

CURRENT RATINGS OF WIRE AND MAXIMUM ALLOWABLE NICKED OR BROKEN STRANDS

Table 1-I-1 Current Rating Of Wires In Amps (SAE AS 50881)

Conductor Material	Wire Size	Wires in Bundles, Groups or Harnesses (Note 1)			Wire in Free Air & Ambient 70°C (Note 2)		
		Wire Temp Rating			Wire Temp Rating		
		105°C	150°C	200°C	105°C	150°C	200°C
Copper or Copper Alloy	22	3	5	6	9	12.5	16
	20	4	7	9	11	17	21
	18	6	9	12	15	22.5	28
	16	7	11	14	17	26	33
	14	10	14	18	23	35	44
	12	13	19	25	31	47	60
	10	17	26	32	41	62	78
	8	38	57	71	64	90	125
	6	50	76	97	82	125	
	4	68	103	133	110	170	
	2	95	141	179	155		
	1	113	166	210	185		
	1/0	128	192	243	210		
	2/0	147	222	285	240		
	3/0	172	262	335	276		
	4/0	204	310	395	340		
Aluminium	8	30	45				
	6	40	61				
	4	54	82				
	2	76	113				
	1	90	133				
	1/0	102	153				
	2/0	117	178				
	3/0	138	209				
	4/0	163	248				

Notes:

- Rating for 70°C ambient, 33 or more wires in harness with no more than 20% harness current capacity being used at operating altitude of 60,000 ft.
- Rating of wires in FREE air at ambient temperature of 70°C.