

QI THHN/THWN-2™ PVC Insulated, 600 V



Building Wire / Copper

Application

CME Wire and Cable offers QI THHN/THWN-2™ conductors in all colors for use in general purpose wiring in accordance with the requirements of National Electrical Code (NEC). Type THHN/THWN-2 conductors are approved for use at a maximum voltage of 600 volts and a maximum conductor temperature of 90°C in wet or dry locations and 75°C when exposed to gasoline and oil. With additional rating of Type MTW, these conductors are rated 90°C in dry locations and 60°C in wet locations or where exposed to oils or coolants.

Features

- Use of lubrication is not mandatory to install QI THHN/THWN-2 conductors in the raceways or cable trays
- PVC insulation offers exceptional electrical, physical and flame-retardant properties

- All sizes meet VW-1 Vertical Flame Test
- Nylon jacket is color coded for visual identification of conductors in electrical installations

Specification

- UL: Standard 83 (THHN/THWN-2) and Standard 1063 (MTW)
- ASTM: B3, B8, and B787
- Federal Specification: A-A-59544

Construction

Conductors: Solid uncoated copper conductors per ASTM B-3. Stranded uncoated copper conductors per ASTM B3, B8 and B787.

Insulation: Polyvinyl Chloride (PVC) per UL 83 and UL 1063.

Jacket (color coded): Low friction tough polyamide, Nylon, per UL 83 and UL 1063.

Copper Conductor
Compressed Stranded

PVC Insulation

Nylon Jacket

Installation Performance

A significant reduction (25 – 30%) in the pulling force is achieved for QI THHN/THWN-2 when compared to the pulling force required for Standard THHN/THWN-2 without any lubricant. Further, this reduction is comparable to the reduction achieved when the Standard THHN/THWN-2 conductors are pulled using a lubricant in identical installation. These results demonstrate that it is feasible to install the QI THHN/THWN-2 conductors without the use of a lubricant in an NEC compliant installation.

Technical Information

Pulling Force for QI THHN/THWN-2

500-500-500-1/0 THHN/THWN-2 Conductors in 3" EMT Conduits with 4 - 90° Bends

