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	Black	45	0.541	391	2.1	844	0.102	0.122	0.044	170
TBA	2/0	19	65	Black	45	0.585	482	2.3	1064	0.081	0.097	0.043	195
TBA	3/0	19	65	Black	45	0.636	598	2.5	1342	0.064	0.078	0.042	225
TBA	4/0	19	65	Black	45	0.692	741	2.7	1692	0.051	0.062	0.041	260
TBA	250	37	75	Black	65	0.768	884	3.1	2000	0.043	0.053	0.041	290
TBA	350	37	75	Black	65	0.871	1212	3.4	2800	0.031	0.039	0.040	350
TBA	500	37	75	Black	65	0.999	1697	3.9	4000	0.022	0.029	0.039	430
668910*	500	91	75	Black	65	1.093	1802	5.4	4000	0.022	0.029	0.039	430
669881	750	61	90	Black	65	1.302	2658	6.5	6000	0.014	0.022	0.038	535
TBA	1000	61	90	Black	65	1.357	3330	6.7	8000	0.011	0.018	0.037	615
TBA	1500	91	115	Black	95	1.650	4977	8.2	12000	0.007	0.016	0.035	705
TBA	2000	127	115	Black	95	1.863	6569	9.3	16000	0.005	0.016	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	Black	1.14	13.74	582	53.34	3756	0.33	0.40	0.1444	170
TBA	2/0	19	1.65	Black	1.14	14.86	717	58.42	4735	0.27	0.32	0.1411	195
TBA	3/0	19	1.65	Black	1.14	16.15	890	63.50	5972	0.21	0.26	0.1378	225
TBA	4/0	19	1.65	Black	1.14	17.58	1103	68.58	7529	0.17	0.20	0.1345	260
TBA	250	37	1.91	Black	1.65	19.51	1316	78.74	8900	0.14	0.17	0.1345	290
TBA	350	37	1.91	Black	1.65	22.12	1804	86.36	12460	0.10	0.13	0.1312	350
TBA	500	37	1.91	Black	1.65	25.37	2525	99.06	17800	0.07	0.10	0.1280	430
668910	500	91	1.91	Black	1.65	27.76	2682	137.16	17800	0.07	0.10	0.1280	430
669881	750	61	2.29	Black	1.65	33.07	3956	165.10	26700	0.05	0.07	0.1247	535
TBA	1000	61	2.29	Black	1.65	34.47	4956	170.18	35600	0.04	0.06	0.1214	615
TBA	1500	91	2.92	Black	2.41	41.91	7407	208.28	53400	0.02	0.05	0.1148	705
TBA	2000	127	2.92	Black	2.41	47.32	9776	236.22	71200	0.02	0.05	0.1115	750

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