General Purpose Primary Automotive Wire (GPT)

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

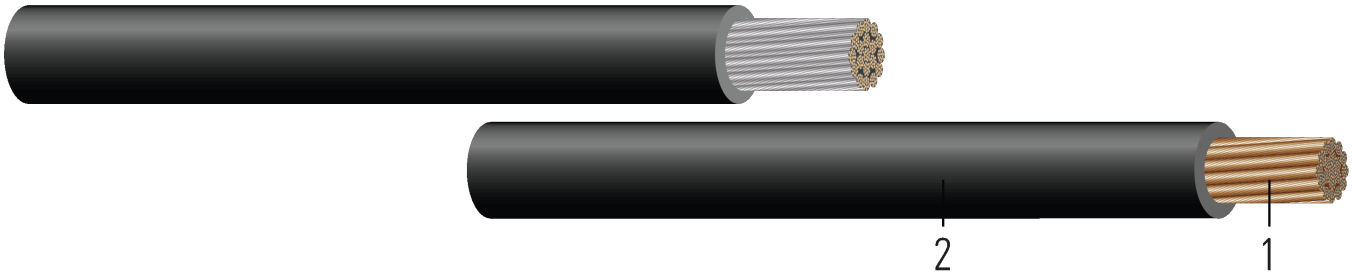

Image not to scale. See Table 1 for dimensions.

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:

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

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- SAE J1128 Surface Vehicle Standard Low Voltage Primary Cable
- Ford ESF-M1L56 (80°C Wires)
- Chrysler MS-3450 (80°C Wires)
- Chrysler MS-3450 (105°C Wires)
- Ford ESF-M1L58-A (105°C Wires)

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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
GPT								
F20013	20	7	0.037	23	0.084	6	11.319	13.638
F20016	20	7	0.037	23	0.084	6	11.319	13.638
F18010	18	16	0.044	23	0.092	8	7.148	8.613
F18159	18	19	0.044	23	0.092	8	7.148	8.613
F18012	18	16	0.044	23	0.092	8	7.148	8.613
F16092	16	19	0.059	23	0.103	10	4.487	5.406
F16007	16	19	0.059	23	0.103	11	4.487	5.406
F14012	14	19	0.073	23	0.117	15	2.814	3.391
F14014	14	19	0.073	23	0.117	15	2.814	3.391
F12054	12	19	0.094	26	0.142	24	1.774	2.137
F12009	12	19	0.094	26	0.142	24	1.774	2.137
F10051	10	19	0.125	32	0.177	38	1.081	1.302
F10001	10	19	0.125	32	0.177	38	1.081	1.302
F08031	8	19	0.145	37	0.222	61	0.679	0.818
F08001	8	19	0.145	37	0.222	61	0.679	0.818

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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