



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.

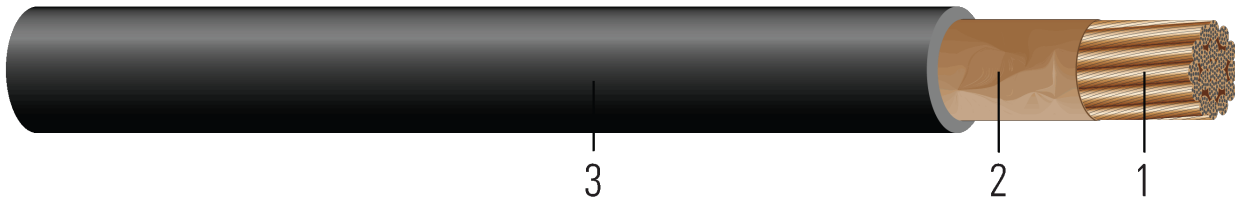


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 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	Cond. Strands No.	Diameter Over Conductor inch	Insul. Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft
577396	6	266	0.179	115	0.413	153
577397*	6	266	0.179	115	0.413	153
577398	4	420	0.220	120	0.470	204
577399	2	665	0.301	120	0.549	308
577400	1	826	0.330	110	0.560	359
577402	2/0	1330	0.420	115	0.660	541
577405	4/0	2109	0.540	115	0.777	813

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	Max Pull Tension	Min Bending Radius	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	lb	lb	inch	Amp	Amp
6	0.449	0.585	210	210	1.7	95	105
6	0.449	0.585	210	210	1.7	95	105
4	0.283	0.368	334	334	1.9	125	140
2	0.179	0.234	670	670	2.2	170	190
1	0.143	0.186	670	670	2.7	195	220
2/0	0.090	0.118	1065	1065	2.6	265	300
4/0	0.057	0.074	1693	1693	3.1	360	405

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

