# 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

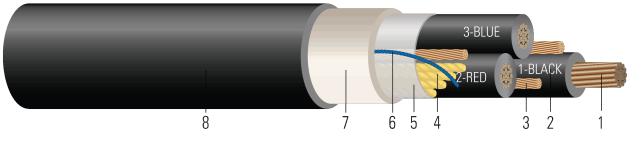


Image not to scale. See Table 1 for dimensions.

### **CONSTRUCTION:**

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

# **APPLICATIONS AND FEATURES:**

Southwire's Halo-Flex<sup>™</sup> 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 <sup>™</sup> 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



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UPDATED: Dec. 11, 2023, 9:29 p.m.UTC REVISION: 1.000.004

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

#### **SAMPLE PRINT LEGEND**:

#### Products $\leq 1''$

(SEQ FOOTAGE) SOUTHWIRE® 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® HALO-FLEX{TM} TC-ER-HL E75755 {UL} XX AWG CU 3 CDRS XHHW-2 GW 3 X XX AWG T/S XLPE/ CPE 90°C JACKET 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





UPDATED: Dec. 11, 2023, 9:29 p.m.UTC REVISION: 1.000.004

# **SPEC 45271**

# Table 1 – Physical and Electrical Data

Stock Numbe	Cond. r 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	Inductive Rectance	Min Bending Radius	Allowable Ampacity At 60°C	Allowable Ampacity 75°C
	AWG	No.	strands	inch	mil	inch	No. x AWG	mil	inch	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp
	2 AWG															
67479	9 2	3	168	0.315	45	0.409	3 x 10	80	1.171	1194	0.162	0.203	0.028	5.9	95	115

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.



