

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

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

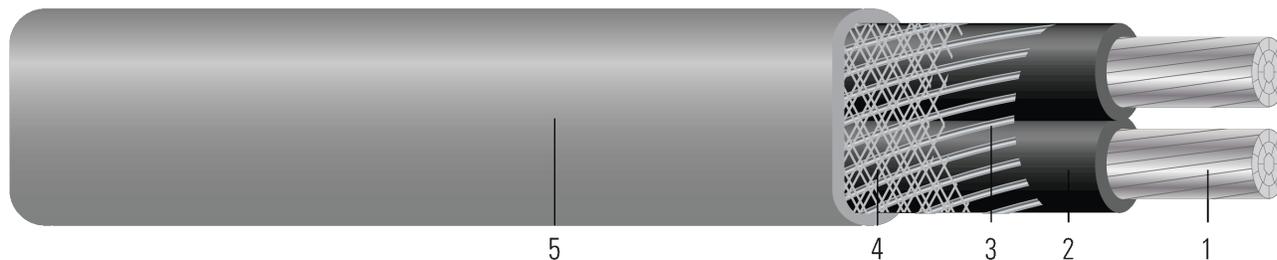


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B compact stranded bare aluminum Alumaflex® per ASTM B800 and ASTM B801
- Insulation:** All phases are insulated with Cross Linked Polyethylene (XLPE) Type XHHW-2
- Neutral:** Bare soft annealed aluminum neutral
- Binder:** Reinforcement binder
- 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. SER may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating is 600 volts.

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 854 Service Entrance Cable
- REACH/RoHS-2 (Chemical Limit) Compliant
- NEC National Electrical Code NFPA 70
- Federal Specification A-A-59544

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E32071 {UL} 2 CDR XX AWG 1 CDR 6 AWG COMPACT AL. --- {ALUMAFLEX}® 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
130864◇	6	2	0.169	7	45	1x6	30	0.419x0.138	137
130948◇	4	2	0.212	7	45	1x6	30	0.483x0.181	180
130872◇	4	2	0.212	7	45	1x4	30	0.508x0.197	197
130955◇	2	2	0.268	7	45	1x4	30	0.563x0.258	258
130880◇	2	2	0.268	7	45	1x2	30	0.578x0.284	283
130963◇	2/0	2	0.376	19	55	1x1	30	0.731x0.469	468
130914◇	2/0	2	0.376	19	55	1x2/0	30	0.733x0.512	512
130971◇	4/0	2	0.474	19	55	1x2/0	30	0.847x0.693	692
130930◇	4/0	2	0.474	19	55	1x4/0	30	0.890x0.767	766

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

* Strand count meets minimum number per ASTM

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
6	2	1.7	314	0.674	0.812	0.051	40	50	55
4	2	1.9	500	0.424	0.510	0.048	55	65	75
4	2	2.1	500	0.424	0.510	0.048	55	65	75
2	2	2.3	796	0.267	0.321	0.045	75	90	100
2	2	2.4	796	0.267	0.321	0.045	75	90	100
2/0	2	2.9	1597	0.133	0.160	0.043	115	135	150
2/0	2	2.9	1597	0.133	0.160	0.043	115	135	150
4/0	2	3.4	2539	0.084	0.100	0.041	150	180	205
4/0	2	3.6	2539	0.084	0.100	0.041	150	180	205

* 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.

