

ALUMINUM SERVICE ENTRANCE CABLE TYPE SE, STYLE R & TYPE SE, STYLE U

Applications:

Commodity Cables Inc. Aluminum Service Entrance Cable Type SE, with rated voltage 600V, is used to transmit power from the junction box to the meter base and from the meter base to the distribution cabinet; it may be used in all applications where Type SE cable is permitted. Type SE cable could be used in dry or wet environment at the working temperature not exceed 90°C.

Standard:

ASTM-B-800 and B-801
UL Standard 44 for XHHW-2
UL Standard 854 for SER/SEU
RoHS environmental conductive requirement

Product characters:

Conductor:	AA-8030 aluminum alloy conductors
Insulation:	Cross-linked polyethylene (XLPE) insulation
Jacket:	Sunlight resistant, moisture resistant and flame retardant
Temperature Range:	Temperature of 90° C in wet and dry locations
Environmental:	Free of harmful heavy metals in compliance with RoHS
Voltage Rating:	600Volt

Specifications:

The AA-8000 aluminum alloy conductor is applied in Type SER/SEU cable. Its insulated core is complied to the requirement of Type XHHW-2 in UL44. Insulation material is cross-linked polyethylene (XLPE) with characteristics of abrasion resistance, moisture proof and heat resisting. Meanwhile the insulation has the flame retardant property, which can meet the FT2 level combustion test requirement. The outside of cable core should be wrapped a fibrage tape, both of the insulation wire core and outer sheath can meet the 720h sunlight resistant requirement.



Technical data sheet -Aluminum Service Entrance Cable 600V Style R

Conductor Size (AWG, Kcmil)	Phase Conductor Diameter		Nominal Insulation Thickness		Nominal Overall Diameter		Approx. Weight		Allowable Ampacity AMPS		
	inch	mm	mils	mm	mils	mm	kg/km	lbs/1000ft	65°C	75°C	90°C
SER Cable Two Conductor with Bare Ground											
8-8-8	0.134	3.40	45	1.14	490	12.4	158	106	35	40	45
6-6-6	0.169	4.29	45	1.14	566	14.4	215	145	40	50	55
4-4-4	0.213	5.41	45	1.14	661	16.8	300	202	55	65	75
4-4-6	0.213	5.41	45	1.14	629	16.0	275	185	55	65	75
2-2-2	0.268	6.81	45	1.14	780	19.8	427	287	75	90	100
2-2-4	0.268	6.81	45	1.14	740	18.8	388	261	75	90	100
1-1-1	0.299	7.59	55	1.40	880	22.4	540	363	85	100	115
1-1-3	0.299	7.59	55	1.40	834	21.2	490	330	85	100	115
1/0-1/0-1/0	0.336	8.53	55	1.40	963	24.5	655	441	100	120	135
1/0-1/0-2	0.336	8.53	55	1.40	913	23.2	591	397	100	120	135
2/0-2/0-2/0	0.376	9.55	55	1.40	1053	26.7	795	535	115	135	150
2/0-2/0-1	0.376	9.55	55	1.40	996	25.3	716	482	115	135	150
3/0-3/0-3/0	0.423	10.74	55	1.40	1159	29.4	972	654	130	155	175
3/0-3/0-1/0	0.423	10.74	55	1.40	1094	27.8	873	587	130	155	175
4/0-4/0-4/0	0.475	12.07	55	1.40	1276	32.4	1191	801	150	180	205
4/0-4/0-2/0	0.475	12.07	55	1.40	1202	30.5	1067	718	150	180	205
250-250-250	0.520	13.21	65	1.65	1407	35.7	1423	957	170	205	230
250-250-3/0	0.520	13.21	65	1.65	1334	33.9	1291	868	170	205	230
SER Cable Three Conductor with Bare Ground											
8-8-8-8	0.134	3.40	45	1.14	559	14.2	208	140	35	40	45
6-6-6-6	0.169	4.29	45	1.14	642	16.3	282	190	40	50	55
4-4-4-4	0.213	5.41	45	1.14	752	19.1	395	266	55	65	75
4-4-4-6	0.213	5.41	45	1.14	724	18.4	370	249	55	65	75
2-2-2-2	0.268	6.81	45	1.14	890	22.6	570	383	75	90	100
2-2-2-4	0.268	6.81	45	1.14	854	21.7	530	356	75	90	100
1-1-1-1	0.299	7.59	55	1.40	1004	25.5	723	486	85	100	115
1-1-1-3	0.299	7.59	55	1.40	965	24.5	673	453	85	100	115
1/0-1/0-1/0-1/0	0.336	8.53	55	1.40	1098	27.9	876	589	100	120	135
1/0-1/0-1/0-2	0.336	8.53	55	1.40	1055	26.8	813	547	100	120	135



2/0-2/0-2/0-2/0	0.376	9.55	55	1.40	1197	30.4	1063	715	115	135	150
2/0-2/0-2/0-1	0.376	9.55	55	1.40	1150	29.2	984	662	115	135	150
3/0-3/0-3/0-3/0	0.423	10.74	55	1.40	1315	33.4	1289	867	130	155	175
3/0-3/0-3/0-1/0	0.423	10.74	55	1.40	1260	32.0	1200	807	130	155	175
4/0-4/0-4/0-4/0	0.475	12.07	55	1.40	1449	36.8	1589	1069	150	180	205
4/0-4/0-4/0-2/0	0.475	12.07	55	1.40	1386	35.2	1466	986	150	180	205
250-250-250-250	0.520	13.21	65	1.65	1598	40.6	1902	1279	170	205	230
250-250-250-3/0	0.520	13.21	65	1.65	1535	39.0	1771	1191	170	205	230
SER Cable Four Conductor with Bare Ground											
8-8-8-8-8	0.134	3.40	45	1.14	626	15.9	257	173	35	40	45
6-6-6-6-6	0.169	4.29	45	1.14	720	18.3	350	235	40	50	55
4-4-4-4-4	0.213	5.41	45	1.14	843	21.4	494	332	55	65	75
4-4-4-4-6	0.213	5.41	45	1.14	819	20.8	468	315	55	65	75
2-2-2-2-2	0.268	6.81	45	1.14	1000	25.4	714	480	75	90	100
2-2-2-2-4	0.268	6.81	45	1.14	969	24.6	675	454	75	90	100
1-1-1-1-1	0.299	7.59	55	1.40	1130	28.7	909	611	85	100	115
1-1-1-1-3	0.299	7.59	55	1.40	1094	27.8	859	578	85	100	115
1/0-1/0-1/0-1/0-1/0	0.336	8.53	55	1.40	1236	31.4	1100	740	100	120	135
1/0-1/0-1/0-1/0-2	0.336	8.53	55	1.40	1197	30.4	1037	697	100	120	135
2/0-2/0-2/0-2/0-2/0	0.376	9.55	55	1.40	1346	34.2	1334	897	115	135	150
2/0-2/0-2/0-2/0-1	0.376	9.55	55	1.40	1303	33.1	1256	845	115	135	150
3/0-3/0-3/0-3/0-3/0	0.423	10.74	55	1.40	1480	37.6	1628	1095	130	155	175
3/0-3/0-3/0-3/0-1/0	0.423	10.74	55	1.40	1429	36.3	1530	1029	130	155	175
4/0-4/0-4/0-4/0-4/0	0.475	12.07	55	1.40	1626	41.3	1993	1340	150	180	205
4/0-4/0-4/0-4/0-2/0	0.475	12.07	55	1.40	1571	39.9	1870	1258	150	180	205
250-250-250-250-250	0.520	13.21	65	1.65	1795	45.6	2388	1606	170	205	230
250-250-250-250-3/0	0.520	13.21	65	1.65	1740	44.2	2258	1519	170	205	230

Technical data sheet -Aluminum Service Entrance Cable 600V Style U

Conductor Size (AWG, Kcmil)	Phase Conductor Diameter		Nominal Insulation Thickness		Nominal Overall Diameter		Approx. Weight		Allowable Ampacity AMPS		
	inch	mm	mils	mm	mils	mm	kg/km	lbs/1000ft	65°C	75°C	90°C
SEU Cable Two Conductor with Bare Concentric Wire Ground											
8-8-8	0.134	3.40	45	1.14	398x254	15.7x10.0	165	111	35	40	45
6-6-6	0.169	4.29	45	1.14	443x277	17.5x10.9	219	147	40	50	55
4-4-4	0.213	5.41	45	1.14	504x308	19.8x12.1	304	204	55	65	75
4-4-6	0.213	5.41	45	1.14	501x305	19.7x12.0	280	188	55	65	75
2-2-2	0.268	6.81	45	1.14	598x367	23.6x14.5	439	295	75	90	100
2-2-4	0.268	6.81	45	1.14	578x347	22.7x13.7	399	268	75	90	100
1-1-1	0.299	7.59	55	1.40	680x416	26.8x16.4	554	373	85	100	115
1-1-3	0.299	7.59	55	1.40	654x390	25.8x15.4	504	339	85	100	115
1/0-1/0-1/0	0.336	8.53	55	1.40	730x442	28.7x17.4	660	444	100	120	135
1/0-1/0-2	0.336	8.53	55	1.40	717x429	28.2x16.9	610	410	100	120	135
2/0-2/0-2/0	0.376	9.55	55	1.40	796x482	31.3x19.0	811	545	115	135	150
2/0-2/0-1	0.376	9.55	55	1.40	784x470	30.9x18.5	736	495	115	135	150
3/0-3/0-3/0	0.423	10.74	55	1.40	856x512	33.7x20.1	984	662	130	155	175
3/0-3/0-1/0	0.423	10.74	55	1.40	847x503	33.3x19.8	894	601	130	155	175
4/0-4/0-4/0	0.475	12.07	55	1.40	926x548	36.5x21.6	1198	806	150	180	205
4/0-4/0-2/0	0.475	12.07	55	1.40	929x551	36.6x21.7	1091	734	150	180	205