



## SIS/XHHW-2 VW-1

90°C Wet/Dry. 600 Volts. Flexible Stranded Copper Conductor. XLPE Insulation.

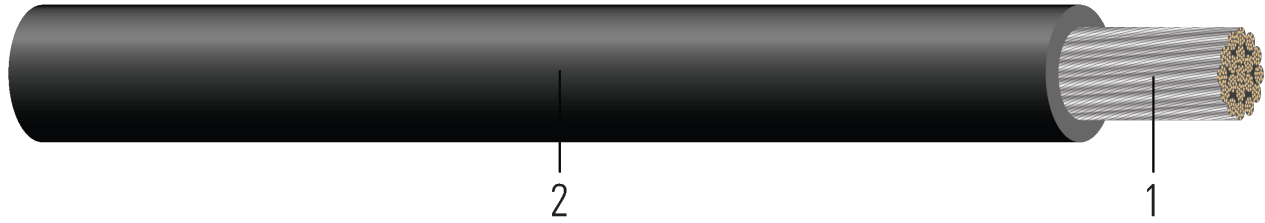


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Flexible stranded tinned copper. Bare copper available upon request
2. **Insulation:** Cross Linked Polyethylene (XLPE). All colors available

### 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.

- SIS: 90°C Dry, 600V
- XHHW-2: 90°C Dry, 90°C Wet, 1000V
- RW90: 90°C Dry, 90°C Wet, 8 - 4/0 AWG 600V

Rated for Oil Res II, Gasoline Res II, VW-1, FT1, FT2 or FT4 (8 AWG and larger), and -40°C Cold Bend

### SPECIFICATIONS:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors (As Applicable)
- ASTM B173 Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- UL 44 Thermoset-Insulated Wires and Cables
- CSA C22.2 No. 38 Thermoset-insulated wires and cables

### SAMPLE PRINT LEGEND:

#### 14 - 10 AWG

XX AWG (XXmm<sup>2</sup>) CLASS K E30117 (UL) XHHW-2 SR PR II GR II OR SIS 90C 1000V VW-1 -- 156205 CSA SIS 90C 600V -40C FT1 FT2 VW-1

#### 8 - 4/0 AWG

XX AWG (XXmm<sup>2</sup>) E30117 (UL) XHHW-2 SR PR II GR II OR SIS 90C 1000V VW-1 -- 156205 CSA RW90 90C DRY/90C WET 600V PRI -40C FT1 FT4 OR SIS 90C 600V -40C FT1 FT2 VW-1





**Table 1 – Physical and Electrical Data**

| Stock Number               | Cond. Size<br>AWG | Cond. Number<br>No. | Cond. Strands<br>strands | Diameter Over Cond.<br>inch | Insul. Thickness<br>mil | Approx. OD<br>inch | Approx. Weight<br>lb /1000ft | DC Resistance @ 25°C<br>Ω /1000ft |
|----------------------------|-------------------|---------------------|--------------------------|-----------------------------|-------------------------|--------------------|------------------------------|-----------------------------------|
| <b>XHHW-2 / SIS</b>        |                   |                     |                          |                             |                         |                    |                              |                                   |
| F14453                     | 14                | 0                   | 41                       | 0.071                       | 30                      | 0.127              | 18                           | 2.814                             |
| F12218                     | 12                | 1                   | 65                       | 0.090                       | 30                      | 0.154              | 28                           | 1.774                             |
| F10188                     | 10                | 1                   | 105                      | 0.114                       | 30                      | 0.175              | 40                           | 1.081                             |
| <b>XHHW-2 / SIS / RW90</b> |                   |                     |                          |                             |                         |                    |                              |                                   |
| 18808                      | 8                 | 1                   | 133                      | 0.149                       | 45                      | 0.247              | 71                           | 0.679                             |
| 18806                      | 6                 | 1                   | 133                      | 0.170                       | 45                      | 0.268              | 104                          | 0.435                             |
| 18804                      | 4                 | 1                   | 133                      | 0.240                       | 45                      | 0.338              | 159                          | 0.274                             |
| 18802                      | 2                 | 1                   | 133                      | 0.290                       | 45                      | 0.388              | 241                          | 0.172                             |
| 18821                      | 1/0               | 1                   | 1064                     | 0.365                       | 55                      | 0.485              | 383                          | 0.109                             |
| 18822                      | 2/0               | 1                   | 1330                     | 0.409                       | 55                      | 0.529              | 472                          | 0.087                             |
| 18823                      | 3/0               | 1                   | 1672                     | 0.460                       | 55                      | 0.580              | 577                          | 0.069                             |
| 18824                      | 4/0               | 1                   | 2109                     | 0.535                       | 55                      | 0.654              | 718                          | 0.055                             |

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

