

# Wire – TFFN Type



106100602440  
TFFN16WH

## Applications

Type TFFN (stranded) conductors are primarily used as fixture wire as specified by the National Electrical Code (NEC), at temperatures not to exceed 90°C in dry locations. Voltage rating is 600 volts.

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

## Features

### Conductors

Stranded, uncoated copper conductors per ASTM-B3, ASTM-B787 and ASTM-B8

### Insulation

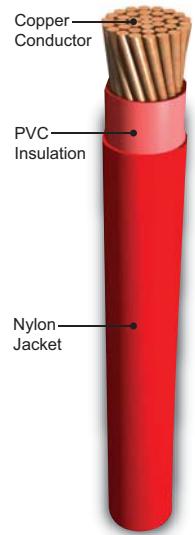
Color-coded Polyvinyl Chloride (PVC) heat- and moisture-resistant, flame-retardant compound per UL-1063 and UL-83

### Jacket

Tough, polyamide, nylon outer covering per UL-1063 and UL-83. Slick Nylon outer jacket for easy pulling.

## Ratings

VW-1 rated and rated "gasoline and oil resistant II"



TFFN Type

Type TFFN Wire Specifications									
Size (AWG or kcmil)	Number of Strands	Cross-sectional Area (mm <sup>2</sup> ) (According to NEC)	Insulation Thickness (inches)	Nylon Jacket Thickness (inches)	Overall Outside Diameter		Allowable Ampacities*	Approx. Weight (lbs) 500'/2500'	Standard Packaging spool/reel
					(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	2.545	8	5.5/27.5	

\*Note: Allowable ampacity shown above is per the 2005 National Electrical Code, Section 402, Table 402.5. The above data is approximate and subject to normal manufacturing tolerances.

Type TFFN Wire						
Part Number	Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
TFFN18BK	Black	18 AWG	Type TFFN copper wire, 16 strands, 600 Volts	500'	4 lbs	<--->
TFFN18WH	White					<--->
TFFN18RD	Red					<--->
TFFN18BL	Blue					<--->
TFFN18GN	Green					<--->
TFFN18YL	Yellow					<--->
TFFN18OR	Orange					<--->
TFFN18BN	Brown					<--->
TFFN18PK	Pink					<--->
TFFN18PL	Purple					<--->
TFFN18GY	Gray					<--->
TFFN18TN	Tan					<--->
TFFN18BW	Blue/White					<--->
TFFN16BK	Black					16 AWG
TFFN16WH	White	<--->				
TFFN16RD	Red	<--->				
TFFN16BL	Blue	<--->				
TFFN16GN	Green	<--->				
TFFN16YL	Yellow	<--->				
TFFN16OR	Orange	<--->				
TFFN16BN	Brown	<--->				
TFFN16GY	Gray	<--->				
TFFN16BW	Blue/White	<--->				

# Wire – TFFN Type

Type TFFN Wire						
Part Number	Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
<b>TFFN18BK25</b>	Black	18 AWG	Type TFFN copper wire, 16 strands, 600 Volts	2500'	20 lbs	<-->
<b>TFFN18WH25</b>	White					<-->
<b>TFFN18RD25</b>	Red					<-->
<b>TFFN18BL25</b>	Blue					<-->
<b>TFFN18GN25</b>	Green					<-->
<b>TFFN18YL25</b>	Yellow					<-->
<b>TFFN18OR25</b>	Orange					<-->
<b>TFFN18BN25</b>	Brown					<-->
<b>TFFN18PK25</b>	Pink					<-->
<b>TFFN18PL25</b>	Purple					<-->
<b>TFFN18GY25</b>	Gray					<-->
<b>TFFN18TN25</b>	Tan					<-->
<b>TFFN18BW25</b>	Blue/White					<-->
<b>TFFN16BK25</b>	Black					16 AWG
<b>TFFN16WH25</b>	White	<-->				
<b>TFFN16RD25</b>	Red	<-->				
<b>TFFN16BL25</b>	Blue	<-->				
<b>TFFN16GN25</b>	Green	<-->				
<b>TFFN16YL25</b>	Yellow	<-->				
<b>TFFN16OR25</b>	Orange	<-->				
<b>TFFN16BN25</b>	Brown	<-->				
<b>TFFN16PK25</b>	Pink	<-->				
<b>TFFN16PL25</b>	Purple	<-->				
<b>TFFN16GY25</b>	Gray	<-->				
<b>TFFN16TN25</b>	Tan	<-->				
<b>TFFN16BW25</b>	Blue/White	<-->				

# Wire – Gauge Conversion Tables

<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.**

You will find product MSDS information and a complete glossary of wire terminology on our Web site at <http://support.automationdirect.com/products/wire.html>