Thin Wall Primary Automotive Wire (TWP)

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

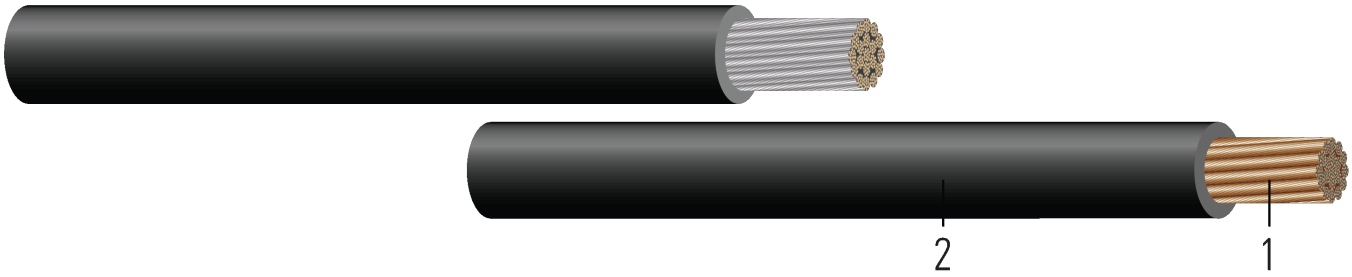

Image not to scale. See Table 1 for dimensions.

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 ESB-M1L120-A
- Chrysler MS-7889

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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
TWP								
F22069	22	7	0.028	16	0.062	3	16.400	16.890
F24009	20	1	0.032	16	0.062	1	10.503	12.655
F20020	20	7	0.037	16	0.070	5	11.319	13.638
F18018	18	19	0.044	16	0.078	6	7.148	8.613
F18017	18	16	0.044	16	0.078	7	7.148	8.613
F16011	16	19	0.059	16	0.089	9	4.487	5.406
F14017	14	19	0.073	16	0.103	14	2.814	3.391
F12038	12	19	0.094	16	0.126	22	1.774	2.137
F10059	10	19	0.125	16	0.155	35	1.081	1.302

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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