



ELLIOTT ELECTRIC SUPPLY

We Deliver...Lower Cost, Quality Products, & Personal Service

3804 South Street
75964-7263, TX Nacogdoches
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TFFN18STRD2500 TFFN 18 STR Red 2500

Southwire Company



Catalog Number	TFFN18STRD2500
Manufacturer	Southwire Company
Description	Fixture Wire, TFFN, MTW/Awm Type; 2500 FT; 85 Mil Outer Diameter; Annealed Soft Copper Conductor Material; UL 66 Approval; 600 V Voltage Rating; 105 Deg C Temperature Rating; PVC/Nylon Insulation Material; 18 Awg Conductor Size; Spool Package Type
Weight per unit	0.0071 (lbs/ft)
Product Category	TFFN-STR (Stranded)

Features

Conductor Size	18 AWG
Number of Conductors	1 PH
Stranding	16 STRANDS
Voltage Rating	600 V

Material, Color, and Finish

Conductor Material	ANNEALED SOFT COPPER
Insulation Material	PVC/NYLON
Jacket Color	RED

Dimensions and Weight

Length	2500 FT
Length in ft	2500 sq ft
Outer Diameter	85 MIL

Descriptions

Additional Information	RoHS Compatible; Applicable Standard NEC; Current Rating 6 Ampere (TFFN), 7 Ampere (MTW)
Commodity Description	COPPER BUILDING WIRE-TFFN-STR
Description	TFFN 18 STR RED 2500
Long Description	FIXTURE WIRE, TFFN, MTW/AWM TYPE; 2500 FT; 85 MIL OUTER DIAMETER; ANNEALED SOFT COPPER CONDUCTOR MATERIAL; UL 66 APPROVAL; 600 V VOLTAGE RATING; 105 DEG C TEMPERATURE RATING; PVC/NYLON INSULATION MATERIAL; 18 AWG CONDUCTOR SIZE; SPOOL PACKAGE TYPE
Product Type	Fixture Wire



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Manufacturer Information

Brand	Copper
GTIN	00032886226229
Manufacturers Part Number	27023105
UPC	032886226229

Taxonomies, Classifications, and Categories

Category Description	BUILDING WIRE
Type	TFFN, MTW/AWM

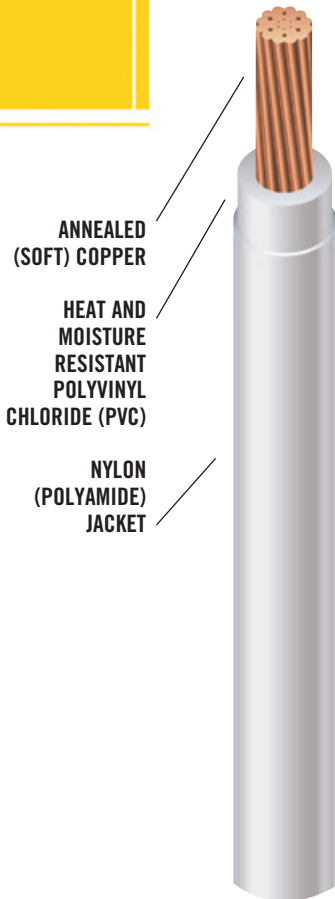
Packaging

Carton	2500
Package Type	SPOOL
Weight Per foot	0.0071

Uses, Certifications, and Standards

Approval	UL 66
Temperature Rating	90 TO 105 DEG C

TFFN/TFN/TEWN



600 Volt

Copper Conductor

Thermoplastic Insulation/Nylon Sheath

Heat, Moisture, Oil and Gasoline Resistant¹

Rated MTW and 105°C AWM

TFN Also Available

APPLICATIONS Suitable for use as follows:

- Southwire Type TFFN or MTW or AWM may be used as fixture wire, machine tool wiring, or appliance wiring material as specified in the National Electrical Code^{®2}
- When used as Type TFFN, conductor is suitable for use at temperatures not to exceed 90°C
- When used as Type MTW, conductor is suitable for use in wet locations or when exposed to oil or coolant at temperatures not to exceed 60°C or dry locations at temperatures not to exceed 90°C (with ampacity limited to that for 75°C conductor temperature per NFPA 79)
- Conductor temperatures not to exceed 105°C in dry locations when rated AWM and used as appliance wiring material
- Voltage for all applications is 600 volts

STANDARDS & REFERENCES

Southwire Type TFFN or MTW or AWM meets or exceeds UL Standard 66 and requirements of the National Electrical Code.[®] RoHS Compliant.

CONSTRUCTION

- Southwire Type TFFN or MTW or AWM copper conductors are annealed (soft) copper, insulated with a tough, heat and moisture resistant polyvinyl chloride (PVC), over which a nylon (polyamide) jacket is applied
- Available in black, white, red, blue, green, yellow, orange, brown, purple, grey and pink; some colors standard, some subject to economic order quantity

SPECIFICATIONS

- **TFFN:**
Conductors shall be UL-listed Type TFFN or MTW or AWM gasoline and oil resistant II, suitable for operation at 600 volts as specified in the National Electrical Code.[®] Conductors shall be annealed copper, insulated with high-heat and moisture resistant PVC, jacketed with abrasion, moisture, gasoline and oil resistant nylon, as manufactured by Southwire Company or approved equal.
- **TFN:**
Southwire Type TFN conductors may be used as fixture wire and as permitted for fire protective signal circuits as specified in the National Electrical Code.[®] at conductor temperatures not to exceed 90°C or 105°C when used as AWM. Voltage rating for all applications is 600 volts.

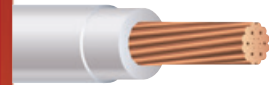
* rated -2 for 8 AWG and larger only

¹ Oil and gasoline resistant II as defined by Underwriters Laboratories

² 2005 Edition



green Spec[®]
RoHS Compliant
2002/95/EC



HVAC

TFN/TFN/TEWN

WEIGHTS, MEASUREMENTS, AND PACKAGING

SIZE (AWG)	NUMBER OF STRANDS	VINYL THICKNESS (mils)	NYLON JACKET (mils)	NOMINAL O.D. (mils)	APPROX. NET WEIGHT PER (lbs/1000 ft)	ALLOWABLE AMPACITIES**		STANDARD PACKAGE*
						TFN	MTW	
18	16	15	4	85	7	6	7	DNFP
16	26	15	4	99	11	8	10	DNFP

*Four 500' spools per carton.
 **Ampacities shown are for general use as specified by the National Electrical Code®, 2005 Edition. TFN as specified by section 402.5 and MTW as specified by NFPA 79.

STANDARD PACKAGE CODES
 F – 500 ft. spool
 N – 2000 ft. carton
 D – 2500 ft. spool
 P – Drum

WEIGHTS, MEASUREMENTS, AND PACKAGING

SIZE (AWG)	NUMBER OF STRANDS	VINYL THICKNESS (mils)	NYLON JACKET (mils)	NOMINAL O.D. (mils)	APPROX. NET WEIGHT PER (lbs/1000 ft)	ALLOWABLE AMPACITIES**		STANDARD PACKAGE TFN*
						TFN	MTW	
18	1	15	4	78	7	6		DNFP
18	7	15	4	82	7	6		DNFP
16	1	15	4	89	10	8		DNFP
16	7	15	4	94	11	8		DNFP

*Four 500' spools per carton.
 **Ampacities shown are for general use as specified by the National Electrical Code®, 2005 Edition. TFN as specified by section 402.5.

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