# 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

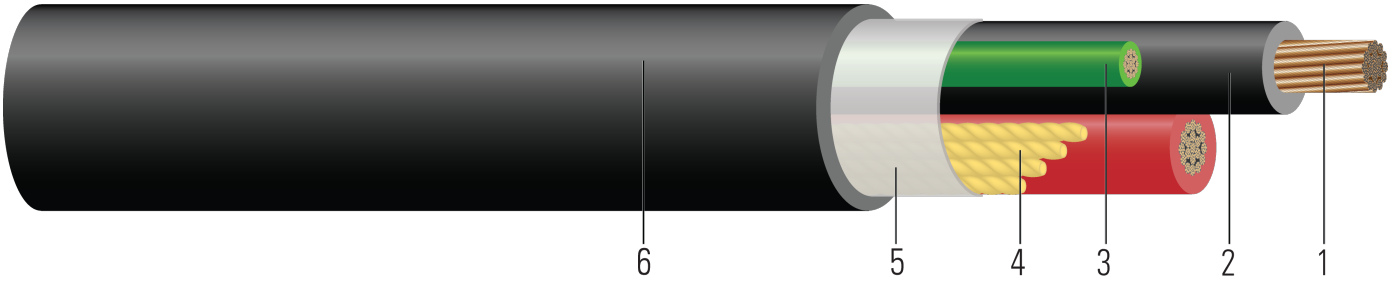



Image not to scale. See Table 1 for dimensions.

## 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 90ºC JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600V or 1000V {NOM}-ANCE


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## Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Insul. Thickness | 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 | Jacket Color |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | No. | strands | inch | mil | mil | inch | lb / 1000ft | lb / 1000ft | Ω /1000ft | Ω /1000ft | Ω/1000ft | inch | Amp | Amp | |
| 665934 | 250 | 2 | 627 | 0.605 | 65 | 80 | 1.666 | 1714 | 2210 | 0.045 | 0.056 | 0.041 | 8.3 | 255 | 290 | BK |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ 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.
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.


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