



## 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
2. **Binder Tape:** Mylar Tape
3. **Insulation:** Ethylene Propylene Rubber (EPR)
4. **Overall Jacket:** Cross-linked/Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS) Jacket

### 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





**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	Cond. Number	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	0	19	0.362	65	45	0.598	326	428
TBA	2/0	1	19	0.405	65	45	0.625	410	511
TBA	2/0	1	259	0.445	65	45	0.678	418	538
TBA	3/0	1	19	0.456	65	45	0.680	518	620
TBA	4/0	1	19	0.512	65	45	0.732	653	775
TBA	4/0	1	133	0.598	65	65	0.873	693	883
TBA	250	1	37	0.558	75	65	0.782	771	891
664278	250	1	259	0.610	105	65	0.972	811	1069
TBA	350	1	37	0.661	75	65	0.945	1081	1265
TBA	500	1	37	0.789	75	65	1.069	1544	1779
560305	500	1	259	0.850	75	65	1.150	1548	1820
568798	750	1	61	0.968	90	65	1.297	2316	2650
643881	750	1	127	0.968	90	65	1.300	2315	2652
TBA	1000	1	61	1.117	90	65	1.427	3088	3440
653132	1000	1	127	1.118	90	65	1.450	3088	3468
551380	2000	1	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.





**Table 2 – Electrical and Engineering Data**

Stock Number	Cond. Size	Cond. Number	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	0	4.7	845	0.102	0.122	0.044	150	170
TBA	2/0	1	5.0	1065	0.081	0.097	0.043	175	195
TBA	2/0	1	5.4	1065	0.081	0.097	0.043	175	195
TBA	3/0	1	5.4	1342	0.064	0.078	0.042	200	225
TBA	4/0	1	5.9	1693	0.051	0.062	0.041	230	260
TBA	4/0	1	7.0	1693	0.051	0.062	0.041	230	260
TBA	250	1	6.3	2000	0.043	0.053	0.041	255	290
664278	250	1	7.8	2000	0.043	0.053	0.041	255	290
TBA	350	1	7.6	2800	0.031	0.039	0.040	310	350
TBA	500	1	8.6	4000	0.022	0.029	0.039	380	430
560305	500	1	9.2	4000	0.022	0.029	0.039	380	430
568798	750	1	10.2	6000	0.014	0.022	0.038	475	535
643881	750	1	10.4	6000	0.014	0.022	0.038	475	535
TBA	1000	1	11.4	8000	0.011	0.018	0.037	545	615
653132	1000	1	11.6	8000	0.011	0.018	0.037	545	615
551380	2000	1	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.

