

# XHHW-2

## Aluminum Alloy Cable Series AA8000



### Description

The XHHW-2 is an aluminum alloy series AA8000 Class B or C conductor; with thermoset insulation materials composed by black cross-linked polyethylene (XLPE).

### Standard Specifications

The XHHW-2 conductors are built based on the following:

- Standards: **ASTM B786, B800, B801 y UL44.**
- Certificates: **UL E176603 y CIDET # 03542.**

### Features

- The XHHW-2 cables are designed with a high resistance thermoset cross-linked polyethylene insulation to be installed on dry, damped or wet locations at temperatures not exceeding 90°C, and 1000V maximum operating voltage.
- Due to the cross-linked polyethylene insulation, the conductors provide a high performance for: mechanical stress, humidity, oils and chemical resistance.



- The XHHW-2 complies with UL options:
  - SR - Sunlight Resistant
  - -40°C - Temp
  - PR I o PR II - Oil Resistance
  - GR I o GR II - Oil and Gasoline Resistance
  - CT - Cable Tray (1/0 AWG a 500 kcmil\*)

\* Ask your sales representative

- The carbon black insulation provides UV resistance, allowing product installation directly exposed to sun light on tray cables, metal conduits and raceways.

### Applications

- The XHHW-2 conductors are designed primarily for service entrance, feeders and branch circuits in commercial and residential applications.
- The XLPE cross-linked insulation provides high-performance during overload and short-circuit conditions.
- The high mechanical insulation strength and the wall thickness allows for underground feeder systems installed in ducts.
- The XHHW-2 cables can be installed in ducts either metallic or plastic in tray cables (certification required).

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### Technical Information

#### Dimensions and nominal features

The conductor operating amperage is defined by the installation condition and operating temperatures identified in the NEC. See TABLE 310.15(B)(16) NFPA 70 latest version

Gauge		Wire Count	Diameter		Insulation Thickness		External Diameter	Weight	Conductor Resistance
AWG/kcmil	mm	#	mm	in	mm	in	mm	kg/km	Ω/km
6	13,3	7	4,52	0,178	1,14	0,045	6,81	56,85	2,210
4	21,2	7	5,72	0,225	1,14	0,045	8,00	83,30	1,390
2	33,6	7	7,19	0,283	1,14	0,045	9,47	121,78	0,875
1/0	53,5	19	9,19	0,362	1,40	0,055	11,99	192,53	0,550
2/0	67,40	19	10,29	0,405	1,40	0,055	13,08	235,50	0,436
3/0	85,00	19	11,58	0,456	1,40	0,055	14,38	289,34	0,346
4/0	107,00	19	13,00	0,512	1,40	0,055	15,80	356,02	0,274
250	127,00	37	14,17	0,558	1,65	0,065	17,48	425,24	0,232
300	152,00	37	15,52	0,611	1,65	0,065	18,82	498,80	0,194
350	177,00	37	16,79	0,661	1,65	0,065	20,09	581,64	0,166
400	203,00	37	17,93	0,706	1,65	0,065	21,23	657,17	0,145
500	253,00	37	20,04	0,789	1,65	0,065	23,34	807,05	0,116
600	304,00	61	22,00	0,866	2,03	0,080	26,06	989,18	0,097
750	380,00	61	24,59	0,968	2,03	0,080	28,65	1203,64	0,077
1000	507,00	61	28,37	1,117	2,03	0,080	32,44	1577,33	0,058

Note: The values given may vary according to the manufacturing tolerances



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