# TCU 2000V NLEPR Insulation Thermoset LSZH-TS Jacket. RHH/RHW-2

Power Cable 2000 Volt Single Conductor Copper or Tinned Copper, Ethylene Propylene Rubber (EPR) insulation RHH/RHW-2 Thermoset SOLONON® (LSZH-TS) Jacket

Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Stranded tinned copper per ASTM B33 and B8, B172, or B173
2. **Binder Tape:** Mylar tape
3. **Insulation:** Ethylene Propylene Rubber (EPR)
4. **Overall Jacket:** Cross-linked/Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS)

## APPLICATIONS AND FEATURES:

Southwire's 2000 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, 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.

## SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- ASTM B173 Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (250kcmil & Larger)
- NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways (non-emergency circuits only)
- AREMA 10.3.13 Recommended Design Criteria for Low-Smoke Halogen Free (LSHF) Polymeric Cable Jackets



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## SAMPLE PRINT LEGEND:

### AWG Sizes:

{SQFTG} SOUTHWIRE {UL} XX AWG or KCMIL TINNED CU TYPE RHH OR RHW-2 XX MILS EPR XX MILS SOLONON® ST1 FOR CT USE SUN RES 2000V {YYYY}

### Kcmil Sizes:

{SQFTG} SOUTHWIRE® E30117 {UL} XXX KCMIL RHH OR RHW-2 XX MILS NL-EPR XX MILS SOLONON® PRI/PRII -40°C FT4 ST1 FOR CT USE SUN RES 2000V --- {CSA} 156205 XXX KCMIL RW90 XX MILS NL-EPR XX MILS SOLONON® 90°C DRY 90°C WET TC-ER 2KV -40°C PRI PRII FT4-ST1 SR

### Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Strand Count | Diameter Over Conductor | Min. Avg. Insul. Thickness | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight |
|---|---|---|---|---|---|---|---|---|
| | AWG/ Kcmil | No. of Strands | inch | mil | mil | inch | lb/1000ft | lb/1000ft |
| 672185 | 1/0 | 19 | 0.362 | 65 | 45 | 0.598 | 326 | 428 |
| TBA | 2/0 | 19 | 0.405 | 65 | 45 | 0.625 | 410 | 511 |
| TBA | 2/0 | 259 | 0.445 | 65 | 45 | 0.678 | 418 | 538 |
| TBA | 3/0 | 19 | 0.456 | 65 | 45 | 0.680 | 518 | 620 |
| TBA | 4/0 | 19 | 0.512 | 65 | 45 | 0.732 | 653 | 775 |
| TBA | 4/0 | 133 | 0.598 | 65 | 65 | 0.873 | 693 | 883 |
| TBA | 250 | 37 | 0.558 | 75 | 65 | 0.782 | 771 | 891 |
| 664278 | 250 | 259 | 0.610 | 105 | 65 | 0.972 | 811 | 1069 |
| TBA | 350 | 37 | 0.661 | 75 | 65 | 0.945 | 1081 | 1265 |
| TBA | 500 | 37 | 0.789 | 75 | 65 | 1.069 | 1544 | 1779 |
| 649417 | 500 | 259 | 0.890 | 105 | 65 | 1.252 | 1579 | 1924 |
| 568798 | 750 | 61 | 0.968 | 90 | 65 | 1.297 | 2316 | 2650 |
| 643881 | 750 | 127 | 0.968 | 90 | 65 | 1.300 | 2315 | 2652 |
| TBA | 1000 | 61 | 1.117 | 90 | 65 | 1.427 | 3088 | 3440 |
| 653132 | 1000 | 127 | 1.118 | 90 | 65 | 1.450 | 3088 | 3468 |
| 551380 | 2000 | 127 | 1.583 | 115 | 95 | 2.031 | 6175 | 6903 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

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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## Table 2 – Electrical and Engineering Data

| Stock Number | Cond. Size | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity At 75°C | Allowable Ampacity At 90°C |
|---|---|---|---|---|---|---|---|---|
| | AWG/ Kcmil | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp | Amp |
| 672185 | 1/0 | 4.7 | 845 | 0.102 | 0.122 | 0.044 | 150 | 170 |
| TBA | 2/0 | 5.0 | 1065 | 0.081 | 0.097 | 0.043 | 175 | 195 |
| TBA | 2/0 | 5.4 | 1065 | 0.081 | 0.097 | 0.043 | 175 | 195 |
| TBA | 3/0 | 5.4 | 1342 | 0.064 | 0.078 | 0.042 | 200 | 225 |
| TBA | 4/0 | 5.9 | 1693 | 0.051 | 0.062 | 0.041 | 230 | 260 |
| TBA | 4/0 | 7.0 | 1693 | 0.051 | 0.062 | 0.041 | 230 | 260 |
| TBA | 250 | 6.3 | 2000 | 0.043 | 0.053 | 0.041 | 255 | 290 |
| 664278 | 250 | 7.8 | 2000 | 0.043 | 0.053 | 0.041 | 255 | 290 |
| TBA | 350 | 7.6 | 2800 | 0.031 | 0.039 | 0.040 | 310 | 350 |
| TBA | 500 | 8.6 | 4000 | 0.022 | 0.029 | 0.039 | 380 | 430 |
| 649417 | 500 | 10.0 | 4000 | 0.022 | 0.029 | 0.039 | 380 | 430 |
| 568798 | 750 | 10.2 | 6000 | 0.014 | 0.022 | 0.038 | 475 | 535 |
| 643881 | 750 | 10.4 | 6000 | 0.014 | 0.022 | 0.038 | 475 | 535 |
| TBA | 1000 | 11.4 | 8000 | 0.011 | 0.018 | 0.037 | 545 | 615 |
| 653132 | 1000 | 11.6 | 8000 | 0.011 | 0.018 | 0.037 | 545 | 615 |
| 551380 | 2000 | 16.0 | 10000 | 0.005 | 0.016 | 0.034 | 665 | 750 |

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

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



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