

MIRABEL CABLES

Type SER

Service Entrance Cable, XHHW/XHHW-2
Conductor(s)

Aluminum, XLPE Insulated, 600 V, 90°C



APPLICATION

These cables are used as a service entrance cable, to convey power from the service drop to the meter base and from the meter base to the distribution panelboard. Also in other branch circuits or feeders as permitted by NEC. SE may be used in wet or dry above ground locations at temperatures not to exceed 90° C.

CONSTRUCTION

Conductor

Stranded aluminum alloy (AA-8176) compacted conductor Class B stranding per ASTM B801.

Sizes: 12 AWG (6 AWG Aluminum)– 4/0 AWG.

Separator: A suitable opaque tape, as required.

Insulation

Black Thermoset flame retardant cross-linked polyethylene (XLPE).

Assembly

Two or three conductors with a bare neutral conductor (8000 Al-Alloy) and a reinforcement fiberglass laminated tape, composed of fiberglass scrim bonded to the polyester film in accordance to UL-854 requirements.

Jacket

Sunlight resistant Grey polyvinyl chloride (PVC).

CHARACTERISTICS

Electrical performance

Maximum operating voltage: 600 volts

Thermal performance

Maximum conductor operation temperatures: 90° C wet and dry

Singles are UL Listed Types XHHW/XHHW-2.

Jacket is Sunlight Resistance in accordance with UL 854.

STANDARDS / COMPLIANCE

ASTM B-800 Specification for 8000 Series Aluminum Alloy Wire for Electrical Purposes—Annealed and Intermediate Tempers.

ASTM B-801 Specification for Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy for Subsequent Covering or Insulation.

ASTM B-901 Specification for Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction.

ASTM B-836 Specification for Compact Round Stranded Aluminum Conductors Using Single Input Wire Construction.

UL 854 Service-Entrance Cables.

UL 44 Thermoset-Insulated Wire and Cable.

RoHS

NEC NFPA70, 2021 Edition

Country of origin South Korea

MIRABEL CABLES

Type SER

Service Entrance Cable, XHHW/XHHW-2
Conductor(s)

Aluminum, XLPE Insulated, 600 V, 90°C



DIMENSIONS & ADMISSIBLE INTENSITIES

Size (AWG)	Diameter (in)	Weight (lb/kft)	Number of strands	Ampacity(A)			
				60°C	75°C	90°C	Dwelling
SER Aluminum Two-Conductor With Bare Ground (Formerly referred to as "EZ-SE")							
6-6-6	0.65	150	7	40	50	60	
4-4-4	0.745	203	7	55	65	75	
4-4-6	0.745	203	7	55	65	75	
2-2-2	0.864	290	7	75	90	100	100
SER Aluminum Three Conductor With Bare Ground (Formerly referred to as "Four Conductor")							
8-8-8-8	0.612	136	1	30	40	45	
6-6-6-6	0.717	196	7	40	50	60	
4-4-4-6	0.823	252	7	55	65	75	
2-2-2-4	0.956	359	7	75	90	100	100
1-1-1-3	1.079	449	8	85	100	115	110
1/0-1/0-1/0-2	1.168	540	10	100	120	135	125
2/0-2/0-2/0-1	1.264	652	12	115	135	150	150
3/0-3/0-3/0-1/0	1.371	786	16	130	155	175	175
4/0-4/0-4/0-2/0	1.496	960	19	150	180	205	200
250-250-250-3/0	1.839	1458	22	170	205	230	225
SER Aluminum Four Conductor With Bare Ground (Formerly referred to as "Five Conductor")							
2-2-2-2-4	1.059	452	6	75	90	100	100
2/0-2/0-2/0-2/0-1	1.404	827	12	115	135	150	150
4/0-4/0-4/0-4/0-2/0	1.672	1228	19	150	180	205	200
250-250-250-250-3/0	1.847		22	170	205	230	225
SEU Aluminum Two Conductor With Bare Conentric Ground (Formerly referred to as "Three Conductor")							
6-6-6	0.430×0.687	145	7	40	50	60	
4-4-4	0.499×0.800	198	7	55	65	75	
4-4-6	0.474×0.775	181	7	55	65	75	
2-2-2	0.569×5.925	283	7	75	90	100	100
2-2-4	0.554×5.910	259	7	75	90	100	100
2/0-2/0-2/0	0.736×1.221	514	18	115	135	150	150
2/0-2/0-1	0.720×1.205	468	18	115	135	150	150
4/0-4/0-4/0	0.878×1.462	765	18	150	180	205	205
4/0-4/0-2/0	0.835×1.419	691	18	150	180	205	205

*Data are approximate and subject to normal manufacturing tolerance.

DELIVERY & SHIPMENT

