Royal® SUPER EXCELENE ® WELDING CABLE UL. Silicone Free

UL Listed 600 Volt -50°C to 90°C Oil Resistant Premium Grade Orange CPE Jacket.

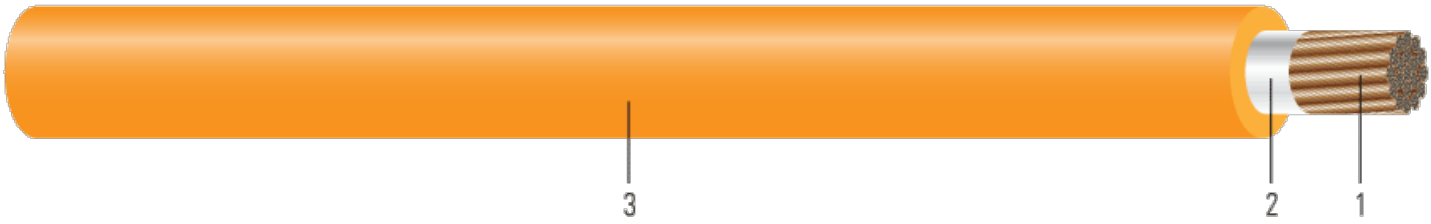

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Annealed rope-stranded Class M, bare copper conductor as per ASTM B-3. 34 AWG rope lay strand per ASTM B-172.
2. **Separator:** Paper separator for ease of stripability
3. **Insulation:** CPE , Orange

APPLICATIONS AND FEATURES:

SOUTHWIRE Super Excelene welding cable designed for use on welding leads from the secondary side of the power source, typical for arc welders. Extra flexible lead cable, used on electrode to welder unit, battery cables and temporary or permanent lead cables. A premium-grade -50°C to 90°C Orange CPE jacket is extruded onto the cable per ASTM D-4313. Provides superior flexibility and outstanding cut, abrasion and slag resistance. Resistant to oils, solvents, water, weather and ozone.

SPECIFICATIONS:

- UL Listed
- RoHS Compliant Lead-Free, Silicone-Free, Halogen Free

SAMPLE PRINT LEGEND:

SOUTHWIRE® ROYAL® SUPER EXCELENE® XX AWG (XX.XXmm2) WELDING CABLE E308663 (UL) 600V -50C TO +90C OIL RESISTANT -- MADE IN USA --Sequential Footage Marking--

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity	Insul. Color
	AWG/Kcmil	No.	No.	mil	inch	lb/1000ft	Amp	
647658	1	1	2090	90	0.535	348	220	OE

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Ampacities are based on TABLE 400.5(A)(1) of the 2020 National Electrical Code and CEC Table 12. The ampacity values assume a continuous sinusoidal 60 Hz current and are for reference only and should not be used as a final value.
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	Cond. Strands	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity *	Insul. Color
	AWG/Kcmil	No.	No.	mm	mm	kg/km	Amp	
647658	1	1	2090	2.29	13.59	518	220	OE

Copyright © 2026 Southwire Company, LLC. All Rights Reserved
UPDATED: Dec. 31, 2024, 11:08 p.m.UTC REVISION: 1.000.000