

# TYPE TFFN / TFN / TEWN COPPER CONDUCTOR

## ENGINEERING SPECIFICATIONS

### Standards

Underwriters Laboratories Standards; UL-62, UL-66, UL-758, UL-1063, UL-2556; AWM SPEC 1310, 1312, 1316, 1318, 1321; Canadian Standard Association C22.2 No. 127; NFPA 70 (NEC®); ARRA 2009 Section 1605 "Buy American" Compliant; MasterSpec Division 26 Sections 260519, 260523; Canadian UL-Listing #E-156878



Listed E-156878

## CONSTRUCTION

### Conductors

Solid, uncoated copper conductors per ASTM-B3; Stranded, uncoated copper conductors per ASTM-B174

### Insulation

Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame retardant compound, and flexible cord and fixture

### Jacket

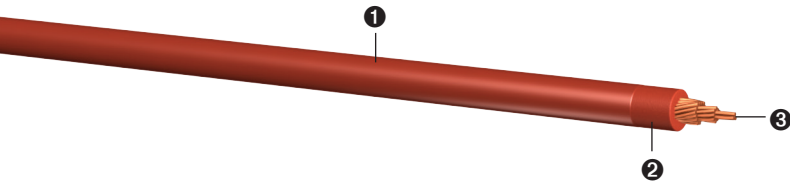
A tough, polyamide, Nylon outer covering

## APPLICATIONS

Type TFFN (stranded) or TFN (solid) conductors are primarily used as fixture wire as defined by the National Electrical Code (NEC) at temperatures not to exceed 90°C in dry locations. For applications requiring Type MTW, the conductor is permitted for use in dry locations at 90°C or not to exceed 60°C in wet locations or where exposed to oils or coolants. For applications requiring Type AWM, conductor is appropriate for use at temperatures not exceeding 105°C in dry locations. All conductors are permitted for new construction or rewiring for 600-volt applications.

## FEATURES

All sizes are rated gasoline and oil-resistant II.



- 1 Nylon Jacket
- 2 PVC Insulation
- 3 Stranded or Solid Copper Conductor

### TFFN Copper Conductor

Size (AWG) and Number of Conductors	No. of Strands	PVC Insulation Thickness (Conductor)		Nylon Jacket Thickness		Outside Diameter		Approximate Net Weight		Allowable Ampacity (Amps) <sup>1</sup>	Standard Packaging (ft)
		(mm)	(in)	(mm)	(in)	(mm)	(in)	(kg/km)	(lbs/1000ft)		
18	16	0.380	0.015	0.100	0.004	2.24	0.088	12	8	6	2000' Carton (4x500), 2500' Reels
16	26	0.380	0.015	0.100	0.004	2.57	0.101	16	11	8	2000' Carton (4x500), 2500' Reels

### TFN Copper Conductor

Size (AWG) and Number of Conductors	No. of Strands	PVC Insulation Thickness (Conductor)		Nylon Jacket Thickness		Outside Diameter		Approximate Net Weight		Allowable Ampacity (Amps) <sup>1</sup>	Standard Packaging (ft)
		(mm)	(in)	(mm)	(in)	(mm)	(in)	(kg/km)	(lbs/1000ft)		
18	Solid	0.380	0.015	0.100	0.004	1.99	0.0783	12	8	6	2000' Carton (4x500), 2500' Reels
16	Solid	0.380	0.015	0.100	0.004	2.26	0.0888	16	11	8	2000' Carton (4x500), 2500' Reels

<sup>1</sup> Allowable ampacity shown above is per the National Electrical Code, Table 402.5. The above data is approximate and subject to normal manufacturing tolerances. The above data is approximate and subject to normal manufacturing tolerances.

#### PRINT LEGEND:

CONDUCTOR SIZES 18 AWG THROUGH 16 AWG SOLID: ENCORE WIRE CORPORATION (SIZE) AWG TYPE TFN OR AWM GRII 600 VOLTS (UL)

CONDUCTOR SIZES 18 AWG THROUGH 16 AWG STRANDED: ENCORE WIRE CORPORATION (SIZE) AWG TYPE MTW OR TFFN OR AWM GRII VW-I 600 VOLTS (UL) OR AWM OR C (UL) TYPE TEWN FT1