

TYPE SGX

CROSS-LINKED BATTERY CABLE



Applications

Direct's Type SGX is a versatile battery cable constructed with high-quality, cross-linked polyolefin (XLPO). The cable is most commonly used for interconnection between auto/vehicle battery terminals, starters, and grounds, but is also suitable for industrial applications. Type SGX is SAE J1127 and RoHS compliant and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded SAE intermediate or ASTM Class K copper; bare (standard) or tinned (optional)
 - Wrapped paper separator
 - Jacketed with LSHF cross-linked XLPO compound
- [See reverse for construction details and technical specifications](#)

TYPE SGX CROSS-LINKED BATTERY CABLE							
AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		AMPACITY ¹	LBS PER 1,000'
	/ DIAM (OR) GA	INCHES	MM	INCHES	MM		
#6	133 / .014	.060	1.52	.331	8.41	125 A	110
#4	133 / .017	.065	1.65	.380	9.65	170 A	163
#2	133 / .022	.065	1.65	.445	11.30	225 A	250
#1	133 / .024	.065	1.65	.479	12.17	265 A	302
1 / 0	1,066 / 30	.065	1.65	.508	12.90	305 A	384
2 / 0	1,339 / 30	.065	1.65	.557	14.15	355 A	476
3 / 0	1,677 / 30	.078	1.98	.636	16.15	410 A	602
4 / 0	2,109 / 30	.078	1.98	.699	17.75	475 A	748
250 MCM	2,527 / 30	.078	1.98	.757	19.23	530 A	895

¹Allowable ampacity values are based on ambient temperature of 30°C in open air.



TYPE SGX CROSS-LINKED BATTERY CABLE

TECHNICAL SPECIFICATIONS

Construction

Conductors	<ul style="list-style-type: none">• Rope-lay, bunch-stranded SAE intermediate or ASTM Class K copper• Bare (standard) or tinned (optional)
Voltage Rating	<ul style="list-style-type: none">• 60 V DC; 25 V AC
Insulation & Jacket	<ul style="list-style-type: none">• Wrapped paper separator• Jacketed with LSHF (low-smoke, halogen-free) cross-linked XLPO compound• Resistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame propagation, gasoline, power-steering fluid, and transmission fluid
Temperature Range	<ul style="list-style-type: none">• -40°C (-40°F) to 125°C (257°F) Dry

Standards & Certifications

Industry Approvals	<ul style="list-style-type: none">• SAE J1127 Compliant• CMRT, RoHS, and Prop 65 Compliant
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Standard Stock

Available Lengths	<ul style="list-style-type: none">• Coils/Assemblies at 25', 50', and 100'• Reels at 250', 500', 1,000', and 2,500'• Custom lengths available upon request
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Customization

Jacket Colors	<ul style="list-style-type: none">• ● Black (standard) ● Red
Marking Options	<ul style="list-style-type: none">• Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking
