

DETAILS OF TECHNICAL PARTICULARS AS PER IS : 398 (Part - IV) / 1994

Sl. No.	Particulars	55 mm ² AAAC	80 mm ² AAAC	100 mm ² AAAC
1	2	3	4	5
1	Nominal aluminium area of conductor in mm ²	55	80	100
2	No. of Strands.	7	7	7
3	Wire diameter in mm :-			
	(a) Nominal	3.15	3.81	4.26
	Minimum	3.12	3.77	4.22
	Maximum	3.18	3.85	4.3
	(b) Approximate overall dia. Of Conductor.	9.45	11.43	12.78
4	Crss-sectional area of :-			
	a) Nominal diameter wire in sqmm.	7.793	11.4	14.25
	b) Standard conductor in sqmm.	55	80	100
5	Approximate mass of Individual :-			
	a) Wire in Kg./Km.	21.04	30.78	38.48
	b) Conductor.	149.2	218.26	272.86
6	Minimum breaking load in KN :-			
	a) Individual wire.	2.29	3.34	4.4
	b) Conductor.	16.03	23.41	29.26
7	Approximate resistance at 20 ⁰ in ohm/Km. :-			
	a) Individual wire maximum.	4.29	2.938	2.345
	b) Conductor maximum.	0.621	0.425	0.339
	c) Conductor standard.			
8	weight of conductor in Kg/Km	149.2	218.27	272.85

Lay Ratio : The lay ratio of the different layers shall be within the limits given

Sl. No.	No. of Wire in conductor.	Lay Ratio of wire layer	
		Maximum	Minimum
1	6+1	14	10
2	12		

Longer length shall be acceptable. Short lengths not less than 50 % of the normal length shall be acceptable to the maximum extent of 10 % of the quantity ordered. The gross of packing for the above conductors shall not exceed by more than 10 % of the value.

MARKING :-

1. Manufacturer's name :
2. Length of conductor & number of pieces :
3. Drum identification number :
4. Size of conductor :
5. Gross mass of packages :
6. Net mass of conductors :
7. ISI certification marks :
8. Purchase order No. /Date :

REELS & DRUMS :- Should Confirm with IS: 10418/1982 (Reaffirmed 1991) or latest amendment thereof .