

PVC/Nylon (THHN/THWN-2) 600V

Series E5000

PRODUCT DESCRIPTION

Type THHN/THWN-2 are soft drawn bare copper conductors, insulated with an abrasion, moisture, heat and sunlight resistant, flame retardant polyvinyl chloride (PVC) and Nylon Jacket.

APPLICATIONS

- Primarily used in conduit, cable tray or other recognized raceways for service, feeders, and branch circuit wiring as specified in the NEC
- Conductors are sunlight resistant and may be used in wet or dry locations at temperatures not to exceed 90°C

FEATURES

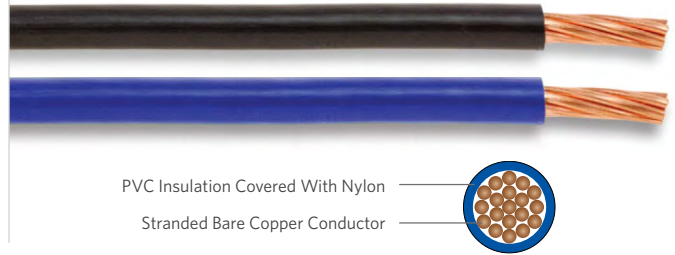
- Rated at 90°C wet or dry
- Excellent sunlight resistance
- 4 AWG through 1 AWG (Green) are CT USE when marked as "EQUIPMENT GROUND"

MARKETS



PRODUCT KEY

| Conductor | Stranding | Voltage | Insulation |
|-----------|-----------|---------|------------|
| Cu | B | 600V | PVC Nylon |



PVC Insulation Covered With Nylon
Stranded Bare Copper Conductor

SPECIFICATIONS

| | |
|------------------------|--|
| Conductor Count | Single conductor |
| Conductor | Soft drawn bare copper, Class B stranding |
| AWG | Copper: Available in 8 AWG through 1000 kcmil |
| Insulation | Polyvinyl chloride (PVC) and Nylon Jacket <ul style="list-style-type: none"> All gauges are type THHN/THWN-2 |
| Color Coding | Black, Red, Green (other colors available upon request) |
| Marking | <p>Smaller than 1/0 AWG: SUPERIOR ESSEX XXAWG THHN OR THWN-2 600V 90C WET OR DRY (UL) VW-1 -40C MADE IN USA MMDDYYYY</p> <p>For 1/0 AWG and larger: SUPERIOR ESSEX XXAWG (or XXXKCMIL) THHN OR THWN-2 600V 90C WET OR DRY(UL) VW-1 CT USE MADE IN USA MMDDYYYY</p> |
| Packaging | Non-returnable wood reels in a variety of lengths and dimensions |
| Performance Compliance | UL® 83 ASTM B8 UL 1685 UL CT Flame Exposure Test |
| Other Compliances | EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant |

PART NUMBERS AND PHYSICAL CHARACTERISTICS

| Part Number | Conductor Size AWG/kcmil | PVC Insulation Nominal Thickness in (mm) | Nylon Jacket Nominal Thickness ¹ in (mm) | Nominal Overall Diameter ¹ in (mm) | Nominal Net Weight ¹ lbs/kft (kg/km) | Ampacity |
|------------------|--------------------------|--|---|---|---|----------|
| E5139-1BAx009900 | 8 | 0.030 (0.76) | 0.005 (0.13) | 0.210 (5.32) | 64 (96) | 55 |
| E5140-1BAx009900 | 6 | 0.030 (0.76) | 0.005 (0.13) | 0.248 (6.28) | 94 (140) | 75 |
| E5141-1BAx009900 | 4 | 0.040 (1.01) | 0.006 (0.15) | 0.317 (8.03) | 153 (228) | 95 |
| E5142-1BAx009900 | 2 | 0.040 (1.01) | 0.006 (0.15) | 0.375 (9.50) | 233 (348) | 110 |
| E5143-1BAx009900 | 1 | 0.050 (1.27) | 0.007 (0.18) | 0.435 (11.02) | 298 (445) | 150 |
| E5144-1BAx009900 | 1/0 | 0.050 (1.27) | 0.007 (0.18) | 0.480 (12.16) | 372 (556) | 170 |
| E5145-1BAx009900 | 2/0 | 0.050 (1.27) | 0.007 (0.18) | 0.518 (13.12) | 462 (690) | 195 |
| E5146-1BAx009900 | 3/0 | 0.050 (1.27) | 0.007 (0.18) | 0.568 (14.39) | 572 (854) | 225 |
| E5147-1BAx009900 | 4/0 | 0.050 (1.27) | 0.007 (0.18) | 0.630 (15.96) | 711 (1,062) | 260 |
| E5148-1BAx009900 | 250 | 0.060 (1.52) | 0.008 (0.20) | 0.678 (17.17) | 849 (1,268) | 290 |
| E5149-1BAx009900 | 350 | 0.060 (1.52) | 0.008 (0.20) | 0.777 (19.68) | 1,170 (1,747) | 350 |
| E5150-1BAx009900 | 500 | 0.060 (1.52) | 0.008 (0.20) | 0.930 (23.56) | 1,640 (2,449) | 430 |
| E5151-1BAx009900 | 750 | 0.060 (1.52) | 0.009 (0.23) | 1.156 (29.28) | 2,466 (3,682) | 535 |
| E5152-1BAx009900 | 1000 | 0.060 (1.52) | 0.009 (0.23) | 1.275 (32.29) | 3254 (4,859) | 615 |

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request. Ampacities are in accordance with NEC table 310.16, for 90°C. UL is a registered trademark of UL LLC.

JACKET COLORS

²Replace "x" with: Black = 0, Brown = 1, Red = 2, Orange = 3, Yellow = 4, Green = 5, Blue = 6, Purple = 7, Gray = 8, White = 9

²"x" in the part number is to be substituted based on the color of the insulation (e.g., 0=Black, 1=Brown, 2=Red, 3=Orange, 4=Yellow, 5=Green, 6=Blue, 7=Purple, 8=Gray and 9 = White.)