



Stage Lighting Cu 600V Cable

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

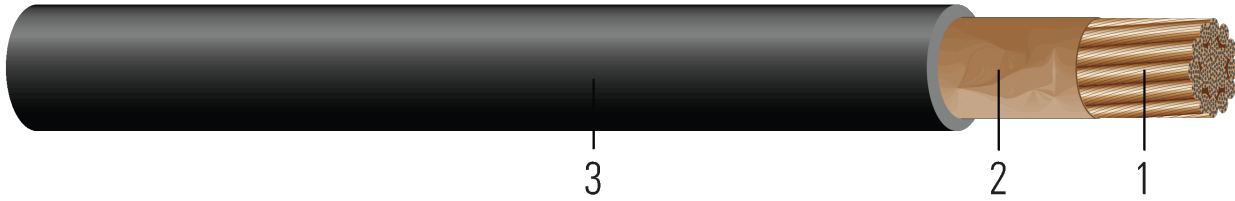


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class K, Flexible stranded bare copper per ASTM B172
- Separator:** Paper
- 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 AWG/Kcmil	Color	Diameter Over Conductor inch	Conductor Stranding	Insulation Thickness mils	Approx. OD inch	Overall Weight lbs/1000ft
570057	8	BK	0.162	168	60	0.285	78
559266	6	BK	0.179	259	70	0.325	123
558115	4	BK	0.230	420	65	0.370	171
558113	2	BK	0.301	665	85	0.474	273
558112	1/0	BK	0.368	1064	100	0.575	426

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item





Table 2 – Electrical and Engineering Data

Cond. Size	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil	Inches	Lbs	Ω/1000ft	Ω/1000ft	Amp	Amp
8	1.1	132	0.715	0.930	70	80
6	1.3	210	0.449	0.585	95	105
4	1.5	334	0.283	0.368	125	140
2	1.9	531	0.179	0.234	170	190
1/0	2.3	845	0.113	0.147	230	260

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

