

# Wire - Type TFFN

## Applications

Type TFFN conductors are primarily used as fixture wire as defined by the National Electrical Code (NEC) at temperatures not to exceed 90°C in dry locations. All conductors are permitted for new construction or rewiring for 600-volt applications. Rated gasoline and oil-resistant II.

TFFN wire is sold in 500 foot spools; certain sizes are also available in 2500 foot reels.



## Conductors

Stranded, uncoated copper conductors per ASTM-B174

## Insulation

Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame-retardant compound

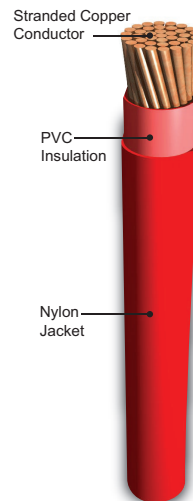
## Jacket

A tough, polyamide, Nylon outer covering

## Ratings

- UL Standards UL-62, UL-66, UL-758 and UL-1063
- AWM Spec 1310, 1312, 1316, 1318, 1321 Canadian Standard Association C22.2 No. 127
- NFPA 70: National Electrical Code (NEC) ARRA 2009; Section 1605 "Buy American" Compliant
- RoHS

## Type TFFN Wire



*Please Note: Our prices on wire are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.*

| Type TFFN Wire Specifications |                   |  |                               |       |                          |      |                       |                                 |                               |
|-------------------------------|-------------------|--|-------------------------------|-------|--------------------------|------|-----------------------|---------------------------------|-------------------------------|
| Size (AWG or kcmil)           | Number of Strands | Cross-sectional Area (mm <sup>2</sup> ) (According to NEC) | Insulation Thickness (inches) |       | Overall Outside Diameter |      | Allowable Ampacities* | Approx. Weight (lbs) 500'/2500' | Standard Packaging spool/reel |
|                               |                   |  | PVC                           | Nylon | (inches)                 | (mm) |                       |                                 |                               |
| 18                            | 16                | 3.548  | 0.015                         | 0.004 | 0.088                    | 2.24 | 6                     | 4 / 20                          | 500' or 2500'                 |
| 16                            | 26                | 4.645  | 0.015                         | 0.004 | 0.101                    | 2.57 | 8                     | 5.5 / 27.5                      |                               |

*\*Note: Allowable ampacity shown above is per the National Electric Code. The above data is approximate and subject to normal manufacturing tolerances.*

| Type TFFN Wire  |                               |         |  |                   |                |         |
|-----------------|-------------------------------|---------|--|-------------------|----------------|---------|
| Part Number     | Insulation Color              | Gauge   | Description  | Spool/Reel Length | Approx. Weight | Price   |
| <b>TFFN18BK</b> | Black                         | 18AWG   | Type TFFN wire, bare copper, 16 strands, 600 Volts | 500'              | 4 lbs          | \$29.50 |
| <b>TFFN18WH</b> | White                         |         |  |                   |                | \$29.50 |
| <b>TFFN18RD</b> | Red                           |         |  |                   |                | \$29.50 |
| <b>TFFN18BL</b> | Blue                          |         |  |                   |                | \$29.50 |
| <b>TFFN18GN</b> | Green                         |         |  |                   |                | \$29.50 |
| <b>TFFN18YL</b> | Yellow                        |         |  |                   |                | \$29.50 |
| <b>TFFN18OR</b> | Orange                        |         |  |                   |                | \$29.50 |
| <b>TFFN18BN</b> | Brown                         |         |  |                   |                | \$29.50 |
| <b>TFFN18PL</b> | Purple                        |         |  |                   |                | \$29.50 |
| <b>TFFN18GY</b> | Gray                          |         |  |                   |                | \$29.50 |
| <b>TFFN18BW</b> | Blue with White spiral stripe |         |  |                   |                | \$37.50 |
| <b>TFFN16BK</b> | Black                         |         |  |                   |                | 16AWG   |
| <b>TFFN16WH</b> | White                         | \$40.00 |  |                   |                |         |
| <b>TFFN16RD</b> | Red                           | \$40.00 |  |                   |                |         |
| <b>TFFN16BL</b> | Blue                          | \$40.00 |  |                   |                |         |
| <b>TFFN16GN</b> | Green                         | \$40.00 |  |                   |                |         |
| <b>TFFN16YL</b> | Yellow                        | \$40.00 |  |                   |                |         |
| <b>TFFN16OR</b> | Orange                        | \$40.00 |  |                   |                |         |
| <b>TFFN16BN</b> | Brown                         | \$40.00 |  |                   |                |         |
| <b>TFFN16GY</b> | Gray                          | \$40.00 |  |                   |                |         |
| <b>TFFN16BW</b> | Blue with White spiral stripe | \$48.00 |  |                   |                |         |

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| Type TFFN Wire    |                               |       |  |                   |                |          |
|-------------------|-------------------------------|-------|--|-------------------|----------------|----------|
| Part Number       | Color                         | Gauge | Description  | Spool/Reel Length | Approx. Weight | Price    |
| <b>TFFN18BK25</b> | Black                         | 18AWG | Type TFFN wire, bare copper, 16 strands, 600 Volts | 2500'             | 20 lbs         | \$147.00 |
| <b>TFFN18WH25</b> | White                         |       |  |                   |                | \$147.00 |
| <b>TFFN18RD25</b> | Red                           |       |  |                   |                | \$147.00 |
| <b>TFFN18BL25</b> | Blue                          |       |  |                   |                | \$147.00 |
| <b>TFFN18GN25</b> | Green                         |       |  |                   |                | \$147.00 |
| <b>TFFN18YL25</b> | Yellow                        |       |  |                   |                | \$147.00 |
| <b>TFFN18OR25</b> | Orange                        |       |  |                   |                | \$147.00 |
| <b>TFFN18BN25</b> | Brown                         |       |  |                   |                | \$147.00 |
| <b>TFFN18PL25</b> | Purple                        |       |  |                   |                | \$147.00 |
| <b>TFFN18GY25</b> | Gray                          |       |  |                   |                | \$147.00 |
| <b>TFFN18BW25</b> | Blue with White spiral stripe |       |  |                   |                | \$187.00 |
| <b>TFFN16BK25</b> | Black                         | 16AWG | Type TFFN wire, bare copper, 26 strands, 600 Volts | 2500'             | 27.5 lbs       | \$200.00 |
| <b>TFFN16WH25</b> | White                         |       |  |                   |                | \$200.00 |
| <b>TFFN16RD25</b> | Red                           |       |  |                   |                | \$200.00 |
| <b>TFFN16BL25</b> | Blue                          |       |  |                   |                | \$200.00 |
| <b>TFFN16GN25</b> | Green                         |       |  |                   |                | \$200.00 |
| <b>TFFN16YL25</b> | Yellow                        |       |  |                   |                | \$200.00 |
| <b>TFFN16OR25</b> | Orange                        |       |  |                   |                | \$200.00 |
| <b>TFFN16BN25</b> | Brown                         |       |  |                   |                | \$200.00 |
| <b>TFFN16PL25</b> | Purple                        |       |  |                   |                | \$200.00 |
| <b>TFFN16GY25</b> | Gray                          |       |  |                   |                | \$200.00 |
| <b>TFFN16BW25</b> | Blue with White spiral stripe |       |  |                   |                | \$240.00 |

## Gauge Conversion Table

| <b>American Wire Gauge Conversion Chart*</b>  |                 |         |                 |
|---|-----------------|---------|-----------------|
| This cross reference shows equivalent nominal values. Actual cross sections may vary. |                 |         |                 |
| AWG   | mm <sup>2</sup> | AWG     | mm <sup>2</sup> |
| 30  | 0.05            | 6       | 16              |
| 28  | 0.08            | 4       | 25              |
| 26  | 0.14            | 2       | 35              |
| 24  | 0.25            | 1       | 50              |
| 22  | 0.34            | 1/0     | 55              |
| 21  | 0.38            | 2/0     | 70              |
| 20  | 0.50            | 3/0     | 95              |
| 18  | 0.75            | 4/0     | 120             |
| 17  | 1.00            | 300MCM  | 150             |
| 16  | 1.50            | 350MCM  | 185             |
| 14  | 2.50            | 500MCM  | 240             |
| 12  | 4               | 600MCM  | 300             |
| 10  | 6               | 750MCM  | 400             |
| 8   | 10              | 1000MCM | 500             |

**\*Note: Table shows commercially used equivalent values.**