

PVC/Nylon - Type THHN/THWN (TWN75/T90)

Building Wire

UL: 90°C, 600V

CSA: 90°C, 600V



| IEWC Part Number | AWG | Stranding | Nom. Insulation Thickness | | Nominal Jacket Thickness | | Nominal O.D. | | Approx. Weight | | Ampacity ⁰¹ | UL Type | CSA Type |
|------------------|------|-----------|---------------------------|-----|--------------------------|-----|--------------|------|----------------|-------|------------------------|-------------------|------------|
| | | | in | mm | in | mm | in | mm | lbs/1k ft | kg/km | | | |
| THHN14 | 14 | Solid | 0.015 | 0.4 | 0.004 | 0.1 | 0.102 | 2.6 | 15 | 22 | 15 | THHN, THWN | TWN75, T90 |
| | | 7 | 0.016 | 0.4 | 0.005 | 0.1 | 0.115 | 2.9 | 16 | 24 | 15 | THHN, THWN, MTW | TWN75, T90 |
| | | 19 | 0.015 | 0.4 | 0.004 | 0.1 | 0.109 | 2.8 | 16 | 24 | 15 | THHN, THWN, MTW | TWN75, T90 |
| THHN12 | 12 | Solid | 0.015 | 0.4 | 0.004 | 0.1 | 0.119 | 3.0 | 23 | 34 | 20 | THHN, THWN | TWN75, T90 |
| | | 7 | 0.016 | 0.4 | 0.005 | 0.1 | 0.124 | 3.1 | 23 | 35 | 20 | THHN, THWN, MTW | TWN75, T90 |
| | | 19 | 0.015 | 0.4 | 0.004 | 0.1 | 0.128 | 3.3 | 24 | 36 | 20 | THHN, THWN, MTW | TWN75, T90 |
| THHN10 | 10 | Solid | 0.020 | 0.5 | 0.004 | 0.1 | 0.150 | 3.8 | 36 | 54 | 30 | THHN, THWN | TWN75, T90 |
| | | 7 | 0.021 | 0.5 | 0.005 | 0.1 | 0.158 | 4.0 | 37 | 55 | 30 | THHN, THWN, MTW | TWN75, T90 |
| | | 19 | 0.020 | 0.5 | 0.004 | 0.1 | 0.161 | 4.1 | 38 | 57 | 30 | THHN, THWN, MTW | TWN75, T90 |
| THHN08 | 8 | 19 | 0.030 | 0.8 | 0.005 | 0.1 | 0.213 | 5.4 | 63 | 94 | 55 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN06 | 6 | 19 | 0.030 | 0.8 | 0.005 | 0.1 | 0.249 | 6.3 | 95 | 141 | 75 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN04 | 4 | 19 | 0.040 | 1.0 | 0.006 | 0.2 | 0.318 | 8.1 | 152 | 226 | 95 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN03 | 3 | 19 | 0.040 | 1.0 | 0.006 | 0.2 | 0.346 | 8.8 | 189 | 281 | 110 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN02 | 2 | 19 | 0.040 | 1.0 | 0.006 | 0.2 | 0.378 | 9.6 | 234 | 348 | 130 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN01 | 1 | 19 | 0.050 | 1.3 | 0.007 | 0.2 | 0.435 | 11.0 | 299 | 445 | 150 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN1/0 | 1/0 | 19 | 0.050 | 1.3 | 0.007 | 0.2 | 0.474 | 12.0 | 372 | 554 | 170 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN2/0 | 2/0 | 19 | 0.050 | 1.3 | 0.007 | 0.2 | 0.518 | 13.2 | 462 | 687 | 195 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN3/0 | 3/0 | 19 | 0.050 | 1.3 | 0.007 | 0.2 | 0.568 | 14.4 | 575 | 856 | 225 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN4/0 | 4/0 | 19 | 0.050 | 1.3 | 0.007 | 0.2 | 0.624 | 15.8 | 718 | 1,068 | 260 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN250 | 250 | 37 | 0.060 | 1.5 | 0.008 | 0.2 | 0.678 | 17.2 | 851 | 1,266 | 290 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN300 | 300 | 37 | 0.060 | 1.5 | 0.008 | 0.2 | 0.730 | 18.5 | 1,012 | 1,506 | 320 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN350 | 350 | 37 | 0.060 | 1.5 | 0.008 | 0.2 | 0.777 | 19.7 | 1,174 | 1,747 | 350 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN400 | 400 | 37 | 0.060 | 1.5 | 0.008 | 0.2 | 0.821 | 20.9 | 1,334 | 1,985 | 380 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN500 | 500 | 37 | 0.060 | 1.5 | 0.008 | 0.2 | 0.902 | 22.9 | 1,655 | 2,463 | 430 | THHN, THWN-2, MTW | TWN75, T90 |
| THHN600 | 600 | 61 | 0.070 | 1.8 | 0.009 | 0.2 | 0.998 | 25.3 | 1,987 | 2,957 | 475 | THHN, THWN-2, MTW | - |
| THHN750 | 750 | 61 | 0.070 | 1.8 | 0.009 | 0.2 | 1.126 | 28.6 | 2,464 | 3,666 | 535 | THHN, THWN-2, MTW | - |
| THHN1000 | 1000 | 61 | 0.070 | 1.8 | 0.009 | 0.2 | 1.275 | 32.4 | 3,257 | 4,846 | 615 | THHN, THWN-2, MTW | - |

⁰¹THHN ampacities are for general use with ambient temperature @ 30°C per NEC Table 310.16

Notes

- Soft-annealed, bare copper conductor
- Polyvinyl chloride (PVC) insulation
- Nylon jacket
- RoHS Compliant
- A variety of insulation colors available

Available Certifications

UL: 1316, 1408, 1452, VW-1
 CSA: FT1
 Federal Spec: A-A-59544
 For CT use
 Sunlight Resistant

Applications

For use in manufacturing, machine tool and appliance applications. Rated for continuous use up to 90°C dry as THHN; 75°C dry or wet as THWN; 90°C dry or wet as THWN-2.