TFFN/TFN/TEWN

600 Volt

Copper Conductor

Thermoplastic Insulation/Nylon Sheath Heat, Moisture, Oil, and Gasoline Resistant[1]

Also Rated MTW and 105°C AWM

Also Available, TFN

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.

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, gray, 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

Southwire® OEM Division

UL LISTED

greenSpec™ RoHS Compliant

WEIGHTS, MEASUREMENTS AND PACKAGING

SIZE (AWG)	NUMBER OF STRANDS	VINYL THICKNESS (mils)	NYLON JACKET (mils)	NOMINAL O.D. (mils)	APPROX. NET WEIGHT PER 1000 FT. (lbs)	ALLOWABLE AMPACITIES†		STANDARD PACKAGE*
						TFFN	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. TFFN 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 1000 FT. (lbs)	ALLOWABLE AMPACITIES†	STANDARD PACKAGE TFN*
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.

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