



● **Application**

This XLPE PVC 2 XHHW Aluminum Wire is designed for various applications, including wet and dry environments, conduits, ducts, troughs, trays, direct burial, aerial installation supported by a messenger, and locations where superior electrical properties are essential. These cables can operate continuously at a conductor temperature of up to 90°C for normal operation in wet and dry conditions, 130°C for emergency overload, and 250°C for short circuit conditions. They are suitable for use in Class I, II, and III, Division 2 hazardous locations as per NEC Article 501 and 502. Constructions with three or more conductors are listed for exposed runs (TCER) per NEC 336.10. These cables are silicone-free.

● **Construction**

Conductor: Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836 or compact bare AA-8000 series aluminum alloy, Class B stranded per ASTM.  
 Insulation: Cross-Linked Polyethylene (XLPE) Type XHHW-2.  
 Grounding Conductor: Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836.  
 Filler: Paper filler (cable size 8 & 6 uses Polypropylene filler).  
 Binder: Polyester flat thread binder tape for cable sizes larger than 2 AWG.  
 Overall Jacket: Polyvinyl Chloride (PVC) Jacket.

● **Specification**

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1277 Electrical Power and Control Tray Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Control Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)

● **Eastful Cable Lab**



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction. CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

● **Accreditation**

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



● **National Green Factory**



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

\*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

## ● Technical Parameters

Physical Performance								
Size	Conductor Overall Dia.	Insulation Thickness	Insulation Overall Dia.	Ground	Jacket Thickness	Approx. Outer Dia.	Aluminum Weight	Approx. Weight
AWG/kcmil	inch	mil	inch	No. x AWG	mils	inch	lb/1000ft	lb/1000ft
8	0.134	45		1×8	60	0.604	63	180

Electrical Performance									
Size	Min Bending Radius	Max. Pull Tension	D.C. Resistance @ 25°C	A.C. Resistance @ 90°C	Inductive Reactance @ 60Hz	Shield Short Circuit Current 6 Cycles	Allowable Ampacity at 60°Ct	Allowable Ampacity At 75°Ct	Allowable Ampacity At 90°Ct
AWG/kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	A	A	A	A
8	2.4	297	1.07	1.345	0.034	3785	35	40	45