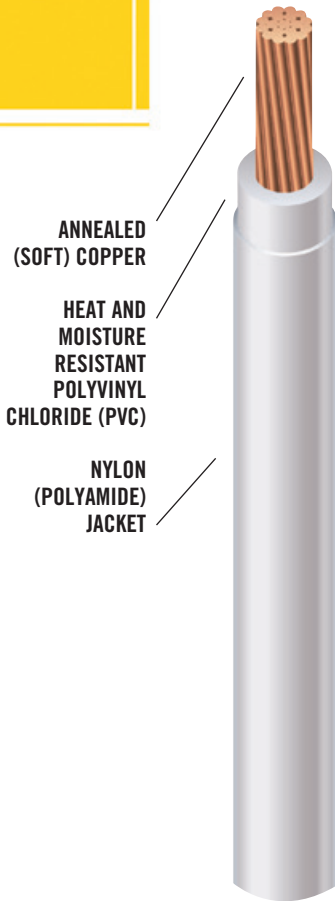


# TFFN/TFN/TEWN



600 Volt

Copper Conductor

Thermoplastic Insulation/Nylon Sheath

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

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<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.

## 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.<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.

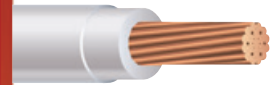
\* rated -2 for 8 AWG and larger only

<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



## 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

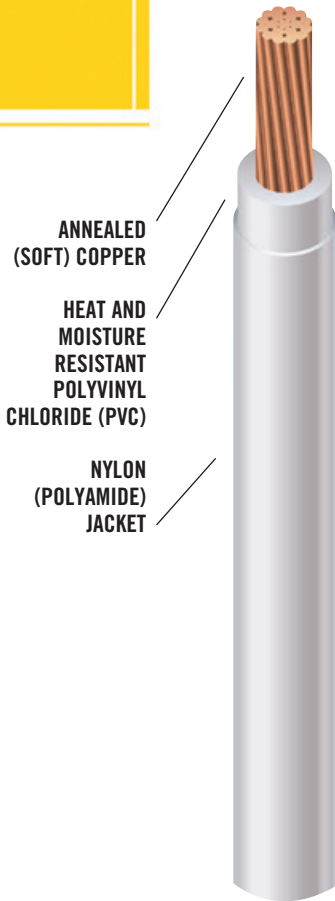
### WEIGHTS, MEASUREMENTS, AND PACKAGING

| 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                  |

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# TFFN/TFN/TEWN



600 Volt

Copper Conductor

Thermoplastic Insulation/Nylon Sheath

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

Rated MTW and 105°C AWM

TFN Also Available

## APPLICATIONS Suitable for use as follows:

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- 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.

## 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
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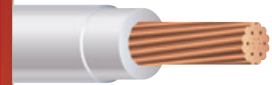
\* rated -2 for 8 AWG and larger only

<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



**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.

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**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                  |
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