

PantoFLEX[™] DC Power Cable 2/C CU 1000V XLPE Insulation PVC Jacket. TC-ER XHHW-2 with Green Ground

Type TC-ER Control Cable 1000 Volt Copper Conductors, Cross-Linked Polyethylene Insulation XHHW-2, Polyvinyl Chloride (PVC) Jacket, Sunlight Resistant - For Direct Burial - Silicone Free

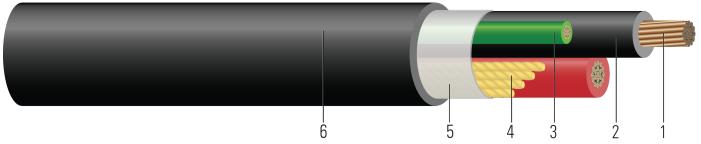


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 1. **Conductor:** Class I, flexible stranded, bare copper per ASTM B3 and B172
- 2. Insulation: Cross-Linked Polyethylene (XLPE) Type XHHW-2
- 3. **Ground:** Class I, flexible stranded, bare copper per ASTM B3 and B172 with green Cross-Linked Polyethylene (XLPE) Type XHHW-2 insulation
- 4. Fillers: Wax paper fillers added as needed for a round assembly
- 5. **Binder:** Polypropylene tape
- 6. Jacket: Black Polyvinyl Chloride (PVC)

APPLICATIONS AND FEATURES:

Southwire's 1000 Volt Type TC-ER PantoFLEX™ DC 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. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. Type (TC-ER) per NEC 336.10. Silicone free.

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 Type TC-ER Standard Power and Control Cables (1000V 14AWG and Larger)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} {UL} XXX AWG or KCMIL (XX.X{mm2}) CU 2/C TYPE TC-ER XHHW-2 CDRS GW 1 X X AWG CU GREEN INSULATED 90°C JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600V or 1000V {NOM}-ANCE







Stock # 665934 | SPEC 48050

Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Ground	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Rectance	Min Bending Radius	Allowable Ampacity 75°C	Allowable Ampacity 90°C
	AWG	No.	strands	inch	mil	No. x AWG	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp
665934	250	2	627	0.605	65	1 x 3	80	1.666	1713	2211	0.047	0.057	0.041	8.3	255	290

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.







[♦] Cable marked with this symbol is a standard stock item

^{*} Ampacity based on 2023 NEC Table 310(16): Ampacities of Insulated Conductors with Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried)

^{*} Inductive Reactance is based on non-ferrous conduit with one diameter spacing center-to-center.