	3.5X120/70	15/12	1.60	1.40	0.40	2.20	39	4700	0.153	0.18	0.075	0.63	223	257
YY	3.5 X150/70	15/12	1.80	1.40	0.50	2.40	43	5550	0.124	0.15	0.074	0.63	249	292
YY	3.5 X185/95	30/15	2.00	1.60	0.50	2.60	47	6900	0.099	0.12	0.074	0.64	282	337
YY	3.5X240/120	30/15	2.20	1.60	0.60	2.80	53	8950	0.075	0.0912	0.073	0.67	326	399
YY	3.5X300/150	30/15	2.40	1.80	0.60	3.00	58	11100	0.060	0.0733	0.073	0.68	367	455
YY	3.5X400/185	53/30	2.60	2.00	0.70	3.40	64	14000	0.047	0.058	0.072	0.7	418	530