# Type Photovoltaic / USE-2 / RHH / RHW-2 - Copper Conductor - 600V & 1KV/2KV

## Engineering Specifications

### Standards
Underwriters Laboratories Standards UL-14, UL-854, UL-1581, UL 2556, UL-4703; UL 1685 (70,000 Btu/hr) Flame Test (1/0 AWG and larger); NEMA WC70/ICEA S-95-658; NFPA 70 (NEC®) Article 690; ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; VW-1 optional; IEEE 1202/FT4 Optional; UL Listing E4-326525

### Construction
- **Conductors**: Stranded conductors, uncoated copper per ASTM-B8 and ASTM-B787

### Insulation
- Cross-linked polyethylene (XLPE) insulation per UL-854, UL-4703, UL-44

### Applications
- Type Photovoltaic copper conductors are suitable for outdoor rooftop applications without raceways and for use in raceways installed underground in wet locations, where condensation and moisture accumulations within the raceway do not exceed 90ºC. Applications requiring direct burial is permitted for Type Photovoltaic per UL-854. Applications requiring type Photovoltaic conductor, temperatures shall not exceed 90ºC in wet or dry locations. Type USE-2 is permitted for 600-volt applications only.

### Features
- Available in 600V and 1000V/2000V. Insulation compounds are rated for flame and sunlight-resistance in all sizes and colors. PV Source and Output conductors that are listed and labeled as Photovoltaic (PV) wire, of any size, are permitted in cable trays located outdoors when installed in accordance with National Electrical Code (NEC) 690.31(C)(2). Complies with flexibility at Low Temperatures and Cold Impact tests at -40ºC.

## Table

<table>
<thead>
<tr>
<th>Size (AWG or KCMIL)</th>
<th>No. of Strands</th>
<th>Insulation Thickness XLPE (in)</th>
<th>Outside Diameter</th>
<th>Allowable Ampacity (Amps)</th>
<th>Approximate Net Weight (lbs/1000 ft)</th>
<th>Approximate Area (in²)</th>
<th>Standard Packaging</th>
<th>Net Weight 600V</th>
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### Notes
- Ampacity of conductors is based on NEMA Table 310.15(B)(16) at 90ºC. See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.
- The above data is approximate and subject to normal manufacturing tolerances.

### 600V Print Legend:
- 14 AWG THROUGH 1 AWG: ENCORE WIRE® COPPER - TYPE PHOTOVOLTAIC / USE-2 / RHH / RHW-2 - COPPER CONDUCTOR - 600V & 1KV/2KV
- 1/0 AWG THROUGH 1000 KCMIL: ENCORE WIRE® COPPER - TYPE PHOTOVOLTAIC / USE-2 / RHH / RHW-2 - COPPER CONDUCTOR - 600V & 1KV/2KV

### 1KV/2KV Print Legend:
- 14 AWG THROUGH 1 AWG: ENCORE WIRE® COPPER - TYPE PHOTOVOLTAIC / USE-2 / RHH / RHW-2 - COPPER CONDUCTOR - 600V & 1KV/2KV
- 1/0 AWG THROUGH 1000 KCMIL: ENCORE WIRE® COPPER - TYPE PHOTOVOLTAIC / USE-2 / RHH / RHW-2 - COPPER CONDUCTOR - 600V & 1KV/2KV

### Standard Conductor Colors
- Black, White, Red, Yellow, Green
- Brown*, Orange**, Gray**
- *Not available in stripping
- **Minimum runs on request
- Contact local Sales Rep.