

## XHHW-2

### AA8000 Series Aluminum Wire



## GENERAL INFORMATION

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).

## FEATURES

- The XHHW-2 cables are designed with a high resistance thermoset cross-linked polyethylene insulation to be installed on dry, damp 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.
- Its charcoal black pigmentation makes it resistant to ultraviolet rays, so it can be used outdoors and exposed to the sun.

## CERTIFICATIONS AND DESIGN STANDARDS

**Standards of design:** ASTM B3, ASTM B8, ASTM B787 and UL 44

**Certifications:** UL E179372 and CIDET 08086

## CABLE DESIGN

Conductor material	Aluminium
Core insulation material	XLPE

## ELECTRICAL & THERMAL PARAMETERS

Nominal voltage U [V]	1,000
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## INSTALLATION DETAILS

Application	Building Installations;Residential Installations;Industrial Installations
Outdoor installation	Yes
Underground installation	Yes
Suitable as installation cable	Yes

## PHYSICAL & CHEMICAL PROPERTIES

Flame retardant	No
Oil resistant	Yes
Moisture resistance	Yes

## SPECIFIC APPLICATIONS

### LEGEND ON THE CABLE

This cable, includes a legend indicating sequential meter-by-meter marking, which allows easy identification of the required length and the cutting point.

**For 8 AWG to 750 kcmil gauges, NO-CT version, the legend to be printed is:**

PRYSMIAN (R) PHELPS DODGE (R) XHHW-2 (GAUGE) AWG ((GAUGE) mm<sup>2</sup>) COMPACT AL AA-8000 XLPE 600/1000 V GR I AND GR II SUN-RES (-40C) (UL) E176603 ■(SEQUENTIAL) m (GAUGE) AWG ((GAUGE) mm<sup>2</sup>)

**For 8 AWG to 750 kcmil gauges, CT version, the legend to be printed is:**

PRYSMIAN (R) PHELPS DODGE (R) XHHW-2 (GAUGE) AWG ((GAUGE) mm<sup>2</sup>) COMPACT AL AA-8000 XLPE 600/1000 V GR I AND GR II SUN-RES FOR CT USE (-40C) (UL) E176603 ■(SEQUENTIAL) m (GAUGE) AWG ((GAUGE) mm<sup>2</sup>)

## PRODUCT DIMENSIONS & CHARACTERISTICS

AWG size	Nominal cross section conductor [mm <sup>2</sup> ]	Conductor strand count	Nominal thickness insulation [mm]	Diameter conductor [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
8	8.37	7	1.14	5.99	40.45	3.53
6	13.3	7	1.14	6.81	59.85	2.21
4	21.2	7	1.14	8	84.99	1.39
2	33.6	7	1.14	9.47	124.02	0.875
1/0	53.5	19	1.4	11.99	193.17	0.55
2/0	67.4	19	1.4	13.08	232.59	0.436
3/0	85	19	1.4	14.38	283.49	0.346
4/0	107	19	1.4	15.8	358.5	0.274
250	127	37	1.65	17.48	421.07	0.232
300	152	37	1.65	18.82	498.31	0.194
350	177	37	1.65	20.09	569.02	0.166
400	203	37	1.65	21.23	649.75	0.145
500	253	37	1.65	23.34	791.52	0.116
600	304	61	2.03	26.06	1,013.63	0.097
750	380	61	2.03	28.65	1,220.87	0.077
1000	507	61	2.03	32.44	1,535.75	0.058

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