DURATRAY™ CU 1000V XLPE Insulation. RHH/RHW-2/RW90 UL & CSA

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

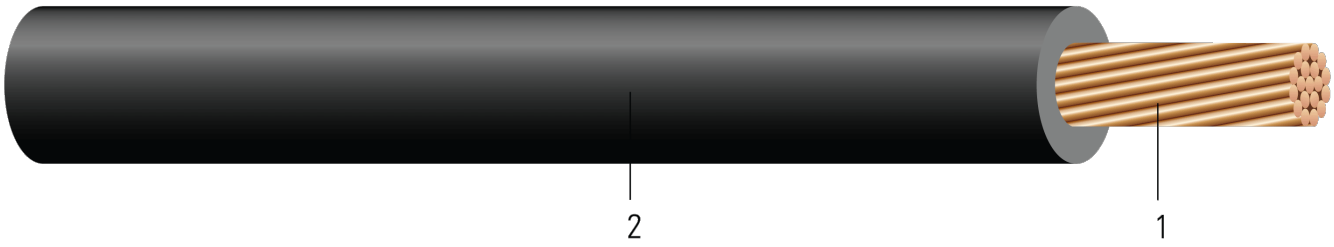

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

APPLICATIONS AND FEATURES:

Suitable for installation in Cable Trays, Underground Duct Banks - As per CE Code limitations. Standard colour is black. Some sizes may be availabe in white, red, blue, yellow, brown, orange or grey. Green Duraground™ also available.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA C22.2 No.230 Tray Cables - Rated TC-ER (1/0 AWG and Larger)
- CSA C22.2 No. 2556 & No. 0.3 Wire and Cable Test Methods
- CSA LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- CSA SUN RES - for Sunlight Resistant rating
- CSA ST1 Smoke Test - marked FT4-ST1 (1/0 and Larger)
- Oil Res I & Sun Res

SAMPLE PRINT LEGEND:

{SQFTG} E30117 MASTER-DESIGN {UL} XXX AWG 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 4/0 AWG (107{MM2}) RW90 1000V TC FT4 SR -40{D}C XLPE --- RoHS

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Insul. 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	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
TBA	8	7	60	0.262	72	1	132	0.653	0.81	0.052	55
TBA	6	7	60	0.298	106	1.2	209	0.411	0.51	0.051	75
TBA	4	7	60	0.345	159	1.4	333	0.258	0.32	0.048	95
TBA	2	7	60	0.403	241	1.6	530	0.162	0.201	0.045	130
694140	1/0	19	80	0.528	394	2.1	844	0.102	0.127	0.044	170
649089◊	2/0	19	80	0.572	486	2.3	1064	0.082	0.102	0.043	195
649149	3/0	19	80	0.622	601	2.5	1342	0.064	0.079	0.042	225
649098◊	4/0	19	80	0.666	744	2.7	1692	0.051	0.063	0.041	260
TBA	250	37	95	0.748	882	3	2000	0.043	0.053	0.041	290
649108◊	350	37	95	0.841	1216	3.4	2800	0.031	0.039	0.04	350
649047◊	500	37	95	0.966	1703	3.9	4000	0.021	0.027	0.039	430
649049◊	750	61	110	1.2	2545	6	6000	0.014	0.019	0.038	535
649131◊	1000	61	110	1.349	3349	6.7	8000	0.011	0.016	0.037	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.
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	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	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
TBA	8	7	1.52	6.65	107	25.40	587	2.14	2.66	0.1706	55
TBA	6	7	1.52	7.57	158	30.48	930	1.35	1.67	0.1673	75
TBA	4	7	1.52	8.76	237	35.56	1482	0.85	1.05	0.1575	95
TBA	2	7	1.52	10.24	359	40.64	2359	0.53	0.66	0.1476	130
694140	1/0	19	2.03	13.41	586	53.34	3756	0.33	0.42	0.1444	170
649089◊	2/0	19	2.03	14.53	723	58.42	4735	0.27	0.33	0.1411	195
649149	3/0	19	2.03	15.80	894	63.50	5972	0.21	0.26	0.1378	225
649098◊	4/0	19	2.03	16.92	1107	68.58	7529	0.17	0.21	0.1345	260
TBA	250	37	2.41	19.00	1313	76.20	8900	0.14	0.17	0.1345	290
649108◊	350	37	2.41	21.36	1810	86.36	12460	0.10	0.13	0.1312	350
649047◊	500	37	2.41	24.54	2534	99.06	17800	0.07	0.09	0.1280	430
649049◊	750	61	2.79	30.48	3787	152.40	26700	0.05	0.06	0.1247	535
649131◊	1000	61	2.79	34.26	4984	170.18	35600	0.04	0.05	0.1214	615

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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 3- Stock Code by Color

Size (AWG / kcmil)	Black	White	Red	Blue	Yellow	Brown	Orange	Grey
1/0	694140	649133	649135	649138	TBA	TBA	TBA	TBA
2/0	649089	649082	649084	649086	TBA	TBA	TBA	TBA
3/0	649149	649142	649144	649147	TBA	TBA	TBA	TBA
4/0	649098	649091	649093	649096	TBA	TBA	TBA	TBA
250Kcmil	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
350Kcmil	649108	649101	649104	649106	TBA	TBA	TBA	TBA
500Kcmil	649047	649112	649114	649116	TBA	TBA	TBA	TBA
750Kcmil	649049	649118	649120	649122	TBA	TBA	TBA	TBA
1000Kcmil	649131	649124	649126	649128	TBA	TBA	TBA	TBA

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