CU 2000V NLEPR/CPE RW90 Traction Cable

2000 Volt Single Conductor Copper, No Lead Ethylene Propylene Rubber(NL-EPR) insulation RW90 Chlorinated Polyethylene (CPE) Jacket



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Compressed stranded bare or tinned copper per ASTM B3 or B33 and B8. Center strand embossed with "Southwire, Year, Plant" when required
2. **Binder Tape:** Mylar Tape
3. **Insulation:** No Lead Ethylene Propylene Rubber (EPR) Type RW90
4. **Overall Jacket:** Thermoset Chlorinated Polyethylene (CPE) Jacket

APPLICATIONS AND FEATURES:

Southwire 2000V EPR/CPE Cable is suited for use in mass transit and general industry applications where flexibility, fire resistance, and low smoke generation are a concern. May be installed in wet or dry locations in cable trays or raceways. These cables are capable of operating continuously at a conductor temperature not in excess of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions. Resistance to moisture and most oils, acids, and alkalis with an overall durable thermoset CPE jacket. Alternate constructions available upon request.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA C22.2 No.230 Tray Cables - Rated TC-ER
- CSA SUN RES - for Sunlight Resistant rating
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- Oil Res I & Sun Res
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test (1/0 and Larger)

SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE® LL90458 {CSA} XXX KCMIL CU TYPE RW90 -40°C XX MILS EPR XX MILS CPE FT4 PR I PR II SUN RES OIL RES TC-ER 2000V YEAR OF MANUFACTURE

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	Overall Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/ Kcmil	No.	mil		mil	inch	lb/ 1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
TBA	1/0	19	65	BK	45	0.582	375	2.3	844	0.102	0.127	0.044	170
TBA	2/0	19	65	BK	45	0.625	465	2.5	1064	0.082	0.102	0.043	195
TBA	3/0	19	65	BK	45	0.676	578	2.7	1342	0.064	0.079	0.042	225
TBA	4/0	19	65	BK	45	0.732	719	2.9	1692	0.051	0.063	0.041	260
TBA	250	37	75	BK	65	0.838	856	3.4	2000	0.043	0.053	0.041	290
TBA	350	37	75	BK	65	0.941	1179	3.8	2800	0.031	0.039	0.04	350
TBA	500	37	75	BK	65	1.069	1659	5.3	4000	0.021	0.027	0.039	430
668910*	500	91	140	BK		1.093	1803	5.5	4000	0.021	0.027	0.039	430
669881	750	61	155	BK		1.302	2658	6.5	6000	0.014	0.019	0.038	535
TBA	1000	61	90	BK	65	1.427	3280	7.1	8000	0.011	0.016	0.037	615
TBA	1500	91	115	BK	95	1.79	4934	9	12000	0.007	0.013	0.035	705
TBA	2000	127	115	BK	95	2.003	6521	12	16000	0.005	0.011	0.034	750

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
[1]Thicknesses reported as minimum average
* Bare copper
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 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	Jacket Thickness[1]	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
	AWG/ Kcmil	No.	mm		mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
TBA	1/0	19	1.65	BK	1.14	14.78	558	58.42	3756	0.33	0.42	0.1444	170
TBA	2/0	19	1.65	BK	1.14	15.88	692	63.50	4735	0.27	0.33	0.1411	195
TBA	3/0	19	1.65	BK	1.14	17.17	860	68.58	5972	0.21	0.26	0.1378	225
TBA	4/0	19	1.65	BK	1.14	18.59	1070	73.66	7529	0.17	0.21	0.1345	260
TBA	250	37	1.91	BK	1.65	21.29	1274	86.36	8900	0.14	0.17	0.1345	290
TBA	350	37	1.91	BK	1.65	23.90	1755	96.52	12460	0.10	0.13	0.1312	350
TBA	500	37	1.91	BK	1.65	27.15	2469	134.62	17800	0.07	0.09	0.1280	430
668910	500	91	3.56	BK		27.76	2683	139.70	17800	0.07	0.09	0.1280	430
669881	750	61	3.94	BK		33.07	3956	165.10	26700	0.05	0.06	0.1247	535
TBA	1000	61	2.29	BK	1.65	36.25	4881	180.34	35600	0.04	0.05	0.1214	615
TBA	1500	91	2.92	BK	2.41	45.47	7343	228.60	53400	0.02	0.04	0.1148	705
TBA	2000	127	2.92	BK	2.41	50.88	9704	304.80	71200	0.02	0.04	0.1115	750

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