



3.5 CORE ALUMINIUM PVC ARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation		Min Thickness of inner sheath	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	Max A.C Resistance at 70	Approx Reactance at 50 Hz	Approx capacitance	CURRENT RAATING			
			(MM)	(MM)		Wire	Strip	wire	strip	Wire	Strip	Wire	Strip					Kg/Km	Kg/Km	Direct in Ground	In Air
AYWY/AYFY	3.5 X 25/16	6/6	1.20	1.00	0.30	1.60	4 x0.80	1.40	1.4	25	23	1150	900	1.20	1.44	0.083	0.42	76	70		
AYWY/AYFY	3.5 X 35/16	6/6	1.20	1.00	0.30	1.60	4 x0.80	1.40	1.4	27	25	1350	1050	0.868	1.04	0.082	0.48	92	86		
AYWY/AYFY	3.5 X50/25	6/6	1.40	1.20	0.30	2.00	4 x0.80	1.56	1.56	30	29	1650	1350	0.641	0.77	0.082	0.49	110	105		
AYWY/AYFY	3.5X 70/35	12/6	1.40	1.20	0.40	2.00	4 x0.80	1.56	1.56	34.0	32.0	2200	1700	0.443	0.53	0.076	0.56	135	130		
AYWY/AYFY	3.5X95/50	15/6	1.60	1.40	0.40	2.00	4 x0.80	1.72	1.56	39.0	36.0	2800	2150	0.320	0.39	0.076	0.58	165	155		
AYWY/AYFY	3.5X120/70	15/12	1.60	1.40	0.50	2.00	4 x0.80	1.88	1.72	42.0	40.0	3300	2550	0.253	0.31	0.075	0.63	185	180		
AYWY/AYFY	3.5 X150/70	15/12	1.80	1.40	0.50	2.00	4 x0.80	1.88	1.88	46.0	44.0	3750	3000	0.206	0.25	0.074	0.63	210	205		
AYWY/AYFY	3.5 X185/95	30/15	2.00	1.60	0.50	2.50	4 x0.80	2.04	2.04	51.0	48	4850	3650	0.164	0.20	0.074	0.64	235	240		
AYWY/AYFY	3.5X240/120	30/15	2.20	1.60	0.60	2.50	4 x0.80	2.36	2.20	57.0	53	5850	4500	0.125	0.15	0.073	0.67	275	280		
AYWY/AYFY	3.5X300/150	30/15	2.40	1.80	0.60	3.15	4 x0.80	2.52	2.36	63.0	58.0	7600	5450	0.100	0.12	0.073	0.68	305	315		
AYWY/AYFY	3.5X400/185	53/30	2.60	2.00	0.70	3.15	4 x0.80	2.68	2.68	69.0	64.0	9000	6750	0.0778	0.10	0.072	0.7	335	375		

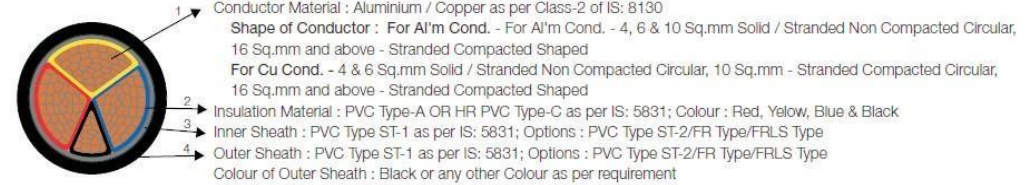
ARMoured CABLES

Cross-sectional view



UNARMoured CABLES

Cross-sectional view



3.5 CORE ALUMINIUM PVC UNARMoured POWER CABLES

TYPE	No of cores & cross sectional area	Min No of Wires	Thickness of xlpe insulation		Min Thickness of inner sheath	Min.Thickness of pvc outer sheath	Overall Diameter (Approx)	Net Wt. of cable (Approx)	Max.D.C Resistance at 20 C	Max.A.C. Resistance at 70 C	Approx Reactance at 50 Hz	Approx capacitance	CURRENT RATING	
			(MM)	(MM)									Direct in Ground	In Air
		(MIM)	(MM)	(MM)	(MM)	(MM)	(MM)	(Kg/Km)	Ohms/Km	Ohms/Km	Ohms/Km	mFd/Km	Amps	Amps
AYY	3.5 X 25/16	6/6	1.2	1.00	0.30	2.00	23	1250	1.20	1.44	0.083	0.42	76	70
AYY	3.5 X 35/16	6/6	1.2	1.00	0.30	2.00	25	1550	0.868	1.04	0.082	0.48	92	86
AYY	3.5 X50/25	6/6	1.4	1.20	0.30	2.00	28	2050	0.641	0.77	0.082	0.49	110	105
AYY	3.5X 70/35	12/6	1.4	1.20	0.40	2.20	32	2800	0.443	0.53	0.076	0.56	135	130
AYY	3.5X95/50	15/6	1.6	1.40	0.40	2.20	36	3700	0.320	0.39	0.076	0.58	165	155
AYY	3.5X120/70	15/12	1.6	1.40	0.40	2.20	39	4700	0.253	0.31	0.075	0.63	185	180
AYY	3.5 X150/70	15/12	1.8	1.40	0.50	2.40	43	5550	0.206	0.25	0.074	0.63	210	205
AYY	3.5 X185/95	30/15	2.0	1.60	0.50	2.60	47	6900	0.164	0.20	0.074	0.64	235	240
AYY	3.5X240/120	30/15	2.2	1.60	0.60	2.80	53	8950	0.125	0.15	0.073	0.67	275	280
AYY	3.5X300/150	30/15	2.4	1.80	0.60	3.00	58	11100	0.100	0.12	0.073	0.68	305	315
AYY	3.5X400/185	53/30	2.6	2.00	0.70	3.40	64	14000	0.0778	0.0961	0.072	0.70	335	375