



Heavy Duty Stage Lighting Cu 600V Cable

105°C. 60°C Oil Resistant. 600 Volts. Flexible Stranded Bare Copper. CPE Insulation. -40C cold bend. Outdoor Rated.

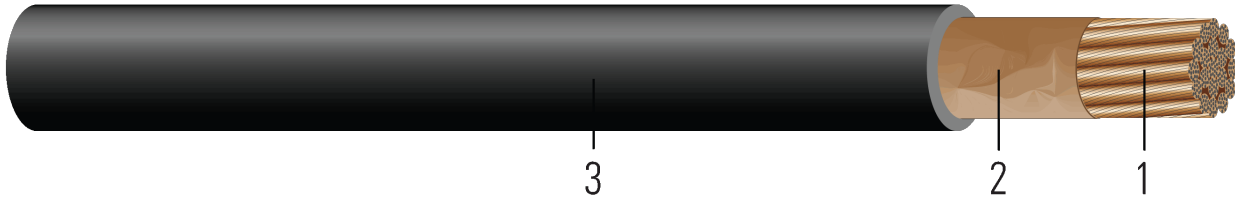


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class K, Flexible stranded bare copper per ASTM B172
2. **Separator:** Paper
3. **Insulation:** Chlorinated Polyethylene (CPE)

APPLICATIONS AND FEATURES:

Portable power and lighting applications in the entertainment industry including activities such as theatre, television, night clubs, motion pictures, mobile communication vans, spotlights, sound systems and other applications that would require temporary power. Southwire standard Type SC cables are rated for 600 volts and provide excellent flexibility, resistance to oil, solvents, ozone, aging, abrasion. SC cables are designed to withstand exposure to oil, acids, alkalines, moisture, chemicals and may be submerged in water.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 1680 Outline of Investigation for Stage Lighting Cables

SAMPLE PRINT LEGEND:

SOUTHWIRE(R) E308665 XX AWG SC MAX AMPS NEC TABLE 400.5 FOR 90C (UL) 105C 600V OIL RES 60C OUTDOOR -40C





Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	inch	lb/1000ft
577400	1	1	826	0.330	110	0.560	359

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Green CPE Insulation

Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Max Pull Tension	Min Bending Radius	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	lb	inch	Amp	Amp
1	0.143	0.186	670	2.7	195	220

* Ampacities based upon 2023 NEC Table 310.16. Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

