

MAXIMUM ALLOWABLE AMPERAGE OF CONDUCTORS UNDER 50 VOLTS
PER SAE J-378

REPRODUCED FROM THE COLEMAN CABLE INC. CATALOG

TEMPERATURE RATING OF CONDUCTOR INSULATION

WIRE SIZE AWG	67° C (140° F)		75° C (167° F)		80° C (176° F)	
	OUTSIDE ENGINE SPACES	INSIDE ENGINE SPACES	OUTSIDE ENGINE SPACES	INSIDE ENGINE SPACES	OUTSIDE ENGINE SPACES	INSIDE ENGINE SPACES
18	10	5.8	10	7.5	15	11.7
16	15	8.7	15	11.3	20	15.6
14	20	11.6	20	15.0	25	19.5
12	25	14.5	25	18.8	35	27.3
10	40	23.2	40	30.0	50	39.0
8	55	31.9	65	48.8	70	54.6
6	80	46.4	95	71.3	100	78.0
4	105	60.9	125	93.8	130	101.4
3	120	69.6	145	108.8	150	117.0
2	140	81.4	170	127.5	175	136.5
1	165	95.7	195	146.3	210	163.8
0	195	113.1	230	172.5	245	191.1
00	225	130.5	265	198.8	285	222.3
000	260	150.8	310	232.5	330	257.4
0000	300	174.0	360	270.0	385	300.3

	90° C (194° F)		105° C (221° F)		125° C (257° F)		200° C (392° F)
	OUTSIDE ENGINE SPACES	INSIDE ENGINE SPACES	OUTSIDE ENGINE SPACES	INSIDE ENGINE SPACES	OUTSIDE ENGINE SPACES	INSIDE ENGINE SPACES	
18	20	16.4	20	17.0	20	22.3	25
16	25	20.5	25	21.3	30	26.7	35
14	30	24.6	35	29.8	40	35.6	45
12	40	32.8	45	38.3	50	44.5	55
10	55	45.1	60	51.0	70	62.3	70
8	70	57.4	80	68.0	90	80.1	100
6	100	82.0	120	102.0	125	111.3	135
4	135	110.7	160	136.0	170	151.3	180
3	155	127.1	180	153.0	195	173.6	210
2	180	147.6	210	178.5	225	200.3	240
1	210	172.2	245	208.3	265	235.9	280
0	245	200.9	285	242.3	305	271.5	325
00	285	233.7	330	280.5	355	316.0	370
000	330	270.6	385	327.3	410	364.9	430
0000	385	315.7	445	378.3	475	422.8	510