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.

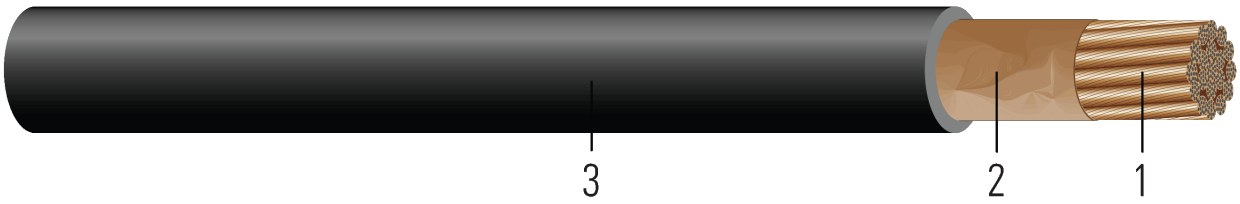


Image not to scale. See Table 1 for dimensions.

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 my 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	Strand Count	Diameter Over Conductor	Insul. Thickness	Insulation Color	Approx. OD	Approx. Weight
	AWG/Kcmil	No. of Strands	inch	mil		inch	lb/1000ft
577396	6	266	0.179	115	BK	0.413	153
577398	4	420	0.220	120	BK	0.470	204
577399	2	665	0.301	120	BK	0.549	308
577400	1	826	0.330	110	BK	0.560	359
577402	2/0	1330	0.420	115	BK	0.660	541
577405	4/0	2109	0.540	115	BK	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
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.

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Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Amp	Amp
577396	6	1.7	210	0.449	0.585	95	105
577398	4	1.9	334	0.283	0.368	125	140
577399	2	2.2	670	0.179	0.234	170	190
577400	1	2.7	670	0.143	0.186	195	220
577402	2/0	2.6	1065	0.090	0.118	265	300
577405	4/0	3.1	1693	0.057	0.074	360	405

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

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