DURATRAY™ CU 600V XLPE Insulation. RHH/RHW-2/RW90 UL & CSA

Single Copper Conductors, XLPE Insulation, Sunlight Resistant, 600V, 90ºC MAX, -40ºC Min for Cold Bend and Impact Rating, Gasoline & Oil Resistant

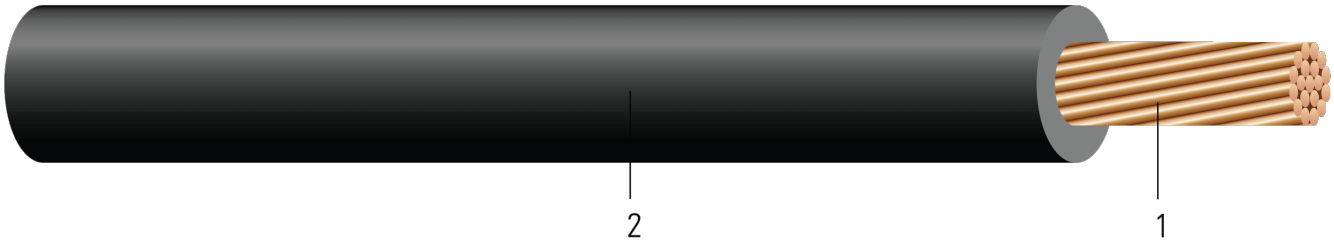


Image not to scale. See Table 1 for dimensions.

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 (see Rule 12-2202) for grounding and bonding applications. Standard colour is black. Some sizes may be availabe in white, red, blue, yellow, brown, orange or grey. -40ºC min for cold bend and impact rating. 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 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:

SOUTHWIRE E30117 {UL} XX AWG CU RHH-RHW-2 600V FOR CT USE FT4 SR PR I OR PR II 90°C WET OR DRY -40°C --- {CSA} LL90458 XX AWG (XX.Xmm2) RW90 600V FT4 SR -40°C XLPE --- RoHS {MM/DD/YYYY}

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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
649069	6	7	60	0.304	109	1.2	209	0.411	0.51	0.051	75
457921	4	7	60	0.351	163	1.4	333	0.258	0.32	0.048	95
649077	2	7	60	0.409	246	1.6	530	0.162	0.201	0.045	130
649139	1/0	19	80	0.528	396	2.1	844	0.102	0.127	0.044	170
649136	1/0	19	80	0.528	396	2.1	844	0.102	0.127	0.044	170
649134	1/0	19	80	0.528	396	2.1	844	0.102	0.127	0.044	170
649132	1/0	19	80	0.528	396	2.1	844	0.102	0.127	0.044	170
649088◊	2/0	19	80	0.572	488	2.3	1064	0.082	0.102	0.043	195
649085◊	2/0	19	80	0.572	488	2.3	1064	0.082	0.102	0.043	195
649083◊	2/0	19	80	0.572	488	2.3	1064	0.082	0.102	0.043	195
649081◊	2/0	19	80	0.572	488	2.3	1064	0.082	0.102	0.043	195
649148	3/0	19	80	0.622	603	2.5	1342	0.064	0.079	0.042	225
649141	3/0	19	80	0.622	603	2.5	1342	0.064	0.079	0.042	225
649143	3/0	19	80	0.622	603	2.5	1342	0.064	0.079	0.042	225
649146	3/0	19	80	0.622	603	2.5	1342	0.064	0.079	0.042	225
649097◊	4/0	19	80	0.666	745	2.7	1692	0.051	0.063	0.041	260
649090◊	4/0	19	80	0.666	745	2.7	1692	0.051	0.063	0.041	260
649092◊	4/0	19	80	0.666	745	2.7	1692	0.051	0.063	0.041	260
649094◊	4/0	19	80	0.666	745	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
649107◊	350	37	95	0.841	1219	3.4	2800	0.031	0.039	0.04	350
649109◊	350	37	95	0.841	1219	3.4	2800	0.031	0.039	0.04	350
649102◊	350	37	95	0.841	1219	3.4	2800	0.031	0.039	0.04	350
649105◊	350	37	95	0.841	1219	3.4	2800	0.031	0.039	0.04	350
649115◊	500	37	95	0.966	1706	3.9	4000	0.021	0.027	0.039	430
649113◊	500	37	95	0.966	1706	3.9	4000	0.021	0.027	0.039	430
649110◊	500	37	95	0.966	1706	3.9	4000	0.021	0.027	0.039	430
649045◊	500	37	95	0.966	1706	3.9	4000	0.021	0.027	0.039	430
649048◊	750	61	110	1.2	2550	6	6000	0.014	0.019	0.038	535
649119◊	750	61	110	1.2	2550	6	6000	0.014	0.019	0.038	535
649121◊	750	61	110	1.2	2550	6	6000	0.014	0.019	0.038	535
649117◊	750	61	110	1.2	2550	6	6000	0.014	0.019	0.038	535
649130◊	1000	61	110	1.349	3354	6.7	8000	0.011	0.016	0.037	615
649123◊	1000	61	110	1.349	3354	6.7	8000	0.011	0.016	0.037	615
649125◊	1000	61	110	1.349	3354	6.7	8000	0.011	0.016	0.037	615
649127◊	1000	61	110	1.349	3354	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

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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.
- 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.

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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
649069	6	7	1.52	7.72	162	30.48	930	1.35	1.67	0.1673	75
457921	4	7	1.52	8.92	243	35.56	1482	0.85	1.05	0.1575	95
649077	2	7	1.52	10.39	366	40.64	2359	0.53	0.66	0.1476	130
649139	1/0	19	2.03	13.41	589	53.34	3756	0.33	0.42	0.1444	170
649136	1/0	19	2.03	13.41	589	53.34	3756	0.33	0.42	0.1444	170
649134	1/0	19	2.03	13.41	589	53.34	3756	0.33	0.42	0.1444	170
649132	1/0	19	2.03	13.41	589	53.34	3756	0.33	0.42	0.1444	170
649088◊	2/0	19	2.03	14.53	726	58.42	4735	0.27	0.33	0.1411	195
649085◊	2/0	19	2.03	14.53	726	58.42	4735	0.27	0.33	0.1411	195
649083◊	2/0	19	2.03	14.53	726	58.42	4735	0.27	0.33	0.1411	195
649081◊	2/0	19	2.03	14.53	726	58.42	4735	0.27	0.33	0.1411	195
649148	3/0	19	2.03	15.80	897	63.50	5972	0.21	0.26	0.1378	225
649141	3/0	19	2.03	15.80	897	63.50	5972	0.21	0.26	0.1378	225
649143	3/0	19	2.03	15.80	897	63.50	5972	0.21	0.26	0.1378	225
649146	3/0	19	2.03	15.80	897	63.50	5972	0.21	0.26	0.1378	225
649097◊	4/0	19	2.03	16.92	1109	68.58	7529	0.17	0.21	0.1345	260
649090◊	4/0	19	2.03	16.92	1109	68.58	7529	0.17	0.21	0.1345	260
649092◊	4/0	19	2.03	16.92	1109	68.58	7529	0.17	0.21	0.1345	260
649094◊	4/0	19	2.03	16.92	1109	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
649107◊	350	37	2.41	21.36	1814	86.36	12460	0.10	0.13	0.1312	350
649109◊	350	37	2.41	21.36	1814	86.36	12460	0.10	0.13	0.1312	350
649102◊	350	37	2.41	21.36	1814	86.36	12460	0.10	0.13	0.1312	350
649105◊	350	37	2.41	21.36	1814	86.36	12460	0.10	0.13	0.1312	350
649115◊	500	37	2.41	24.54	2539	99.06	17800	0.07	0.09	0.1280	430
649113◊	500	37	2.41	24.54	2539	99.06	17800	0.07	0.09	0.1280	430
649110◊	500	37	2.41	24.54	2539	99.06	17800	0.07	0.09	0.1280	430
649045◊	500	37	2.41	24.54	2539	99.06	17800	0.07	0.09	0.1280	430
649048◊	750	61	2.79	30.48	3795	152.40	26700	0.05	0.06	0.1247	535
649119◊	750	61	2.79	30.48	3795	152.40	26700	0.05	0.06	0.1247	535
649121◊	750	61	2.79	30.48	3795	152.40	26700	0.05	0.06	0.1247	535
649117◊	750	61	2.79	30.48	3795	152.40	26700	0.05	0.06	0.1247	535
649130◊	1000	61	2.79	34.26	4991	170.18	35600	0.04	0.05	0.1214	615
649123◊	1000	61	2.79	34.26	4991	170.18	35600	0.04	0.05	0.1214	615
649125◊	1000	61	2.79	34.26	4991	170.18	35600	0.04	0.05	0.1214	615
649127◊	1000	61	2.79	34.26	4991	170.18	35600	0.04	0.05	0.1214	615

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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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.
- 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.

Stock Codes and Colors

Size	Black	White	Red	Blue	Yellow	Brown	Orange	Grey
1/0	649139	649132	649134	649136	TBA	TBA	TBA	TBA
2/0	649088	649081	649083	649085	TBA	TBA	TBA	TBA
3/0	649148	649141	649143	649146	TBA	TBA	TBA	TBA
4/0	649097	649090	649092	649094	TBA	TBA	TBA	TBA
250Kcmil	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
350Kcmil	649107	649109	649102	649105	TBA	TBA	TBA	TBA
500Kcmil	649045	649110	649113	649115	TBA	TBA	TBA	TBA
750Kcmil	649048	649117	649119	649121	TBA	TBA	TBA	TBA
1000Kcmil	649130	649123	649125	649127	TBA	TBA	TBA	TBA

◇ Cable marked with this symbol is a standard stock item

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