

UL Style 1007 Hook-UP Wire (Solid conductor)

PVC insulated / 80°C 300V


UL Recognized: E209277



P/N: 1007-XX-1-2000-OXX-1-TD

| Conductor                                   |   | Insulation                      |                             | Electrical Character                                |                            |  |
|---|---|---------------------------------|-----------------------------|---|----------------------------|--|
| Solid Diameter<br>AWG<br>(mm <sup>2</sup> ) | Composition<br>No/Diameter of<br>Component Wire<br>(mm) | Insulation<br>Thickness<br>(mm) | Overall<br>Diameter<br>(mm) | Mini Insulation<br>Resistance<br>at 20°C<br>(Ω/kft) | Sparking<br>Test<br>1 Sec. | Maximum<br>Conductor<br>Resistance<br>Ω/kft 20°C |
| 26AWG<br>(0.12mm <sup>2</sup> )             | 1/0.404<br>Solid  | 0.41                            | 1.25(±0.10)                 | DC 500V<br>>10MΩ-km                                 | 1000VAC                    | 43.53  |
| 24AWG<br>(0.22mm <sup>2</sup> )             | 1/0.511<br>Solid  | 0.41                            | 1.35(±0.10)                 | DC 500V<br>>10MΩ-km                                 | 1000VAC                    | 27.25  |
| 22AWG<br>(0.33mm <sup>2</sup> )             | 1/0.643<br>Solid  | 0.41                            | 1.50(±0.10)                 | DC 500V<br>>10MΩ-km                                 | 1000VAC                    | 16.50  |
| 20AWG<br>(0.53mm <sup>2</sup> )             | 1/0.813<br>Solid  | 0.41                            | 1.65(±0.10)                 | DC 500V<br>>10MΩ-km                                 | 1000VAC                    | 10.30  |
| 18AWG<br>(0.84mm <sup>2</sup> )             | 1/1.024<br>Solid  | 0.41                            | 1.85(±0.10)                 | DC 500V<br>>10MΩ-km                                 | 1000VAC                    | 6.52   |
| 16AWG<br>(1.3mm <sup>2</sup> )              | 1/1.29<br>Solid   | 0.41                            | 2.1(±0.10)                  | DC 500V<br>>10MΩ-km                                 | 1000VAC                    | 4.10   |

1. Scope: Concerning on UL758 the size from 16AWG to 32AWG working temperature 300V 80°C
2. Conductor: Solid tinned copper, 32AWG-16AWG
3. Insulation Material: Extruded PVC
4. Reference strand: UL758/1581
5. Surface Printing:

 AWM STYLE 1007 E209277 80°C 300V   AWG CSA TYPE AWM IA LL206504 FT1 80°C 300V  
  AWG 3A LF

6. Electrical and Physical character

Unaged: Elongation:100%

Tensile Strength: 1500lbf/in<sup>2</sup>

After aged: Test specimens being kept in an air oven with 113°C(±1°C) for 168 hours

Elongation:65% result of unaged test specimen

Tensile Strength: 70% result of the unaged test specimen.

Flame Test: FT1 : Conforming to UL758 method to test

7. Dielectric Withstand Voltage Test: 2000Vac for 1 minute No Breakdown
8. Packing: 2000ft per reel, Tolerance -1%
9. Country of Origin: Taiwan

| P/N's & COLORS                   |                                  |                                   |   |                                 |
|----------------------------------|----------------------------------|-----------------------------------|---|---------------------------------|
| 1007-XX-1-2000-001-1-TD<br>BLACK | 1007-XX-1-2000-002-1-TD<br>WHITE | 1007-XX-1-2000-003-1-TD<br>YELLOW | 1007-XX-1-2000-004-1-TD<br>RED            | 1007-XX-1-2000-005-1-TD<br>BLUE |
| 1007-XX-1-2000-006-1-TD<br>BROWN | 1007-XX-1-2000-007-1-TD<br>GREEN | 1007-XX-1-2000-008-1-TD<br>ORANGE | 1007-XX-1-2000-011-1-TD<br>GREEN + YELLOW |                                 |