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

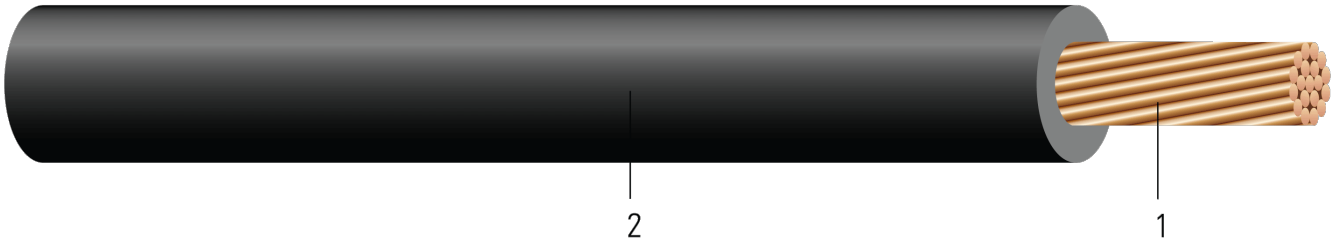


Image not to scale. See Table 1 for dimensions.

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}

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand	Insul. Thickness	Insulation Color	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
649113◊	500	1	37	95	RD	0.966	1706	3.9	4000	0.021	0.027	0.039	430

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

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UPDATED: April 15, 2025, 10:28 p.m.UTC REVISION: 1.000.005

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.

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Strand	Insul. Thickness	Insulation Color	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
649113◊	500	1	37	2.41	RD	24.54	2539	99.06	17800	0.07	0.09	0.1280	430

All dimensions are nominal and subject to normal manufacturing tolerances
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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

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