

1/C CU 1000V RWU90

Single Copper Conductors, XLPE Insulation, 1000V / -40°C MIN, 90°C MAX, Sunlight Resistant

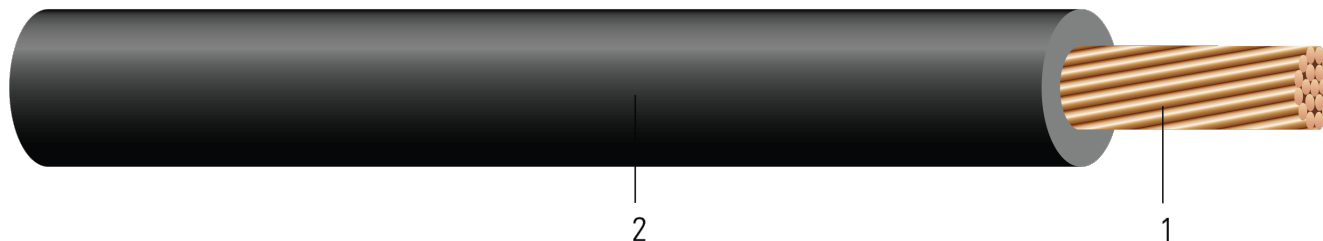


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

APPLICATIONS AND FEATURES:

Southwire's RWU90 is designed for direct earth burial (with protection as required by the inspecting authority). For service entrance above or below ground. The minimum recommended installation temperature is minus 40°C (with suitable handling procedures). Maximum conductor temperature is 90°C. Note: Standard black is sunlight resistant and marked "SR". Standard coloured insulation is not sunlight resistant.

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 SUN RES - for Sunlight Resistant rating
- CSA AWM I A/B FT1

SAMPLE PRINT LEGEND:

SOUTHWIRE{R} MASTER-DESIGN LL90458 {CSA} XXX AWG (XXX{mm²}) CU RWU90 XLPE 1000 VOLTS -40{D}C SR

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 Air 90°C†	Allowable Ampacity In Raceway 90°C†
	AWG/ Kcmil	No.	inch	mil	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
556378	1	19	0.321	95	0.512	311	2.1	670	0.129	0.161	0.032	19029	220	145

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 Air 90° C†	Allowable Ampacity In Raceway 90°C†
	AWG/Kcmil	No.	mm	mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp	Amp	Amp
556378	1	19	8.15	2.41	13.00	463	53.34	2982	0.4232	0.53	0.1050	19029	220	145

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.

Color Code

Cond. Size (Strand)	Stock Number (Color)								
	Green	White	Red	Blue	Yellow	Orange	Brown	Gray	Purple
14 (7)	578364	563253	646740	647607	566577				
12 (7)	556980	556982	556981	556600	580822	556601	556602	556603	556604
10 (7)	556598	556984	556986	556987	579338				
6 (7)	604517	604516	587595						
3 (7)	585016								
1/0 (19)		557008							
2/0 (19)	578090	557010							
3/0 (19)		557011							
4/0 (19)	583440	557012							

