

THHN / THWN-2 Building Wire

600V · 90°C Dry / 75°C Wet | PVC Insulated, Nylon Jacketed | General Purpose Building Wire

PRODUCT OVERVIEW

Mirabel Energy USA THHN/THWN-2 building wire is the industry-standard general-purpose conductor for commercial, industrial, and utility construction across North America. The dual THHN (Thermoplastic High Heat-resistant Nylon) and THWN-2 (Thermoplastic Heat- and Water-resistant Nylon, 90°C wet) rating makes this wire suitable for virtually all conduit and raceway applications in both dry and wet locations — from residential panel feeders and branch circuits to switchgear wiring, motor control center (MCC) panels, and data center power distribution. The nylon jacket provides superior abrasion resistance, enabling long conduit pulls without damage, and the smooth PVC insulation surface reduces pulling friction. Copper conductors are available in solid (#14–#10 AWG) and stranded (#14 AWG through 1000 kcmil) constructions. Aluminum THHN is available in #8 AWG through 1000 kcmil for feeder and service entrance applications.

600V Voltage Rating	90°C Dry / 75°C Wet Temperature Rating	PVC + Nylon Insulation / Jacket	UL 83 Listed Standard
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APPLICATIONS

- Commercial and industrial building branch circuits and feeders
- Service entrance conductors in conduit or raceway
- Switchgear, MCC, and control panel internal wiring
- Data center PDU, RPP, and branch circuit distribution
- Motor and equipment leads in dry and wet industrial locations
- Conduit and cable tray feeder runs — all occupancy types

KEY SPECIFICATIONS

- Dual-rated THHN / THWN-2 — 90°C dry, 75°C wet, 600V
- PVC insulation with nylon jacketing — superior abrasion and pull resistance
- Copper: solid #14–#10 AWG | Stranded #14 AWG – 1000 kcmil
- Aluminum THHN available: #8 AWG – 1000 kcmil (feeder and service use)
- Sunlight resistant jacket available for exposed outdoor conduit runs
- UL 83 listed | Meets NFPA 70 NEC Articles 310 and 338
- Available in standard NEC colors and custom color coding
- Oil and gasoline resistant nylon jacket — suitable for industrial environments

TECHNICAL SPECIFICATIONS

Parameter	Copper THHN/THWN-2	Aluminum THHN/THWN-2
Voltage Rating	600V	600V
Temp — Dry	90°C	90°C
Temp — Wet	75°C	75°C
Insulation	PVC	PVC
Jacket	Nylon	Nylon
Conductor Sizes	#14 AWG – 1000 kcmil	#8 AWG – 1000 kcmil
Standard	UL 83 / NEC 310	UL 83 / NEC 310

SIZES & CONFIGURATIONS #14 AWG – 1000 kcmil Cu #8 AWG – 1000 kcmil Al Solid and stranded	STOCKING LOCATIONS Reno, NV · Houston, TX Standard & project-phased delivery	OEM REPRESENTATIVE GCP Energy LLC — Salt Lake City, UT portal.gcpenergy.us
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