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

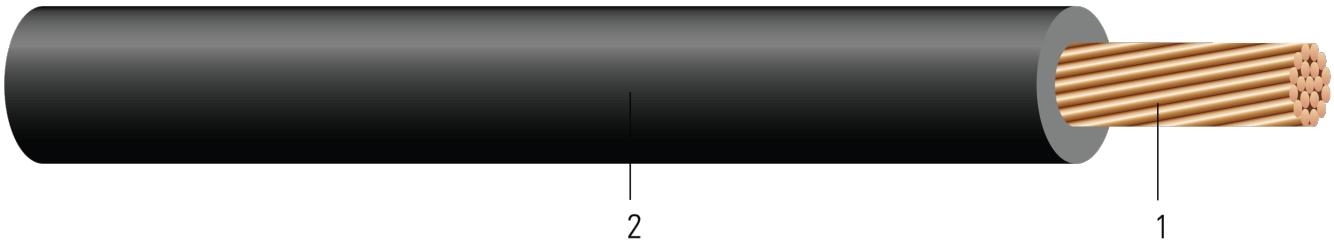


Image not to scale. See Table 1 for dimensions.

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

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
649047◊	500	1	37	95	BK	0.966	1703	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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

UPDATED: March 14, 2025, 11:56 a.m.UTC REVISION: 1.000.003

†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	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
649047◊	500	1	37	2.41	BK	24.54	2534	99.06	17800	0.07	0.09	0.1280	430

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 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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved