General Purpose Automotive Battery Cable (SGX)

125°C. 60 Volts DC or 25 Volts AC. Flexible Stranded Copper Conductor. XLPE Insulation.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Flexible stranded bare copper with craft paper separator. Tinned copper available upon request
2. **Insulation:** Cross Linked Polyethylene (XLPE). 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:

XX GA SAE J1127 TYPE SGX

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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
SGX								
F06023	6	133	0.186	60	0.315	113	0.435	0.524
F04014	4	133	0.235	60	0.374	175	0.274	0.330
F02013	2	133	0.290	65	0.428	329	0.172	0.207
F01011	1	259	0.305	65	0.460	281	0.137	0.164
F1T016	1/0	1026	0.379	65	0.523	402	0.109	0.131
F2T010	2/0	1254	0.400	65	0.578	473	0.087	0.104
F3T008	3/0	1615	0.480	85	0.654	619	0.069	0.083
F4T015	4/0	2109	0.530	78	0.714	782	0.055	0.067

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
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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