

COPPER BUILDING WIRE

TFFN

**600 Volt. Copper Conductor. Thermoplastic Insulation / Nylon Sheath.
Heat, Moisture, Oil, and Gasoline Resistant¹.**



APPLICATIONS

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 Code². 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.

SPECIFICATIONS

Type TFFN or MTW or AWM meets or exceeds UL standard 62 and requirements of the National Electrical Code.

CONSTRUCTION

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.

TFFN

| PWC Catalog # | Size (AWG) | Number of Strands | Vinyl Insulation (MILS) | Nylon Jacket (MILS) | Nominal O.D. | Approx. Weight 1000' | Allowable Ampacities+ | |
|---------------|------------|-------------------|-------------------------|---------------------|--------------|----------------------|-----------------------|-----|
| | | | | | | | TFFN | MTW |
| 06-0043 | 18 | 16 | 15 | 4 | .085 | 7 | 6 | 7 |
| 06-0045 | 16 | 26 | 15 | 4 | .099 | 11 | 8 | 10 |

+ Ampacities shown are for general use as specified by the National Electrical Code, 1999 Edition. TFFN as specified by section 402-5 and MTW as specified by NFPA 79.

RECOMMENDED SAMPLE SPECIFICATIONS:

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.

TFN

| PWC Catalog # | Size (AWG) | Number of Strands | Vinyl Insulation (MILS) | Nylon Jacket (MILS) | Nominal O.D. | Approx. Weight 1000' | Allowable Ampacity+ |
|---------------|------------|-------------------|-------------------------|---------------------|--------------|----------------------|---------------------|
| 06-0047 | 18 | 1 | 15 | 4 | .078 | 7 | 6 |
| 06-0049 | 18 | 7 | 15 | 4 | .082 | 7 | 6 |
| 06-0051 | 16 | 1 | 15 | 4 | .089 | 10 | 8 |
| 06-0053 | 16 | 7 | 15 | 4 | .094 | 11 | 8 |

+ Ampacities shown are for general use as specified by the National Electrical Code, 1999 Edition. TFN as specified by section 402-5.

RECOMMENDED SAMPLE SPECIFICATIONS:

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.

¹ Oil and gasoline resistance II as defined by Underwriters Laboratories.

² 1999 Edition.

> Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.