General Purpose Primary Automotive Wire (GPT)

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

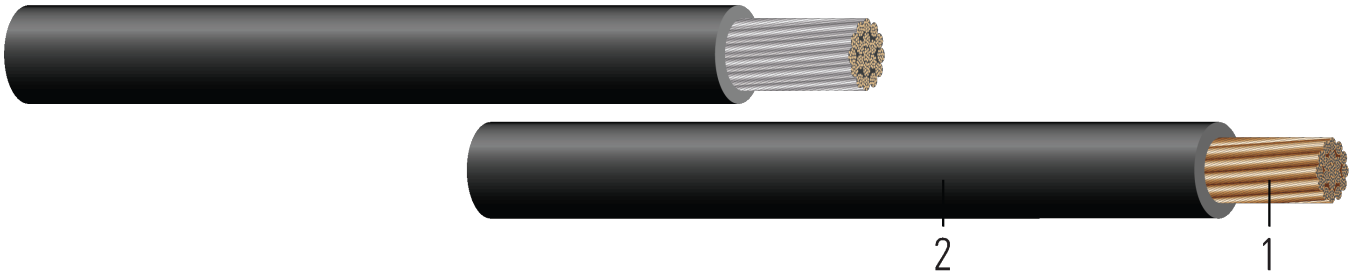

Image not to scale. See Table 1 for dimensions.

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)

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
GPT									
F20013	20	0	7	0.037	23	0.084	6	11.319	13.638
F20016	20	1	7	0.037	23	0.084	6	11.319	13.638
F18010	18	1	16	0.044	23	0.092	8	7.148	8.613
F18159	18	1	19	0.044	23	0.092	8	7.148	8.613
F18012	18	1	16	0.044	23	0.092	8	7.148	8.613
F16092	16	1	19	0.059	23	0.103	10	4.487	5.406
F16007	16	1	19	0.059	23	0.103	11	4.487	5.406
F14012	14	1	19	0.073	23	0.117	15	2.814	3.391
F14014	14	1	19	0.073	23	0.117	15	2.814	3.391
F12054	12	1	19	0.094	26	0.142	24	1.774	2.137
F12009	12	1	19	0.094	26	0.142	24	1.774	2.137
F10051	10	1	19	0.125	32	0.177	38	1.081	1.302
F10001	10	1	19	0.125	32	0.177	38	1.081	1.302
F08031	8	1	19	0.145	37	0.222	61	0.679	0.818
F08001	8	1	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