Multi-Conductor 600 or 1000 Volt Cu XLPE XHHW-2 CPE Jacket Control Cable Halo-Flex™ Type TC-ER-HL

CONSTRUCTION:
1. **Conductor:** Flexible Stranded Rope-Lay Class K Copper per ASTM B174
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2, 30 Mils thick for all sizes
3. **Ground:** Green insulated ground same size as phase conductor
4. **Filler:** Polypropylene filler as needed to fill interstecies
5. **Rip Cord:** Rip cord for quick removal of extruded polymeric layer and jacket
6. **Separator:** Mylar for ease of stripability. Optional metal shield
7. **Extruded Polymeric Layer:** Extruded Polymeric Fill Layer
8. **Overall Jacket:** -40°C Thermoplastic Chlorinated Polyethylene CPE Jacket

APPLICATIONS AND FEATURES:
Southwire’s Halo-Flex™ 600 or 1000 Volt Type TC-ER-HL power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. A gas/vapor-tight polymeric sheath is extruded over the core. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503. Listed for exposed runs in hazardous locations (TC-ER-HL) per NEC 336.10. - 40°C cold bend and cold impact. HALO-FLEX™ CPE jacket is made with patented SIM Technology. Cable can be installed in conduit without the aid of lubrication. PATENT www.patentsw.com

SPECIFICATIONS:
- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1277 Electrical Power and Control Tray Cables
- UL 1309 Marine Shipboard Cable (Optional) With TPE Jacket
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- UL 2225 Cables and Cable-Fittings For Use In Hazardous (Classified) Locations
- ICEA S-58-679 Control Cable Conductor Identification Method 1 Table 2
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test

Image not to scale. See Table 1 for dimensions.
**SAMPLE PRINT LEGEND:**
SOUTHWIRE® HALO-FLEX® TC-ER-HL E75755 {UL} XX AWG CU XX CDRS XHHW-2 GW 1 X XX AWG XLPE/CPE 90{D} C JACKET 600V or 1000V TYPE TC-ER-HL SUN. RES. FOR DIRECT BURIAL FT4 VW-1 -40(D)C OIL RES I & II ABS. RoHS-2 2011/65/EU COMPLIANT {YYYY} 07-KA180012-MSHA {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

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**Table 1 – Physical and Electrical Data**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Cond. Size</th>
<th>Cond. Number</th>
<th>Diameter Over Cond.</th>
<th>Insul. Thickness</th>
<th>Jacket Thickness</th>
<th>Approx. OD</th>
<th>Copper Weight</th>
<th>Approx. Weight</th>
<th>DC Resistance @ 90°C</th>
<th>AC Resistance @ 90°C</th>
<th>Min Bending Radius</th>
<th>Allowable Ampacity At 60°C *</th>
<th>Allowable Ampacity 75°C *</th>
<th>Allowable Ampacity 90°C *</th>
</tr>
</thead>
<tbody>
<tr>
<td>679841</td>
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<td>5</td>
<td>0.116</td>
<td>30</td>
<td>60</td>
<td>0.782</td>
<td>162</td>
<td>404</td>
<td>1.040</td>
<td>1.300</td>
<td>6.26</td>
<td>24</td>
<td>28</td>
<td>30</td>
</tr>
</tbody>
</table>

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)