Copper Service Entrance (SE) Cable Type SEU. XHHW-2

Service Entrance Cable, Type SE. Style SEU. Service Entrance Cable, 600 Volt. Individual Conductors Rated XHHW-2. Jacket and Individual Conductors Sunlight Resistant.

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** All phases are insulated with Cross Linked Polyethylene (XLPE) Type XHHW-2
3. **Neutral:** Bare soft annealed neutral
4. **Binder:** Reinforcement binder
5. **Jacket:** Gray Polyvinyl Chloride PVC jacket. Sunlight resistant.

APPLICATIONS AND FEATURES:

Southwire® Type SE, service entrance cable is primarily used to convey power from the service drop to the meter base and from the meter base to the distribution panelboard; however, the cable may be used in all applications where Type SE cable is permitted. SEU may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating is 600 volts. SE cables are not permitted underground, with or without a raceway, per NEC 338.12(A)(2).

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 854 Service Entrance Cable
- RoHS-2 (European Directive 2011/65/EU)
- NEC National Electrical Code NFPA 70
- Federal Specification A-A-59544

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E32071 {UL} X CDR XX AWG 1 CDR XX AWG CU TYPE SE CABLE STYLE U TYPE XHHW-2 CDRS 600 VOLTS MADE IN USA

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Num x Neutral Size	Approx. OD	Copper Weight	Overall Weight
	AWG/ Kcmil		inch		mils	No. x AWG	inch	lbs/1000ft	lbs/1000ft
130823◊	4	2	0.225	7	45	1x6	0.500x0.819	349	431
130781◊	4	2	0.225	7	45	1x4	0.529x0.848	411	495
130831◊	3	2	0.252	7	45	1x5	0.527x0.873	440	529
130799◊	3	2	0.252	7	45	1x3	0.560x0.902	508	591
130849◊	2	2	0.282	7	45	1x4	0.587x0.964	563	662
130807◊	2	2	0.282	7	45	1x2	0.599x0.976	639	738
218263◊	1	2	0.322	19	55	1x1	0.671x1.101	801	915
218289◊	2/0	2	0.405	19	55	1x2/0	0.786x1.305	1294	1442
218297◊	3/0	2	0.456	19	55	1x3/0	0.865x1.433	1558	1716
218305◊	4/0	2	0.512	19	55	1x4/0	0.917x1.545	1983	2156

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	Conductor Number	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 60°C	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
4	2	2.0	667	0.258	0.310	0.048	70	85	95
4	2	2.1	667	0.258	0.310	0.048	70	85	95
3	2	2.1	841	0.205	0.246	0.045	85	100	115
3	2	2.2	841	0.205	0.246	0.047	85	100	115
2	2	2.3	1061	0.162	0.195	0.045	95	115	130
2	2	2.4	1061	0.162	0.195	0.045	95	115	130
1	2	2.7	1339	0.128	0.154	0.046	110	130	145
2/0	2	3.2	2129	0.081	0.097	0.043	145	175	195
3/0	2	3.4	2684	0.064	0.078	0.042	165	200	225
4/0	2	3.7	3385	0.051	0.062	0.041	195	230	260

* Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.
* Ampacities have been adjusted for more than Three Current-Carrying Conductors.