

DURAGROUND 1000V RW90 CSA FT4 TRAY RATED GROUND CABLE

Single Copper Conductors, XLPE Insulation, Sunlight Resistant, 1000V 90C MAX, -40C MIN, Gasoline & Oil Resistant



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type RW90

APPLICATIONS AND FEATURES:

Suitable for installation in Cable Trays and Underground Duct Banks- As per CE Code limitations (see Rule 12-2202) for grounding and bonding applications.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables Type RW90
- CSA C22.2 No.230 Tray Cables - Rated TC-ER (1/0 AWG and Larger)
- CSA LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- CSA SUN RES - for Sunlight Resistant rating
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- FT1 Flame Test (1,706 BTU/Hr nominal - Vertical Wire Flame Test)
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

E30117 MASTER-DESIGN {UL} XXXX KCMIL CU RHH-RHW-2 1000V FOR CT USE FT4 SR PR I OR PR II 90{D}C WET OR DRY -40{D}C --- {CSA} LL90458 XXXX KCMIL (XXX{mm²}) RW90 1000V TC FT4 SR -40{D}C XLPE --- RoHS {MMM/DD/YYYY}



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Diameter Over Conductor	Insul. Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Phase Short Circuit Current @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/Kcmil	No.	inch	mil	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
TBA	8	7	0.139	60	0.259	61	1	132	0.652	0.815	0.036	3745	55
TBA	6	7	0.174	60	0.294	107	1.2	210	0.411	0.514	0.036	5966	75
TBA	4	7	0.221	60	0.341	161	1.4	334	0.258	0.323	0.034	9491	95
TBA	2	7	0.277	60	0.403	245	1.6	531	0.162	0.203	0.032	15089	130
TBA	1/0	19	0.360	80	0.52	396	2.1	845	0.102	0.128	0.028	24011	170
649042◇	2/0	19	0.404	80	0.574	488	2.3	1065	0.081	0.102	0.027	30264	195
TBA	3/0	19	0.454	80	0.614	603	2.5	1342	0.064	0.081	0.027	38154	225
649044◇	4/0	19	0.510	80	0.666	745	2.7	1693	0.051	0.064	0.026	48114	260
TBA	250	37	0.558	95	0.738	878	3	2000	0.043	0.055	0.027	56845	290
649055◇	350	37	0.661	95	0.841	1219	3.4	2800	0.031	0.040	0.026	79583	350
649057◇	500	37	0.789	95	0.966	1705	3.9	4000	0.022	0.029	0.025	113690	430
649059◇	750	61	0.968	110	1.119	2548	5.9	6000	0.014	0.020	0.025	170535	535
649062◇	1000	61	1.117	110	1.348	3353	6.7	8000	0.011	0.017	0.025	227380	615

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

†Ampacities derived from the 2015 Canadian Electrical Code - Table 1 - For single conductor in free air and based on an ambient temperature of 30°C. - Table 2 - for Cable in Conduit. Not more than 3 aluminum conductors in a conduit and based on an ambient temperature of 30°C.

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Strand	Diameter Over Conductor	Insul. Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Phase Short Circuit Current @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/Kcmil	No.	mm	mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp	Amp
TBA	8	7	3.53	1.52	6.58	91	25.40	587	2.1391	2.67	0.1181	3745	55
TBA	6	7	4.42	1.52	7.47	159	30.48	935	1.3484	1.69	0.1181	5966	75
TBA	4	7	5.61	1.52	8.66	240	35.56	1486	0.8465	1.06	0.1115	9491	95
TBA	2	7	7.04	1.52	10.24	365	40.64	2363	0.5315	0.67	0.1050	15089	130
TBA	1/0	19	9.14	2.03	13.21	589	53.34	3760	0.3346	0.42	0.0919	24011	170
649042◇	2/0	19	10.26	2.03	14.58	726	58.42	4739	0.2657	0.33	0.0886	30264	195
TBA	3/0	19	11.53	2.03	15.60	897	63.50	5972	0.2100	0.27	0.0886	38154	225
649044◇	4/0	19	12.95	2.03	16.92	1109	68.58	7534	0.1673	0.21	0.0853	48114	260
TBA	250	37	14.17	2.41	18.75	1307	76.20	8900	0.1411	0.18	0.0886	56845	290
649055◇	350	37	16.79	2.41	21.36	1814	86.36	12460	0.1017	0.13	0.0853	79583	350
649057◇	500	37	20.04	2.41	24.54	2537	99.06	17800	0.0722	0.10	0.0820	113690	430
649059◇	750	61	24.59	2.79	28.42	3792	149.86	26700	0.0459	0.07	0.0820	170535	535
649062◇	1000	61	28.37	2.79	34.24	4990	170.18	35600	0.0361	0.06	0.0820	227380	615

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†Ampacities derived from the 2015 Canadian Electrical Code - Table 1 - For single conductor in free air and based on an ambient temperature of 30°C. - Table 2 - for Cable in Conduit. Not more than 3 aluminum conductors in a conduit and based on an ambient temperature of 30°C.

