



Circuits, Current Flow & Fuses

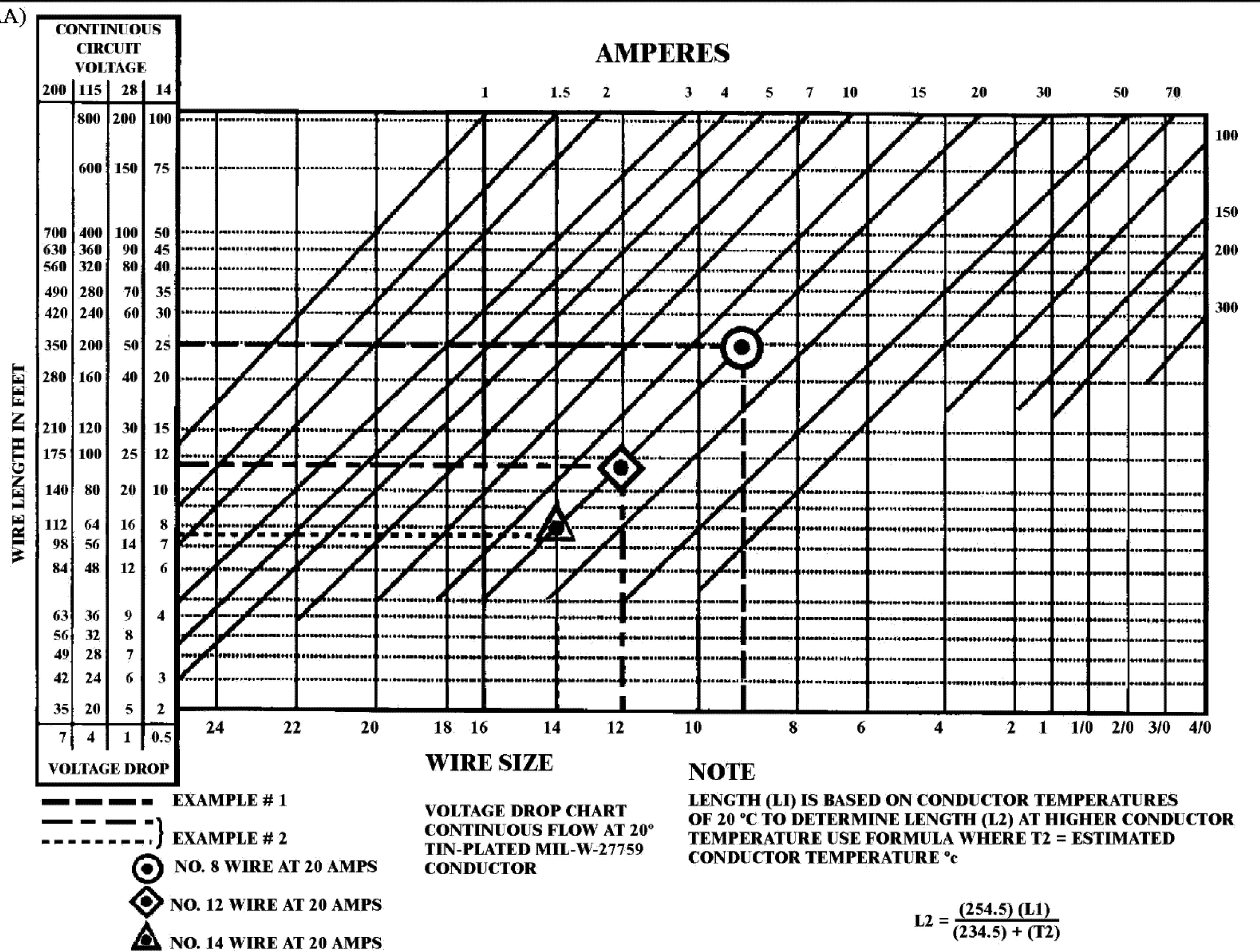
TABLE 11-9. Current carrying capacity and resistance of copper wire. (FAA)

Wire Size	Continuous duty current (amps)-Wires in bundles, groups, harnesses, or conduits.			Max. resistance ohms/1000ft @20 °C tin plated conductor	Nominal conductor area circ.mils
	Wire Conductor Temperature Rating				
	105 °C	150 °C	200 °C		
24	2.5	4	5	28.40	475
22	3	5	6	16.20	755
20	4	7	9	9.88	1,216
18	6	9	12	6.23	1,900
16	7	11	14	4.81	2,426
14	10	14	18	3.06	3,831
12	13	19	25	2.02	5,874
10	17	26	32	1.26	9,354
8	38	57	71	0.70	16,983
6	50	76	97	0.44	26,818
4	68	103	133	0.28	42,615
2	95	141	179	0.18	66,500
1	113	166	210	0.15	81,700
0	128	192	243	0.12	104,500
00	147	222	285	0.09	133,000
000	172	262	335	0.07	166,500
0000	204	310	395	0.06	210,900

Table 11-2b. Comparable properties of wire insulation systems.

Relative Ranking	Most desirable → Least			
	1	2	3	4
Weight	PI	ETFE	COMP	PTFE
Temperature	PTFE	COMP	PI	ETFE
Abrasion resistance	PI	ETFE	COMP	PTFE
Cut-through resistance	PI	COMP	ETFE	PTFE
Chemical resistance	PTFE	ETFE	COMP	PI
Flammability	PTFE	COMP	PI	ETFE
Smoke generation	PI	COMP	PTFE	ETFE
Flexibility	PTFE	ETFE	COMP	PI
Creep (at temperature)	PI	COMP	PTFE	ETFE
Arc propagation resistance	PTFE	ETFE	COMP	PI

(FAA)



CIRCUIT TYPE	CURRENT FLOW IN AMPS																
	10% VOLTAGE DROP	Non Critical	3% VOLTAGE DROP	Critical	5	10	15	20	25	30	40	50	60	70	80	90	100
	0-20 ft	0 to 6 ft															
CIRCUIT LENGTH	30 ft	10 ft	16 AWG	14 AWG	16 AWG	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM
	50 ft	15 ft	16 AWG	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM
	65 ft	20 ft	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM
	80 ft	25 ft	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM
	100 ft	30 ft	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM
	130 ft	40 ft	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM
	165 ft	50 ft	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM
	200 ft	60 ft	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM
		70 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM	1100 MCM
		80 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM	1100 MCM
		90 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM	1100 MCM
		100 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM	1100 MCM
		110 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM	1100 MCM
		120 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM	1100 MCM
		130 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	4/0 AWG	500 MCM	600 MCM	700 MCM	800 MCM	900 MCM	1000 MCM	1100 MCM

Phone: 1-888-214-7774

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SVI POWER PRODUCTS

Total System Length (length of positive feed + length of negative return) in inches

24" 48" 72" 96" 120" 144" 168" 192" 240" 288" 336" 400" 500" 600"

SYSTEM AMPERAGE

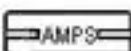
10 15 20 25 30 40 50 60 70 80 90 100 120 150 200

16ga 16ga 16ga 14ga 14ga 14ga 12ga 12ga 10ga 10ga 8ga 8ga 6ga 6ga 4ga 4ga 2ga 2ga 1ga 1ga 0 AWG 0 AWG 2/0 AWG 2/0 AWG 3/0 AWG 3/0 AWG 4/0 AWG 4/0 AWG 500 MCM 500 MCM 600 MCM 600 MCM 700 MCM 700 MCM 800 MCM 800 MCM 900 MCM 900 MCM 1000 MCM 1000 MCM 1100 MCM 1100 MCM 1200 MCM 1200 MCM 1300 MCM 1300 MCM 1400 MCM 1400 MCM 1500 MCM 1500 MCM 1600 MCM 1600 MCM 1700 MCM 1700 MCM 1800 MCM 1800 MCM 1900 MCM 1900 MCM 2000 MCM 2000 MCM 2100 MCM 2100 MCM 2200 MCM 2200 MCM 2300 MCM 2300 MCM 2400 MCM 2400 MCM 2500 MCM 2500 MCM 2600 MCM 2600 MCM 2700 MCM 2700 MCM 2800 MCM 2800 MCM 2900 MCM 2900 MCM 3000 MCM 3000 MCM 3100 MCM 3100 MCM 3200 MCM 3200 MCM 3300 MCM 3300 MCM 3400 MCM 3400 MCM 3500 MCM 3500 MCM 3600 MCM 3600 MCM 3700 MCM 3700 MCM 3800 MCM 3800 MCM 3900 MCM 3900 MCM 4000 MCM 4000 MCM 4100 MCM 4100 MCM 4200 MCM 4200 MCM 4300 MCM 4300 MCM 4400 MCM 4400 MCM 4500 MCM 4500 MCM 4600 MCM 4600 MCM 4700 MCM 4700 MCM 4800 MCM 4800 MCM 4900 MCM 4900 MCM 5000 MCM 5000 MCM 5100 MCM 5100 MCM 5200 MCM 5200 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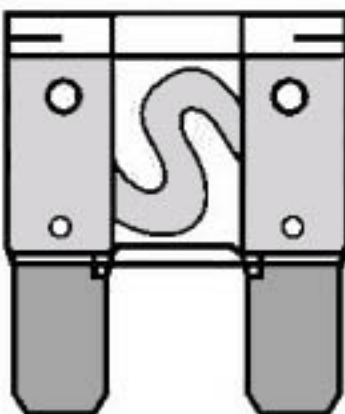
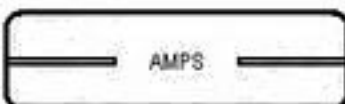
Blade Fuse Types & Colors

ATM LOW PROFILE

APS MICRO

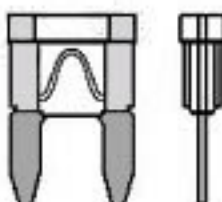
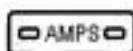


APX MAXI

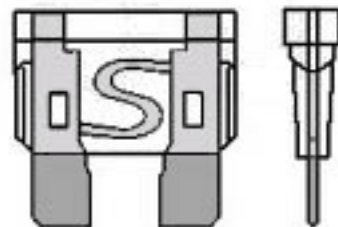
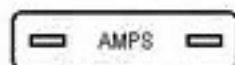


ATM APM

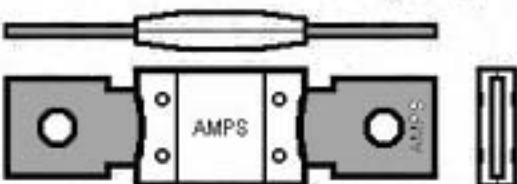
MINI



ATC ATO APR
REGULAR BLADE



AMG MEGA (black)



60, 80, 100, 125, 150,
175, 200, 225, 250, 300

Amps	Color	Sizes			
0.5	Db	-	-	APR	-
1	Bk	-	APM	APR	-
2	Gy	APS	APM	APR	-
3	Pu/Vi	APS	APM	APR	-
4	Pk	APS	APM	APR	-
5	Tn	APS	APM	APR	-
7.5	Br	APS	APM	APR	-
10	R	APS	APM	APR	-
15	Bu	APS	APM	APR	-
20	Y	APS	APM	APR	APX
25	Cl	APS	APM	APR	APX
30	Gn	APS	APM	APR	APX
35	BG/Br	-	-	APR	APX
40	Or	-	-	APR	APX
50	R	-	-	-	APX
60	Bu	-	-	-	APX
70	Tn/Am	-	-	-	APX
80	Cl	-	-	-	APX
100	Vi	-	-	-	APX
120	Pu	-	-	-	APX