SEU Aluminum Service Entrance

Aluminum Service Entrance Cable, Type SEU Service Entrance Cable, 600 Volt. Individual Conductors Rated XHHW-2 or THHN. Jacket and Individual Conductors Sunlight Resistant.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded bare aluminum Alumaflex® per ASTM B800 and ASTM B801
2. **Insulation:** All phases and neutral are insulated with Cross Linked Polyethylene (XLPE) Type XHHW-2 or Polyvinyl Chloride with Nylon Sheath THHN
3. **Neutral:** Helically applied bare aluminum
4. **Binder:** Reinforcement binder
5. **Jacket:** Gray Polyvinyl Chloride PVC jacket. Sunlight resistant.

APPLICATIONS AND FEATURES:

Southwire Type SEU, 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 B800 8000 Series Aluminum Alloy Wire
- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- UL 44 Thermoset-Insulated Wires and Cables
- UL 83 Thermoplastic 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

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SAMPLE PRINT LEGEND:

THHN Conductors:

{SQFTG} SOUTHWIRE E32071 MASTER-DESIGN {UL} X CDR X AWG 8000 AL. --- {ALUMAFLEX}{R} AA8176 TYPE SE CABLE STYLE U TYPE THHN CDRS 600 VOLTS MADE IN USA

XHHW-2 Conductors:

{SQFTG} SOUTHWIRE E32071 MASTER-DESIGN {UL} X CDR X AWG COMPACT AL. --- {ALUMAFLEX}{R} AA8176 TYPE SE CABLE STYLE U TYPE XHHW-2 CDRS 600 VOLTS MADE IN USA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Num x Neutral Size	Jacket Thickness	Approx. OD	Overall Weight
	AWG/ Kcmil		inch		mils	No. x AWG	mil	inch	lbs/1000ft
130880◊	2	2	0.268	6	45	1x2	30	0.578x0.940	287

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
*THHN Conductors

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 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
2	2	3.8	796	0.266	0.331	0.045	90	100

***** 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.

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