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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Approx. OD	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C
	AWG	No.	strands	inch	mil	inch	lb /1000ft	Ω /1000ft	Ω /1000ft
SGT									
F3T010	3/0	1	1615	0.480	78	0.646	610	0.069	0.083

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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved