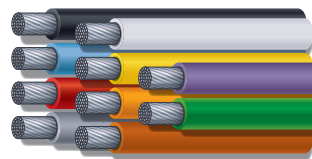


# Aluminum THHN/THWN-2/T90 600V PVC/Nylon Insulation



## APPLICATION:

THHN / THWN-2 / T90 building wire is intended for general purpose applications, and is permitted for use in new construction and rewiring of 600 volt applications. The cable's conductors may be used in wet or dry locations at temperatures not to exceed 90°C. The cable should be installed without the application of pulling lubricant.

## CONDUCTORS:

- Compact bare AA-8000 series aluminum, with Class B stranded per ASTM

## INSULATION:

- Low coefficient of friction ("slick"), abrasion, heat and moisture resistant Polyvinyl Chloride (PVC)

## JACKET:

- A clear abrasion, heat, moisture resistant and low coefficient of friction nylon jacket. Standard stock colors include: black, red, blue, white, brown, orange, yellow, gray, purple and green

## STANDARDS:

- UL 83, UL 1685, cUL
- CSA C22.2 No. 75
- 1/0 & larger are rated for CT use
- NEC & CEC
- NEMA WC-70 / ICEA S-95-658
- ASTM B800, B801, B836
- Federal Specification AA-59544
- VW-1/FT1 Flame Test
- Sunlight resistant / Gas and Oil Resistant II

| Part Number    | Conductor Size | Conductor Diameter | Insulation Thickness | Jacket Thickness | Overall Diameter | Net Weight | Ampacity** |         |         |
|----------------|----------------|--------------------|----------------------|------------------|------------------|------------|------------|---------|---------|
|                | AWG/KCM        | inches             | inches               | inches           | inches           | lbs/kft    | at 60°C    | at 75°C | at 90°C |
| 8-01AL-THHN    | 8              | 0.134              | 0.030                | 0.005            | 0.204            | 27         | 35         | 40      | 45      |
| 6-01AL-THHN    | 6              | 0.169              | 0.030                | 0.005            | 0.239            | 38         | 40         | 50      | 55      |
| 4-01AL-THHN    | 4              | 0.213              | 0.040                | 0.006            | 0.305            | 62         | 55         | 65      | 75      |
| 2-01AL-THHN    | 2              | 0.268              | 0.040                | 0.006            | 0.360            | 91         | 75         | 90      | 100     |
| 1-01AL-THHN    | 1              | 0.299              | 0.050                | 0.007            | 0.413            | 117        | 85         | 100     | 115     |
| 1/0-01AL-THHN  | 1/0            | 0.335              | 0.050                | 0.007            | 0.450            | 141        | 100        | 120     | 135     |
| 2/0-01AL-THHN  | 2/0            | 0.378              | 0.050                | 0.007            | 0.490            | 172        | 115        | 135     | 150     |
| 3/0-01AL-THHN  | 3/0            | 0.423              | 0.050                | 0.007            | 0.537            | 210        | 130        | 155     | 175     |
| 4/0-01AL-THHN  | 4/0            | 0.476              | 0.050                | 0.007            | 0.589            | 257        | 150        | 180     | 205     |
| 250-01AL-THHN  | 250            | 0.520              | 0.060                | 0.008            | 0.656            | 311        | 170        | 205     | 230     |
| 300-01AL-THHN  | 300            | 0.571              | 0.060                | 0.008            | 0.706            | 365        | 190        | 230     | 260     |
| 350-01AL-THHN  | 350            | 0.614              | 0.060                | 0.008            | 0.752            | 418        | 210        | 250     | 280     |
| 400-01AL-THHN  | 400            | 0.657              | 0.060                | 0.008            | 0.795            | 471        | 225        | 270     | 305     |
| 500-01AL-THHN  | 500            | 0.736              | 0.060                | 0.008            | 0.872            | 576        | 260        | 310     | 350     |
| 600-01AL-THHN  | 600            | 0.816              | 0.070                | 0.009            | 0.971            | 700        | 285        | 340     | 385     |
| 700-01AL-THHN  | 700            | 0.877              | 0.070                | 0.009            | 1.035            | 804        | 315        | 375     | 425     |
| 750-01AL-THHN  | 750            | 0.909              | 0.070                | 0.009            | 1.066            | 856        | 320        | 385     | 435     |
| 900-01AL-THHN  | 900            | 0.999              | 0.070                | 0.009            | 1.139            | 1013       | 355        | 425     | 480     |
| 1000-01AL-THHN | 1000           | 1.059              | 0.070                | 0.009            | 1.218            | 1117       | 375        | 445     | 500     |

All values are nominal and subject to correction.

\*\*Ampacities shown are for general use as specified by the National Electrical Code 2017 Edition, Section 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures, the conductor ampacities shall be limited to the following per NEC 110.14(C): 60°C - When terminated to equipment for circuits rated 100 amperes or less marked for 14 through 1 AWG conductors. 75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG. 90°C - THHN dry locations and THWN wet or dry locations for ampacity adjustment purposes using NEC section 310.15.



1-800-945-5542  
www.PriorityWire.com



©2021 Priority Wire & Cable  
10-2021



Powered by Crescent™

\*All items not stocked in all locations. Due to the franchise restrictions, all items may not be available at every location and may be substituted where appropriate. We reserve the right to limit quantities and correct typographical errors.

crescentelectric.com