

# HALO-FLEX<sup>™</sup> CU 600/1000V XLPE Insulation Braid Shield Thermoplastic CPE-TP Jacket. XHHW-2 TC-ER-HL Halo-Flex<sup>™</sup> Type TC-ER-HL Power Cable 600 or 1000 Volt Copper Conductors, Cross Linked Polyethylene (FR-XLPE) Insulation

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

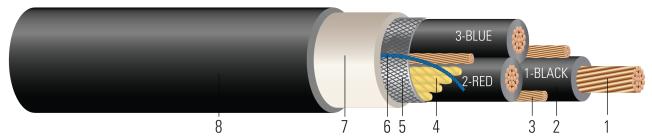


Image not to scale. See Table 1 for dimensions.

### **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. **Shield:** Tinned copper braid shield
- 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>TM</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 TM CPE jacket is made with patented SIM Technology. Cable can be installed in conduit without the aid of lubrication. PATENT www.patentsw.com. Shielded Halo-Flex<sup>TM</sup> cables can also be used for VFD (Variable Frequency Drive) applications where extra high frequencies are present.

## **SPECIFICATIONS:**

- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
   (As Applicable)
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1277 Electrical Power and Control Tray Cables
- UL 1309 Marine Shipboard Cable
- 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
- ABS American Bureau of Shipping Approved

# **SAMPLE PRINT LEGEND:**

{SQFTG} SOUTHWIRE® HALO-FLEX{TM} TC-ER-HL E75755 {UL} XX AWG CU 3 CDRS XHHW-2 GW 3 X XX AWG TCU BRAID 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







# Table 1 – Physical and Electrical Data

Stoo Numb	k Con er Siz	d. Cond. Numbe	Cond. Strands	Diameter Over Cond.	lnsul. Thickness	Diameter Over Insulation	Ground	Jacket Thickness	Approx. OD	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Min Bending Radius	Allowable Ampacity 75°C	Allowable Ampacity 90°C	Jacket Color
	AW	G No.	strands	inch	mil	inch	No. x AWG	mil	inch	lb / 1000ft	Ω /1000ft	Ω /1000ft	inch	Amp	Amp	
6695	63 1/0	3	259	0.385	58	0.501	3 x 10	84	1.409	1699	0.109	0.142	16.9	150	170	Black

All dimensions are nominal and subject to normal manufacturing tolerances

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.





<sup>♦</sup> Cable marked with this symbol is a standard stock item

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