



Aluminum 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 1AWG 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

Specification:

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						
NNC1685X	8	8	0.488	97	45	N/A
NNC1686X	6	6	0.574	138	60	N/A
NNC1687X	4	6	0.632	177	75	N/A
NNC1688X	4	4	0.669	193	75	N/A
NNC1689X	2	4	0.748	254	100	100
NNC1690X	2	2	0.788	280	100	100
NNC1691X	1	1	0.884	349	115	110
NNC1692X	1/0	2	0.915	384	135	125
NNC1693X	2/0	1	0.951	459	150	150
NNC1694X	2/0	2/0	1.050	513	150	150
NNC1695X	4/0	2/0	1.193	690	205	200
NNC1696X	4/0	4/0	1.264	766	205	200
Three Conductor SER						
NNC1697X	8	8	0.571	128	45	N/A
NNC1698X	6	6	0.650	182	60	N/A
NNC1699X	4	6	0.736	240	75	N/A
NNC1700X	2	4	0.863	346	100	100
NNC1701X	1	3	0.973	435	115	110
NNC1702X	1/0	2	1.061	526	135	125
NNC1703X	2/0	1	1.164	637	150	150
NNC1704X	3/0	1/0	1.274	776	175	175
NNC1705X	4/0	2/0	1.390	948	205	200
NNC17403X	250	3/0	1.601	1106	230	225
NNC1706X11	300	4/0	1.741	1311	255	250
Four Conductor SER						
NNC1707X	2	4	0.973	438	100	100
NNC1709X	2/0	1	1.299	807	150	150
NNC1708X	4/0	2/0	1.557	1204	200	200
NNC1710X	250	3/0	1.798	1404	225	225
NNC1706X	300	4/0	1.719	1560	260	230