# Thin Wall Primary Automotive Wire (TWP)

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

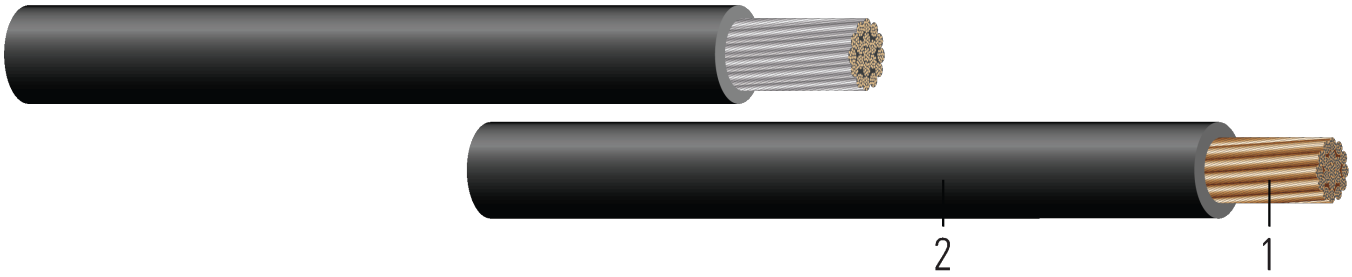


Image not to scale. See Table 1 for dimensions.

## 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


Copyright © 2026 Southwire Company, LLC. All Rights Reserved

## 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


Copyright © 2026 Southwire Company, LLC. All Rights Reserved