

Aluminum Service Entrance Cable

Type SE Style R (SER), 600V 90°C



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 or dry locations. Voltage rating is 600 volts.

CONDUCTORS:

- 8000 series aluminum alloy, solid or compact stranded

INSULATION:

- Type XHHW-2 cross-linked polyethylene (XLPE) insulation.

COLOR CODE:

Cond #	Color
2	Black and Red
3	Black, White, and Red
4	Black, White, Red, and Blue

ASSEMBLY:

- Two, three or four insulated conductors and a bare ground conductor cabled together and covered with a reinforced binder tape

JACKET:

- Gray sunlight resistant polyvinyl chloride (PVC) jacket

STANDARDS:

- UL 44: Thermoset-Insulated Wires and Cables
- UL 854: Standard for Service-Entrance Cables
- ASTM B-258, B-800, B-801
- National Electric Code

Part Number	Insulated Conductor		Bare Conductor		Nominal OD		Approx. Weight	Allowable Ampacities**		
	Size	Number of Strands	Size	Number of Strands	inches	mm		lbs/kft	75°C	90°C
	AWG/kcmil		AWG/kcmil							
Two Conductor SER plus Bare Ground										
8-02ALUMG-SER-SOL	2 x 8	1	8	1	0.550	13.97	105	40	45	-
8-02ALUMG-SER	2 x 8	7	8	7	0.559	14.20	109	40	45	-
6-02ALUMG-SER	2 x 6	7	6	7	0.630	16.00	148	50	55	-
4-02ALUMG-R-SER	2 x 4	7	6	7	0.720	18.29	191	65	75	-
4-02ALUMG-SER	2 x 4	7	4	7	0.730	18.54	201	65	75	-
2-02ALUMG-R-SER	2 x 2	7	4	7	0.831	21.11	263	90	100	100
2-02ALUMG-SER	2 x 2	7	2	7	0.840	21.34	286	90	100	100
1-02ALUMG-SER	2 x 1	18	3	7	0.937	23.80	339	100	115	110
1/0-02ALUMG-R-SER	2 x 1/0	18	2	7	1.016	25.81	394	120	135	125
1/0-02ALUMG-SER	2 x 1/0	18	1/0	18	1.030	26.16	431	120	135	125
2/0-02ALUMG-R-SER	2 x 2/0	18	1	18	1.094	27.79	476	135	150	150
2/0-02ALUMG-SER	2 x 2/0	18	2/0	18	1.100	27.94	522	135	150	150
3/0-02ALUMG-R-SER	2 x 3/0	18	1/0	18	1.190	30.23	591	155	175	175
4/0-02ALUMG-R-SER	2 x 4/0	18	2/0	18	1.291	32.79	701	180	205	200
4/0-02ALUMG-SER	2 x 4/0	18	4/0	18	1.310	33.27	775	180	205	200

All values are nominal and subject to correction.

**Ampacities shown are for general use as specified by the National Electrical Code, 2023 Edition Table 310.16 & article 338.10. For dwelling, conductors shall be permitted at listed ampacities to be utilized as 120/240 volt, 3-wire, single-phase service and feeder conductors that serve as the main feeder per NEC article 310.12.



1-800-945-5542
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	Size AWG/kcmil	Number of Strands	Size AWG/kcmil	Number of Strands	inches	mm		lbs/kft	75°C	90°C
							Three Conductor SER plus Bare Ground			
8-03ALUMG-SER-SOL	3 x 8	1	8	1	0.600	15.24	140	40	45	-
8-03ALUMG-SER	3 x 8	7	8	7	0.606	15.39	143	40	45	-
6-03ALUMG-SER	3 x 6	7	6	7	0.689	17.50	195	50	55	-
4-03ALUMG-R-SER	3 x 4	7	6	7	0.776	19.71	257	65	75	-
2-03ALUMG-R-SER	3 x 2	7	4	7	0.902	22.91	365	90	100	100
1-03ALUMG-R-SER	3 x 1	18	3	7	1.020	25.91	461	100	115	110
1/0-03ALUMG-R-SER	3 x 1/0	18	2	7	1.106	28.09	556	120	135	125
2/0-03ALUM-R-SER	3 x 2/0	18	1	18	1.197	30.40	668	135	150	150
3/0-03ALUMG-R-SER	3 x 3/0	18	1/0	18	1.307	33.20	809	155	175	175
4/0-03ALUMG-R-SER	3 x 4/0	18	2/0	18	1.421	36.09	987	180	205	200
250-03ALUMG-R-SER	3 x 250	35	3/0	18	1.530	38.86	1143	205	230	225
300-03ALUMG-R-SER	3x 300	35	4/0	18	1.650	41.91	1347	230	260	250
Four Conductor SER plus Bare Ground										
2-04ALUMG-R-SER	4 x 2	7	4	7	1.043	26.49	465	90	100	100
2/0-04ALUMG-R-SER	4 x 2/0	18	1	18	1.398	35.51	853	135	150	150
4/0-04ALUMG-R-SER	4 x 4/0	18	2/0	18	1.673	42.49	1262	180	205	200
250-04ALUMG-R-SER	4 x 250	22	3/0	22	1.850	46.99	1585	205	230	225

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