Type SER (Service Entrance Cable), XHHW/XHHW-2

Copper/Aluminum, XLPE Insulated, 600 V, 90°

Features

Singles are UL Listed Types XHHW/XHHW-2.

Jacket is Sunlight Resistance in accordance with UL 854.

Application

These cables are used as a service entrance cable, to convey power from the service drop to the meter.

Also in other branch circuits or feeders as permitted by NEC.

Standards

UL 854

Service-Entrance Cables.

UL 44

Rubber-insulated wires and cables.

Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

- 90 °C wet and dry

Engineering Information

1. Copper Conductor: Soft annealed uncoated copper compressed Class B stranding, or unilay-compressed per ASTM B8.

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

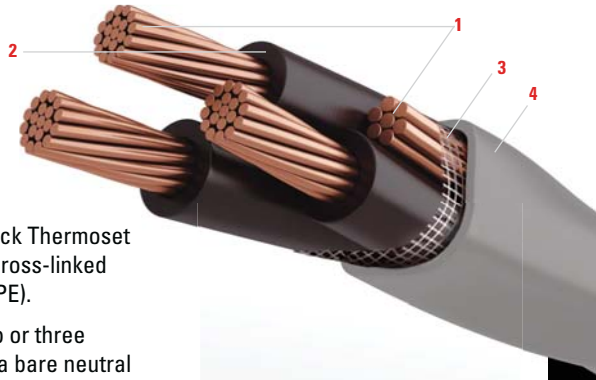
Sizes: 12 AWG (6 AWG Aluminum)– 4/0 AWG.

Separator: A suitable opaque tape, as required.

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

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

4. Jacket: Sunlight resistant Grey polyvinyl chloride (PVC).



Aluminum Conductor

Technical Data

Type SER XHHW/XHHW-2, XLPE Insulated

Size AWG	Conductor: Number of Strands	Conductor: Insulation Thickness (mil)	Cable OD (in)	Weight (lb/kft)
Two Copper Conductors				
8-8-8	7	45	0.60	265
6-6-6	7	45	0.68	382
4-4-4	7	45	0.78	563
2-2-2	7	45	0.90	844
1-1-1	19	55	1.03	1069
1/0-1/0-1/0	19	55	1.12	1316
2/0-2/0-2/0	19	55	1.21	1624
3/0-3/0-3/0	19	55	1.32	2009
4/0-4/0-4/0	19	55	1.36	2445
Two Aluminum Conductors				
6-6-6	7	45	0.65	194
4-4-4	7	45	0.75	266
2-2-2	7	45	0.87	373
1-1-1	19	55	0.98	468
1/0-1/0-1/0	19	55	1.06	558
2/0-2/0-2/0	19	55	1.15	671
3/0-3/0-3/0	19	55	1.25	809
4/0-4/0-4/0	19	55	1.36	983

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

CME wire and cable
A Viakable Company

Technical Data

Type SER XHHW/XHHW-2, XLPE Insulated

Size AWG	Conductor		Cable OD	Weight
	Number of Strands	Insulation Thickness mil	in	lb/kft
Three Copper Conductors				
8-8-8-8	7	45	0.66	310
6-6-6-6	7	45	0.75	453
4-4-4-6	7	45	0.86	627
4-4-4-4	7	45	0.86	676
2-2-2-4	7	45	1.00	945
2-2-2-2	7	45	1.00	1023
1-1-1-3	19/7	55	1.14	1192
1-1-1-2	19/7	55	1.14	1235
1/0-1/0-1/0-2	19/7	55	1.24	1471
2/0-2/0-2/0-1	19	55	1.35	1819
3/0-3/0-3/0-1/0	19	55	1.47	2255
4/0-4/0-4/0-2/0	19	55	1.51	2770
Three Aluminum Conductors				
6-6-6-6	7	45	0.72	209
4-4-4-6	7	45	0.83	275
4-4-4-4	7	45	0.83	290
2-2-2-4	7	45	0.96	389
2-2-2-2	7	45	0.96	413
1-1-1-2	19/7	55	1.09	504
1/0-1/0-1/0-2	19/7	55	1.18	588
2/0-2/0-2/0-1	19	55	1.27	710
3/0-3/0-3/0-1/0	19	55	1.39	859
4/0-4/0-4/0-2/0	19	55	1.51	1047
250-250-250-3/0	19	55	1.62	1219

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.