

# XHHW-2 Building Wire

600V · 90°C Wet & Dry | XLPE Insulated | High Moisture & Heat Resistance

## PRODUCT OVERVIEW

Mirabel Energy USA XHHW-2 wire is a cross-linked polyethylene (XLPE) insulated conductor rated 90°C in both wet and dry environments — providing a significant performance upgrade over PVC-insulated THHN/THWN-2 in demanding installations. The XLPE insulation system delivers superior moisture resistance, higher dielectric strength, greater resistance to chemical and solvent exposure, and better long-term thermal stability compared to thermoplastic alternatives. XHHW-2's 90°C wet rating (vs. 75°C for THWN-2) allows higher ampacity calculations in wet conduit systems per NEC Table 310.16 — reducing conductor size and material cost on heavily loaded circuits. The cross-linked polymer structure also resists deformation at elevated temperatures, making XHHW-2 the preferred choice for service entrance conductors, solar PV array wiring, and applications subject to thermal cycling.

<b>600V</b> Voltage Rating	<b>90°C Wet &amp; Dry</b> Temperature Rating	<b>XLPE</b> Insulation	<b>UL 44 Listed</b> Standard
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## APPLICATIONS

- Service entrance conductors in wet or thermally demanding conduit systems
- Solar PV array wiring and DC combiner box circuits (USE-2 / XHHW-2 dual-rated)
- Industrial feeder circuits in conduit with moisture exposure
- Motor leads and equipment connections in wet process environments
- Utility metering installations and outdoor switchgear cable
- Higher ampacity feeder circuits where 90°C wet rating reduces conductor size

## KEY SPECIFICATIONS

- XHHW-2: XLPE insulation — 90°C wet AND dry (vs. 75°C wet for THWN-2)
- Higher allowable ampacity in wet conduit per NEC Table 310.16
- Cross-linked polyethylene — superior moisture, chemical, and thermal resistance
- Resists insulation deformation at elevated temperatures (no PVC cold flow)
- Available in copper and aluminum, #14 AWG through 1000 kcmil
- Often dual-rated USE-2 / XHHW-2 for solar and underground service applications
- UL 44 listed | Meets NFPA 70 NEC Articles 310 and 338
- Thinner insulation wall vs. MV cable — more flexible, higher fill in conduit

## TECHNICAL SPECIFICATIONS

Parameter	Copper XHHW-2	Aluminum XHHW-2
Voltage Rating	600V	600V
Temp — Dry	90°C	90°C
Temp — Wet	90°C	90°C
Insulation	XLPE	XLPE
Jacket	None (bare XLPE)	None (bare XLPE)
Conductor Sizes	#14 AWG – 1000 kcmil	#8 AWG – 1000 kcmil
Standard	UL 44 / NEC 310	UL 44 / NEC 310

<b>SIZES &amp; CONFIGURATIONS</b> #14 AWG – 1000 kcmil Cu   #8 AWG – 1000 kcmil Al   XLPE insulated	<b>STOCKING LOCATIONS</b> Reno, NV · Houston, TX Standard & project-phased delivery	<b>OEM REPRESENTATIVE</b> GCP Energy LLC — Salt Lake City, UT portal.gcpenergy.us
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