

AAA CONDUCTOR

Table 4 : Construction for All Aluminium Alloy Conductor as per IS:398(Part IV)

No. of wire in Conductor	Construction	Lay Ratio for each Layer				
		3 Wire	6 Wire	12 Wire	18 Wire	24 Wire
3	3	10 to 14	-	-	-	-
7	1 + 6	-	10 to 14	-	-	-
19	1 + 6 + 12	-	10 to 16	10 to 14	-	-
37	1 + 6 + 12 + 18	-	10 to 17	10 to 16	10 to 14	-
61	1 + 6 + 12 + 18 + 24	-	10 to 17	10 to 16	10 to 15	10 to 14

Table 5 : Basic Data for AAAC Conductor As per IS : 398 (Part IV)

AAAC Code Word	Actual Area	Stranding and Wire Diameter		Overall Diameter (Approx)	Mass (Approx)	Resistance at 20°C (Max)	Ultimate Breaking Load
	(Sq.mm)	No.	Dia. (mm)	(mm)	Kg/Km	Ohm/Km	KN
MOIE	15	3	2.50	5.39	40.15	2.3040	4.33
SQUIRREL	22	7	2.00	6.00	60.16	1.5410	6.45
WEASEL	34	7	2.50	7.50	94.00	0.9900	10.11
RABBIT	55	7	3.15	9.45	149.20	0.6210	16.03
RACCOON	80	7	3.81	11.43	218.26	0.4250	23.41
DOG	100	7	4.26	12.78	272.86	0.3390	29.26
DOG (UP)	125	19	2.89	14.45	342.51	0.2735	36.64
COYOTE	148	19	3.15	15.75	406.91	0.2290	43.50
WOLF	173	19	3.40	17.00	474.02	0.1969	50.54
WOLF (UP)	200	19	3.66	18.30	549.40	0.1710	58.66
PANTHER	232	19	3.94	19.70	636.67	0.1471	68.05
PANTHER (UP)	288	37	3.15	22.05	794.05	0.1182	84.71
PANTHER (UPP)	346	37	3.45	24.15	952.56	0.0984	101.58
KUNDAH	400	37	3.71	25.97	1101.63	0.0829	117.40
ZEBRA	465	37	4.00	28.00	1280.50	0.0734	136.38
ZEBRA (UP)	525	61	3.31	29.79	1448.39	0.0651	146.03
MOOSE	570	61	3.45	31.05	1573.71	0.0598	158.66
MORCULLA	604	61	3.55	31.95	1666.00	0.0568	167.99
MOOSE (UP)	642	61	3.66	32.94	1771.36	0.0534	178.43
MORCULLA (UP)	695	61	3.81	34.29	1919.13	0.0492	193.25
BERSIMIS	767	61	4.00	36.00	2115.54	0.0446	213.01

