# TFFN/TFN/TEWN

#### A P P L I C A T I O N S 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<sup>®2</sup>
- 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.<sup>®</sup> RoHS Compliant.

### C O N S T R U C T I O N

- 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

## S P E C I F I C A T I O N S

• 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.<sup>®</sup> 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<sup>®</sup> 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

<sup>1</sup> Oil and gasoline resistant II as defined by Underwriters Laboratories

<sup>2</sup> 2005 Edition



green (Spec<sup>®</sup> RoHS Compliant 2002/95/EC

600 Volt

ANNEALED (SOFT) COPPER

HEAT AND

MOISTURE

RESISTANT POLYVINYL

NYLON

JACKET

**CHLORIDE (PVC)** 

(POLYAMIDE)

**Copper Conductor** 

Thermoplastic Insulation/Nylon Sheath

Heat, Moisture, Oil and Gasoline Resistant<sup>1</sup>

Rated MTW and 105°C AWM

TFN Also Available



WEIGHTS, MEASUREMENTS, AND PACKAGING										
SIZE (AWG)	NUMBER OF Strands	VINYL THICKNESS	NYLON Jacket	(mils) WEIGHT		WEIGHT PER AMP		VABLE Ities**	STANDARD Package*	
(AWG)	STRANDS	(mils)	(mils)	(IIIIS)	(lbs/1000	) ft)	TFFN	MTW	FAUNAGE	
18	16	15	4	85	7		6	7	DNFP	
16	26	15	4	99	11	8 10			DNFP	
**Ampacities sh	*Four 500' spools per carton. **Ampacities shown are for general use as specified by the National Electrical Code <sup>®</sup> , 2005 Edition. TFFN as specified by section 402.5 and MTW as specified by NFPA 79. D = 2500 ft. spool D = 2500 ft. spool									

D – 2500 P – Drum

WEIGHTS,	MEASURE	<b>МЕМТЅ</b> ,	AND	PACKAGING
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SIZE (AWG)	NUMBER OF Strands	VINYL THICKNESS (mils)	NYLON JACKET (mils)	NOMINAL O.D. (mils)	APPROX. NET WEIGHT PER (Ibs/1000 ft)		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
	ols per carton. nown are for genera d by section 402.5	Edition.	F – 5 N – D – 5	NDARD PACKAGE ( 500 ft. spool 2000 ft. carton 2500 ft. spool Drum	CODES			

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