# Primary Automotive Lead Wire

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

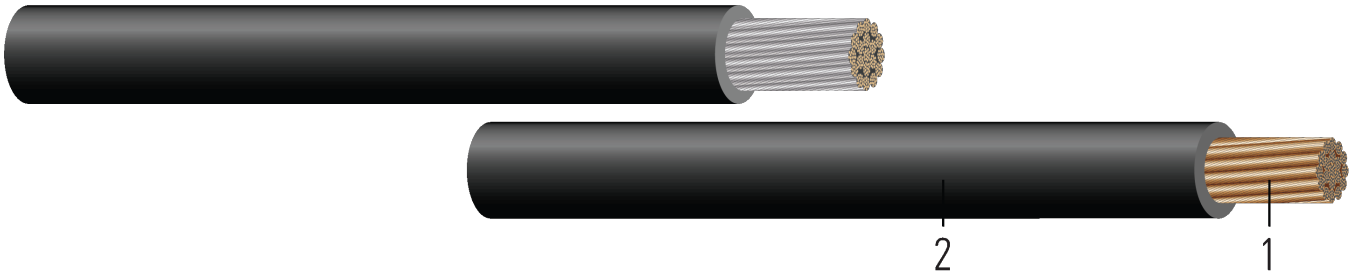



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Flexible stranded bare copper. Tinned copper available upon request
2. **Insulation:** Cross Linked Polyethylene (XLPE). All colors available; Stripes available upon request.

## APPLICATIONS AND FEATURES:

Intended for use at nominal system voltage of 60 Volts DC (25 Volts AC) or less in surface vehicle electrical systems.

- GXL - General Purpose
- SXL - Special Purpose
- TXL - Thin Wall

## SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- SAE J1128 Surface Vehicle Standard Low Voltage Primary Cable
- Ford ESB-M1L85-A
- Chrysler MS-8900
- Chrysler MS-5919
- Ford ESB-M1L123A
- Chrysler MS-8288


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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 |
| TXL | | | | | | | | |
| F22056 | 22 | 7 | 0.028 | 31 | 0.062 | 3 | 16.400 | 16.890 |
| TXL | | | | | | | | |
| F20023 | 20 | 7 | 0.037 | 37 | 0.070 | 5 | 11.319 | 13.638 |
| F18023 | 18 | 16 | 0.044 | 16 | 0.078 | 7 | 7.148 | 8.613 |
| F18025 | 18 | 19 | 0.044 | 16 | 0.078 | 6 | 7.148 | 8.613 |
| F16019 | 16 | 19 | 0.059 | 16 | 0.089 | 9 | 4.487 | 5.406 |
| F14023 | 14 | 19 | 0.073 | 16 | 0.103 | 14 | 2.814 | 3.391 |
| F12015 | 12 | 19 | 0.094 | 16 | 0.127 | 22 | 1.774 | 2.137 |
| F10048 | 10 | 19 | 0.125 | 16 | 0.155 | 35 | 1.081 | 1.302 |
| F08061 | 8 | 19 | 0.145 | 22 | 0.191 | 55 | 0.679 | 0.818 |
| GXL | | | | | | | | |
| F20022 | 20 | 7 | 0.037 | 41 | 0.086 | 6 | 11.319 | 13.638 |
| F18022 | 18 | 19 | 0.044 | 43 | 0.092 | 8 | 7.148 | 8.613 |
| F18021 | 18 | 16 | 0.044 | 23 | 0.092 | 8 | 7.148 | 8.613 |
| F16014 | 16 | 19 | 0.059 | 23 | 0.103 | 11 | 4.487 | 5.406 |
| F14021 | 14 | 19 | 0.073 | 23 | 0.117 | 16 | 2.814 | 3.391 |
| F12012 | 12 | 19 | 0.094 | 23 | 0.143 | 24 | 1.774 | 2.137 |
| F10004 | 10 | 19 | 0.125 | 23 | 0.179 | 39 | 1.081 | 1.302 |
| F08011 | 8 | 19 | 0.145 | 26 | 0.216 | 60 | 0.679 | 0.818 |
| SXL | | | | | | | | |
| F20024 | 20 | 7 | 0.037 | 29 | 0.096 | 7 | 11.319 | 13.638 |
| F18026 | 18 | 16 | 0.044 | 29 | 0.102 | 9 | 7.148 | 8.613 |
| F18091 | 18 | 19 | 0.044 | 30 | 0.102 | 9 | 7.148 | 8.613 |
| F16020 | 16 | 19 | 0.059 | 32 | 0.118 | 12 | 4.487 | 5.406 |
| F14024 | 14 | 19 | 0.073 | 30 | 0.137 | 18 | 2.814 | 3.391 |
| F12017 | 12 | 19 | 0.094 | 32 | 0.160 | 27 | 1.774 | 2.137 |
| F10005 | 10 | 19 | 0.125 | 35 | 0.191 | 41 | 1.081 | 1.302 |
| F08033 | 8 | 19 | 0.145 | 37 | 0.234 | 64 | 0.679 | 0.818 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
GXL meets Ford ESB-M1L85-A, Chrysler MS-8900
SXL meets Ford ESB-M1L85-A, Chrysler MS-5919
TXL meets Ford ESB-M1L123A, Chrysler MS-8288
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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