

HALO-FLEX™ CU 600/1000V XLPE Insulation Thermoplastic CPE-TP Jacket. XHHW-2 TC-ER-HL

Halo-Flex™ Type TC-ER-HL Power Cable 600 or 1000 Volt Copper Conductors, Cross Linked Polyethylene (FR-XLPE) Insulation XHHW-2 -40°C Thermoplastic CPE-TP Jacket, Control Cable Conductor Identification Method 3

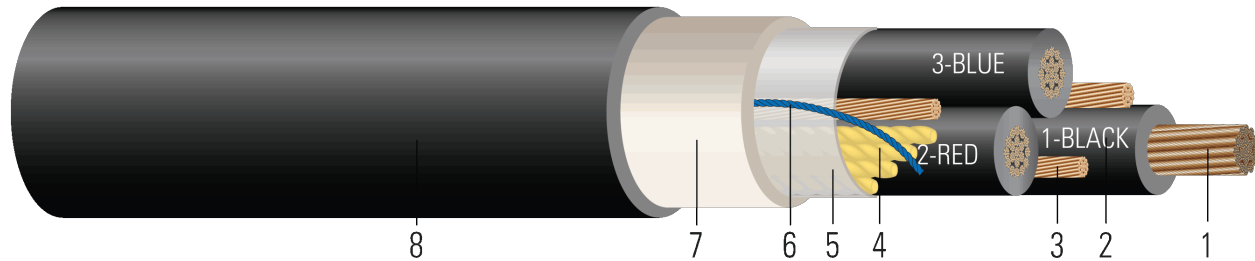


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Flexible Stranded Rope-Lay Class I Copper per ASTM B172
- Insulation:** Fire Retardant Cross Linked Polyethylene (FR-XLPE) Type XHHW-2
- Ground:** Three symmetrical bare grounds flexible strand
- Filler:** Non-Hygroscopic flame retardant fillers
- Separator:** Mylar for ease of stripability
- Rip Cord:** Rip cord for quick removal of extruded polymeric layer and jacket
- Extruded Polymeric Layer:** Extruded Polymeric Barrier Layer
- Overall Jacket:** Low-Friction SIM Technology® -40°C Thermoplastic Chlorinated Polyethylene (CPE-TP) Jacket

APPLICATIONS AND FEATURES:

Southwire's Halo-Flex™ 600V TC-ER-HL or 1000V TC-ER 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. Rated for use in Class I, II, or III, Division 1 & 2, Zone 1 & 2, hazardous locations per NEC Article 501, 502, and 503. Listed for exposed runs (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 Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1277 Electrical Power and Control Tray Cables
- 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 3 (1-BLACK, 2-RED, 3-BLUE)
- 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
- RoHS-3 Complies with European Directive 2015/863



Southwire

**CABLETECH
SUPPORT™**

Services

- ABS American Bureau of Shipping Approved
- MSHA Mine Safety Health Administration Approved

SAMPLE PRINT LEGEND:

Products ≤ 1"

{SEQ FOOTAGE} SOUTHWIRE{R} HALO-FLEX{TM} E75755 (Plant Code) {UL} XX (AWG or kcmil) CU 3/C XHHW-2 CRS GW 3 X XX AWG FR-XLPE/CPE 90°C 600V TYPE TC-ER-HL OR 1000V TYPE TC-ER SUN. RES. FOR DIRECT BURIAL FT4 -40°C OIL RES I/ II ABS RoHS-3 2015/863 COMPLIANT {YYYY} 07-KA180012-MSHA

Products > 1"

{SQFTG} SOUTHWIRE{R} HALO-FLEX{TM} TC-ER-HL E75755 MASTER-DESIGN {UL} XX AWG CU 3 CDRS XHHW-2 GW 3 X XX AWG T/S XLPE/CPE 90{D}C JACKET 600V TYPE TC-ER-HL or 1000V TYPE TC-ER SUN. RES. FOR DIRECT BURIAL FT4 -40{D}C OIL RES I & II ABS RoHS-3 2015/863 COMPLIANT {YYYY} 07-KA180012-MSHA



Table 1 – Physical and Electrical Data

| Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Insul. Thickness | Diameter Over Insulation | Ground | Jacket Thickness | Approx. OD | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Min Bending Radius | Allowable Ampacity At 60°C | Allowable Ampacity 75°C | Allowable Ampacity 90°C |
|------------|--------------|---------------|---------------------|------------------|--------------------------|-----------|------------------|------------|----------------|----------------------|----------------------|--------------------|----------------------------|-------------------------|-------------------------|
| AWG | No. | strands | inch | mil | inch | No. x AWG | mil | inch | lb / 1000ft | Ω /1000ft | Ω /1000ft | inch | Amp | Amp | Amp |
| 2/0 | 3 | 324 | 0.420 | 55 | 0.536 | 3 x 10 | 80 | 1.446 | 2025 | 0.081 | 0.102 | 7.2 | 145 | 175 | 195 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.

