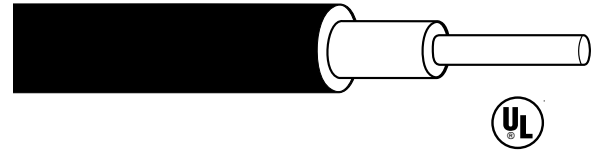


TYPE THHN/THWN
INSULATION: POLYVINYL CHLORIDE
INSULATION JACKET: NYLON
SIZES: 14 AWG - 1000 MCM



1.0 SCOPE:

1.1 This specification covers the construction requirements for building wire for general purpose applications, including irrigation systems, and may be installed in conduit or other recognized raceways, in wet or dry conditions, up to 600 volts, in accordance with the National Electric Code. Federal Specification J-C-30B.

2.0 CONSTRUCTION:

2.1 Conductor:

Stranded or solid soft drawn bare copper meeting the following ASTM requirements:
 B-3, B-8, and B-787 for 14-10 AWG
 B-8 and B-787 for 8-2AWG
 B-8 for 1/0-1000 MCM

2.2 Insulation:

Extruded polyvinyl chloride with an overall nylon jacket..

2.3 Temperature Rating:

For general application, 75°C wet or 90°C dry.

2.4 Surface Print:

Manufacturer's identification, conductor size and type, voltage rating, and UL file number.

2.5 Underwriter's Laboratories Approval:

UL-83 for THHN/THWN
 UL-1063 for MTW
 UL-758 for AWM

| SIZE AWG OR MCM | STRAND- ING | INSULATION THICKNESS (MILS) | | NOMINAL O.D. (INCHES) | APPROXIMATE SHIP WEIGHT (LB/MFT) |
|-----------------------|----------------|--------------------------------|-------|-----------------------------|--|
| | | PVC | NYLON | | |
| 14 | SOLID | 15 | 4 | .102 | 17 |
| 12 | SOLID | 15 | 4 | .118 | 25 |
| 10 | SOLID | 20 | 4 | .150 | 39 |
| 14 | 19 | 15 | 4 | .110 | 18 |
| 12 | 19 | 15 | 4 | .120 | 27 |
| 10 | 19 | 20 | 4 | .161 | 40 |
| 8 | 19 | 30 | 5 | .212 | 69 |
| 6 | 19 | 30 | 5 | .250 | 109 |
| 4 | 19 | 40 | 6 | .318 | 166 |
| 2 | 19 | 40 | 6 | .375 | 254 |
| 1/0 | 19 | 40 | 7 | .470 | 398 |
| 2/0 | 19 | 50 | 7 | .515 | 488 |
| 3/0 | 19 | 50 | 7 | .565 | 603 |
| 4/0 | 19 | 50 | 7 | .620 | 731 |
| 250 | 37 | 60 | 8 | .730 | 903 |
| 300 | 37 | 60 | 8 | .780 | 1060 |
| 350 | 37 | 60 | 8 | .830 | 1211 |
| 400 | 37 | 60 | 8 | .880 | 1332 |
| 500 | 37 | 6 | 8 | .970 | 1735 |
| 600 | 61 | 70 | 9 | 1.060 | 1990 |
| 750 | 61 | 70 | 9 | 1.170 | 2468 |
| 1000 | 61 | 70 | 9 | 1.300 | 3263 |