

# AVOCAB

## WIRES & CABLES

### 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 (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	Max A.C Resistance at 70	Approx Reactance at 50 Hz	Approx capacitance	CURRENT RAATING	
			(MM)	(MM)		(MM)	(MM)	(MM)	(MM)	Kg/Km	Kg/Km	Amps	Amps						
																		Wire	Strip
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

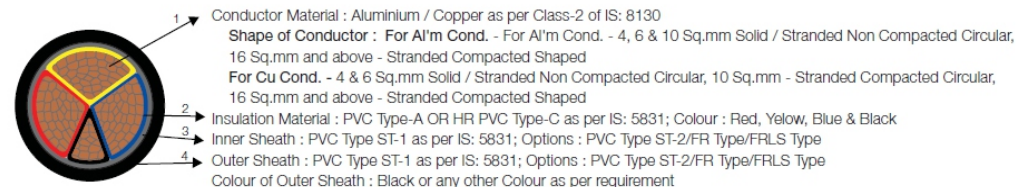
#### ARMoured CABLES

##### 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 (MM)	Min.Thickness of pvc outer sheath (MM)	Overall Daimeter (Approx) (MM)	Net Wt. of cable (Approx) (Kg/Km)	Max.D.C Resistance at 20 C	Max.A.C. Resistance at 70 C	Approx Reactance at 50 Hz	Approx capa citance	CURRENT RATING	
			(MM)	(MM)									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