

600 Volt Aluminum Alloy Conductor
Cross-linked Polyethylene (XLPE) Insulated
Singles Rated XHHW-2.
Sunlight Resistant PVC Jacket



APPLICATIONS

AL SER, service entrance cable is used to convey power from the service drop to the meter base and from the meter base to the distribution panel board; however, it may be used in all applications where AL SER cable is permitted. AL SER may be used in wet or dry above ground locations at temperatures not to exceed 90° C. The voltage rating is 600 volts.

STANDARDS

AL SER Cable meets the requirements

- UL 44
- UL 854

CONSTRUCTION

Conductor	▪ Compact stranded aluminum ▪ AA-8000 series aluminum alloy ▪ Bare stranded aluminum ground conductor
Insulation	▪ XLPE insulation material ▪ Temperature of 90°C in wet and dry location
Bedding	▪ Glass-Reinforced Tape Shield
Jacket	▪ Sunlight resistant, polyvinyl chloride (PVC)

TECHNICAL PARAMETER LIST

Size/ Construction (AWG)	Stranding		Nominal O.D. (Inch)	Approximate Weight per 1000' (lbs.)	Allowable Ampacities	
	Phase & Neutral Conductors	Equipment Ground Conductor			90 ° C	Dwelling
SER Two Conductor with Bare Ground (Formerly Referred to as "Three Conductor")						
8-8-8	7	7	0.488	97	45	N/A
6-6-6	7	7	0.574	138	60	N/A
4-4-6	7	7	0.632	177	75	N/A
4-4-4	7	7	0.669	193	75	N/A
2-2-4	19	19	0.748	254	100	100
2-2-2	19	19	0.788	280	100	100
1-1-1	19	19	0.884	349	115	110
1/0-1/0-2	19	19	0.915	384	135	125
1/0-1/0-1/0	19	19	0.964	423	135	125
2/0-2/0-1	19	19	0.951	459	150	150
2/0-2/0-2/0	19	19	1.05	513	150	150
4/0-4/0-2/0	19	19	1.193	690	205	200
4/0-4/0-4/0	19	19	1.264	766	205	200
SER Three Conductor with Bare Ground (Formerly Referred to as "Four Conductor")						
8-8-8-8	7	7	0.571	128	45	N/A

Size/ Construction (AWG)	Stranding		Nominal O.D. (Inch)	Approximate Weight per 1000' (lbs.)	Allowable Ampacities	
	Phase & Neutral Conductors	Equipment Ground Conductor			90° C	Dwelling
6-6-6-6	7	7	0.65	182	60	N/A
4-4-4-6	7	7	0.736	240	75	N/A
2-2-2-4	7	7	0.863	346	100	100
1-1-1-3	19	19	0.973	435	115	110
1/0-1/0-1/0-2	19	19	1.061	526	135	125
2/0-2/0-2/0-1	19	19	1.164	637	150	150
3/0-3/0-3/0-1/0	19	19	1.274	776	175	175
4/0-4/0-4/0-2/0	19	19	1.39	948	205	200
250-250-250-3/0	37	19	1.601	1106	230	225
300-300-300-4/0	37	19	1.741	1311	255	250
SER Four Conductor with Bare Ground (Formerly Referred to as "Five Conductor")						
6-6-6-6-6	7	7	0.700	225	55	50
4-4-4-4-6	7	7	0.848	330	75	70
2-2-2-2-4	7	7	0.973	438	100	100
1-1-1-1-3	7	7	1.110	569	115	110
1/0-1/0-1/0-1/0-2	19	19	1.205	693	135	130
2/0-2/0-2/0-2/0-1	19	19	1.299	807	150	150
3/0-3/0-3/0-3/0-1/0	19	19	1.425	1010	175	170
4/0-4/0-4/0-4/0-2/0	19	19	1.557	1204	205	200
250-250-250-250-3/0	37	19	1.798	1404	230	225
300-300-300-300-4/0	37	19	1.95	1662	255	250