

Aluminum SER Service Entrance Cable



Application:

Aluminum SER cable is primarily used as panel feeder in multiple unit dwellings and for branch circuits. Maximum operating temperature is not to exceed 90°C in wet locations. Voltage rating is 600 volts.

Conductors:

Aluminum SER cable has a compact strand soft drawn 8000 series aluminum conductor, per ASTM B-801

Insulation:

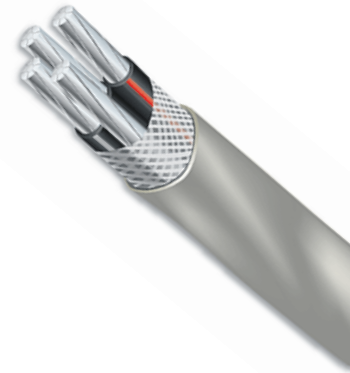
Aluminum SER cable has a type XHHW-2 cross linked polyethylene (XLP) insulation. The conductors are cabled together with a bare aluminum alloy ground. For color code, see table B in technical section.

Jacket:

Aluminum SER cable has a gray sunlight resistance polyvinyl chloride (PVC) jacket.

Standards:

- Ampacities based on National Electric Code, 2005 edition, section 310-15
- 60°C when terminated to equipment for circuits rated 100amps or less or marked for 14 AWG through 1 AWG conductors
- 70°C when terminated to equipment for circuits rated over 100amps or marked for conductors larger than 1 AWG
- 90°C wet or dry locations
- For dwelling units, conductors shall be permitted at listed Ampacities to be utilized as 120/240 volt, 3-wire, single phase service conductors that supply the total load
- UL 44



SKU Number	Insulated Conductor Size (AWG)	Bare Conductor Size (AWG)	Nominal OD (inches)	Approx. Weight (lbs per 1000')	Amps at 90°C	Amps in Dwelling
Two Conductor SER						
NS-AL-SER-001	8	8	0.488	97	45	N/A
NS-AL-SER-002	6	6	0.574	138	60	N/A
NS-AL-SER-003	4	6	0.632	177	75	N/A
NS-AL-SER-004	4	4	0.669	193	75	N/A
NS-AL-SER-005	2	4	0.748	254	100	100
NS-AL-SER-006	2	2	0.788	280	100	100
NS-AL-SER-007	1	1	0.884	349	115	110
NS-AL-SER-008	1/0	2	0.915	384	135	125
NS-AL-SER-009	1/0	1/0	0.964	423	135	125
NS-AL-SER-010	2/0	1	0.951	459	150	150
NS-AL-SER-011	2/0	2/0	1.050	513	150	150
NS-AL-SER-012	4/0	2/0	1.193	690	205	200
NS-AL-SER-013	4/0	4/0	1.264	766	205	200

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Three Conductor SER						
NS-AL-SER-014	8	8	0.571	128	45	N/A
NS-AL-SER-015	6	6	0.650	182	60	N/A
NS-AL-SER-016	4	6	0.736	240	75	N/A
NS-AL-SER-017	2	4	0.863	346	100	100
NS-AL-SER-018	1	3	0.973	435	115	110
NS-AL-SER-019	1/0	2	1.061	526	135	125
NS-AL-SER-020	2/0	1	1.164	637	150	150
NS-AL-SER-021	3/0	1/0	1.274	776	175	175
NS-AL-SER-022	4/0	2/0	1.390	948	205	200
NS-AL-SER-023	250	3/0	1.601	1106	230	225
NS-AL-SER-024	300	4/0	1.741	1311	255	250
Four Conductor SER						
NS-AL-SER-025	2	4	0.973	438	100	100
NS-AL-SER-026	2/0	1	1.299	807	150	150
NS-AL-SER-027	4/0	2/0	1.557	1204	200	200
NS-AL-SER-028	250	3/0	1.798	1404	225	225

All values are nominal and subject to correction

