

Copper Building Wire



Copper Building Wire is the most frequently specified wiring solution today for commercial and residential construction projects. General Cable offers a complete line of Copper Building Wire to serve virtually all the requirements of the electrical industry.

For commercial projects, General Cable's THHN wire is widely specified for power distribution. Available in a variety of colors to accommodate customers' needs, THHN can handle most electrical wiring applications, from service entrance and feeders to branch circuits.

For harsh industrial environments, Cross-linked Polyethylene (XLPE) insulation is an ideally suited wiring solution. General Cable's Type XHHW-2 is well suited for building wire power distribution, and our Unicon® XLPE wire and cable products can be direct buried in accordance with the National Electric Code (NEC®). Both products offer excellent electrical, thermal and physical properties.

For residential construction, contractors demand non-metallic (NM) sheathed cable. Types NM and UF are very popular for branch wiring. General Cable's NM sheathed cable is lightweight and easy to install, making it the perfect choice for home building and remodeling.

Residential and commercial service entrance cables are also available from General Cable. Type SE is ideal for carrying electric power from service entrance equipment, and it can be used as branch circuits.

General Cable Type TFFN wire can be utilized in a wide array of applications, including fixture wire, machine tool wire and appliance wiring material.

All General Cable's copper building wire products are stocked in our regional distribution centers along with other frequently used Electrical Distribution core items, including portable cord, industrial flex and datacom cabling.



Phone: 800-243-8020
www.generalcable.com



THHN/THWN-2

PVC, Low-Voltage Power
600 V, Type THHN/THWN-2, Single Conductor, Copper

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil bare annealed stranded copper per ASTM B3 and ASTM B8
- 14 AWG thru 10 AWG solid plain copper per ASTM B3

Insulation:

- Color-coded premium-grade flame-retardant, heat- and moisture-resistant Polyvinyl Chloride (PVC)

Jacket:

- Tough Polyamide (Nylon)

Print:

For 14 AWG solid thru 10 AWG solid:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) THHN/THWN (SIZE) AWG (SIZE mm²) GAS AND OIL RES II 600V VW-1 (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

For 14 AWG strand thru 10 AWG strand:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) THHN/THWN (SIZE) AWG (SIZE mm²) GAS AND OIL RES II 600V VW-1 OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

For 8 AWG thru 1 AWG:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) LOW FRICTION THHN/THWN-2 (SIZE) AWG (SIZE mm²) GAS AND OIL RES II 600V VW-1 OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

For 1/0 and larger, black only:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) LOW FRICTION THHN/THWN-2 (SIZE) AWG (SIZE mm²) GAS AND OIL RES II OR SUN RES FOR CT USE 600V OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)



Print (cont'd.):

For 1/0 and larger, all colors:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) LOW FRICTION THHN/THWN-2 (SIZE) AWG (SIZE mm²) CU GAS AND OIL RES II FOR CT USE 600V OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

Applications:

- General purpose building wire for services, feeders and branch circuits
- Conduit and raceways
- 1/0 and larger for cable tray use

Features:

- Low Friction Nylon jacket provides easy pulling for 8 AWG and larger
- 1/0 AWG and larger are rated for cable tray use
- Rated Gasoline and Oil-Resistant II
- Resistant to abrasion, acids, alkalines, ozone, and water
- For THHN applications, the conductor is appropriate for use in dry locations not to exceed 90°C
- For THWN-2 applications, the conductor is appropriate for wet or dry locations not to exceed 90°C

Features (cont'd.):

- For MTW applications, the conductor is appropriate for use in dry locations at 90°C or not to exceed 60°C in wet locations or where exposed to oil or coolants (with ampacity limited to that for 75°C conductor temperature) as outlined in NFPA79 Electrical Standards for Industrial Machinery
- Sequential foot markings every 2 feet on 8 AWG and larger for easy measuring
- Sunlight-resistant for 1/0 and larger, for black only
- Meets cold bend and cold impact tests at -25°C

Compliances:

Industry Compliances:

- ASTM B3 and B8
- UL Standard 83 – THHN/THWN-2
- UL Standard 1063 for machine tool wire (MTW)
- ICEA S-95-658/NEMA WC70
- NEC® Article 310
- RoHS Compliant
- c(UL) – T90 Nylon

Flame Test Compliances:

- UL 2556 VW-1 rated through 1 AWG
- UL 2556 CT USE 1/0 and larger

Packaging:

- Cut-to-length services available for 8 AWG and larger

COLOR CODE CHART

| COLOR CODE | COLOR | COLOR CODE | COLOR |
|------------|--------|------------|--------|
| 1 | Black | 7 | Blue |
| 2 | White | 8 | Orange |
| 3 | Red | 9 | Gray |
| 4 | Green | A | Purple |
| 5 | Yellow | B | Pink |
| 6 | Brown | | |

PACKAGING CODE CHART

| PACKAGING CODE | PACKAGE |
|----------------|--------------|
| 10 | 2x500' |
| 20 | 4x500' |
| 32 | 500' Reel |
| 33 | 1000' Reel |
| 54 | 2000' Reel |
| 34 | 2500' Reel |
| 55 | 5000' Reel |
| 00 | Cut to order |
| XX | Master Reel |