General Purpose Automotive Battery Cable (SGT)

80°C or 105°C. 60 Volts DC or 25 Volts AC. Flexible Stranded Copper Conductor. PVC Insulation.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Flexible stranded bare copper. Tinned copper available upon request
2. **Insulation:** Polyvinyl Chloride (PVC). All colors available; Stripes available upon request

APPLICATIONS AND FEATURES:

Battery cables intended for use at nominal system voltage of 60 Volts DC (25 Volts AC) or less. Can be used in harnesses made for all types of surface vehicles. Resistant to flame, ozone, hot water, abrasion, automotive fluids, temperature humidity cycling. 600 - 1000 Volt rated designs may be available upon special order.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- SAE J1127 Surface Vehicle Standard Low Voltage Battery Cable

SAMPLE PRINT LEGEND:

CF XX AWG SAE J1127 TYPE SGT XXC

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Approx. OD	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C
	AWG	strands	inch	mil	inch	lb /1000ft	Ω /1000ft	Ω /1000ft
SGT								
F04077*	4	133	0.235	65	0.356	164	0.274	0.330
F3T040*	3/0	1615	0.480	78	0.641	607	0.069	0.083
F4T050*	4/0	2109	0.530	78	0.700	771	0.055	0.067
F06035	6	133	0.186	60	0.301	109	0.435	0.524
F04022	4	133	0.235	73	0.356	167	0.274	0.330
F02019	2	133	0.290	65	0.420	314	0.172	0.207
F01014	1	259	0.300	65	0.458	252	0.137	0.164
F1T019	1/0	1026	0.379	65	0.515	395	0.109	0.131
F2T013	2/0	1254	0.400	65	0.570	465	0.087	0.104
F3T010	3/0	1615	0.480	78	0.646	610	0.069	0.083
F4T018	4/0	2109	0.530	78	0.706	772	0.055	0.067

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
*Rated 105°C
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Ampacity

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