# Flexible Hook-Up Wire/MTW

105°C Dry. 75°C Moisture Resistant. 600/1000 Volts. Flexible Stranded Copper Conductor. PVC Insulation.

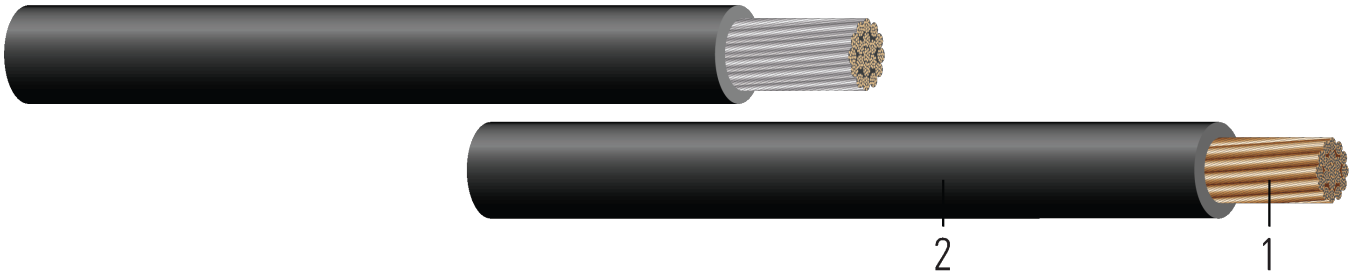


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Flexible stranded bare or tinned copper per ASTM B3 or B33
2. **Insulation:** Polyvinyl Chloride (PVC). All colors available; Stripes available upon request

## APPLICATIONS AND FEATURES:

Designed for internal wiring of electrical equipment, control panels, appliances, and ground for use on industrial plan floor. For use as permitted by National Electrical Code® Article 310, NFPA 70, and in boat wiring in accordance with 33 CFR 183.425-435.

- AWM Style 1232: 105°C Dry, 60°C Wet, 600V
- AWM Style 1283: 105°C Dry, 600V
- AWM Style 1284: 105°C Dry, 600V
- AWM Style 1338: 90°C Dry, 60°C Wet/Oil, 600V
- AWM Style 1346: 105°C Dry, 75°C Wet, 600V
- AWM Style 10269: 105°C Dry, 1000V
- THHW: 90°C Dry, 75°C Wet, 600V
- Machine Tool Wiring (MTW): 90°C Dry, 60°C Wet/Oil, 600V
- BC-5W2: 105°C Dry, 75°C Wet, 600V
- TEW: 105°C Dry, 600V
- AWM I A/B: 105°C Dry, 600V

## SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B173 Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members
- SAE J1127 Surface Vehicle Standard Low Voltage Battery Cable
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 758 Standard for Appliance Wiring Material
- UL 1063 Machine Tool Wiring (MTW)
- UL 1426 Electric Cables for Boats (BC-5W2)
- CSA C22.2 No. 127 Equipment and Lead Wires
- CSA C22.2 No. 210 Appliance Wiring Material Products



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## SAMPLE PRINT LEGEND:

### 6-3 AWG

XX AWG (XX{mm2}) E69567 {UL} BC-5W2 OR MTW OR THHW OR AWM 1232/1283/1346 600V OR 10269 1000V OIL RES I SUN RES VW-1 -- 156205 {CSA} TEW 105C 600V FT1 OR AWM I A/B 105C 600V FT1 -- SAE J1127 TYPE SGT

### 1/0 - 4/0 AWG

XX AWG (XX{mm2}) E69567 {UL} BC-5W2 OR MTW OR THHW FOR CT USE OR AWM 1232/1284/1338 600V OR 10269 1000V OIL RES I SUN RES VW-1 --- 156205 {CSA} TEW 105{D}C 600V FT-1 OR AWM I A/B 105{D}C 600V FT-1 -- SAE J1127 TYPE SGT

### MCM Sizes

E51583 XXX MCM 600 VOLT {UL} TYPE MTW VW-1 OR THHW FOR CT USE OR AWM STYLES 1284 & 1339 600V & 10269 1000V SUN RES -- {CSA} 156205 AWM I A/B 600V 105{D}C FT1


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## Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Cond. Metal | Diameter Over Cond. | Insul. Thickness | Approx. OD | Copper Weight | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | No. | strands | | inch | mil | inch | lb /1000ft | lb /1000ft | Ω /1000ft | Ω /1000ft |
| MTW/AWM/TEW/SGT | | | | | | | | | | | |
| F1T020 | 1/0 | 1 | 1064 | TCu | 0.354 | 90 | 0.561 | 335 | 420 | 0.113 | 0.136 |

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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