



## Thin Wall Primary Automotive Wire (TWP)

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

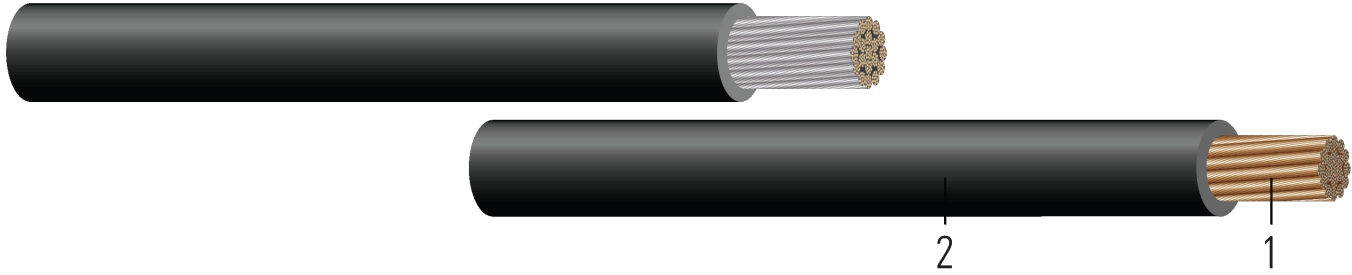


Image not to scale. See Table 1 for dimensions.

### 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



**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

Ampacity

