



SIS/XHHW-2 VW-1

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

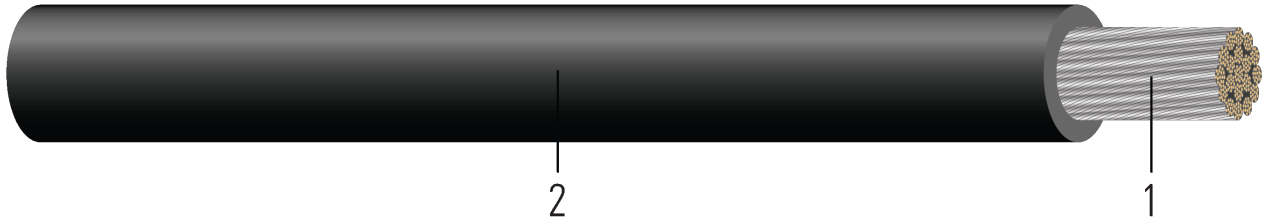


Image not to scale. See Table 1 for dimensions.

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 (XXmm²) 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 (XXmm²) 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 AWG | Cond. Strands strands | Diameter Over Cond. inch | Insul. Thickness mil | Approx. OD inch | Approx. Weight lb /1000ft | DC Resistance @ 25°C Ω /1000ft |
|----------------------------|-------------------|--------------------------|-----------------------------|-------------------------|--------------------|------------------------------|-----------------------------------|
| XHHW-2 / SIS | | | | | | | |
| F14453 | 14 | 41 | 0.071 | 30 | 0.127 | 18 | 2.814 |
| F12218 | 12 | 65 | 0.090 | 30 | 0.154 | 28 | 1.774 |
| 18810 | 10 | 105 | 0.114 | 30 | 0.175 | 40 | 1.081 |
| XHHW-2 / SIS / RW90 | | | | | | | |
| 18808 | 8 | 133 | 0.149 | 45 | 0.247 | 71 | 0.679 |
| 18806 | 6 | 133 | 0.170 | 45 | 0.268 | 104 | 0.435 |
| 18804 | 4 | 133 | 0.240 | 45 | 0.338 | 159 | 0.274 |
| 18802 | 2 | 133 | 0.290 | 45 | 0.388 | 241 | 0.172 |
| 18821 | 1/0 | 1064 | 0.365 | 55 | 0.485 | 383 | 0.109 |
| 18822 | 2/0 | 1330 | 0.409 | 55 | 0.529 | 472 | 0.087 |
| 18823 | 3/0 | 1672 | 0.460 | 55 | 0.580 | 577 | 0.069 |
| 18824 | 4/0 | 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

Ampacity

