

TFFN/TEWN PVC Insulated , Nylon Jacketed

600 V Copper Fixture Wire

Application

CME Wire and Cable TFFN or MTW or AWM and TEWN conductors in soft copper are available in all colors for use in fixture wire purpose wiring in accordance with the requirements of NFPA 70 (NEC®) article 402. Approved for use at maximum voltage of 600 volts and maximum conductor temperature of:

- 90 °C (194 °F) in dry locations for TFFN;
- 90 °C (194 °F) in dry location, or 60 °C (140 °F) in wet locations or where oils or coolants are present for MTW; and
- 105 °C (221 °F) in dry locations for AWM and used as appliance wiring material.

This conductor shall be permitted for installations of luminaries and in similar equipment where

enclosed or protected and nor subject to bending or twisting in use, or for connecting luminaries to the branch-circuits conductors supplying the luminaries.

Features

TFFN or MTW or AWM and TEWN:

18 AWG size are in 16 strands (30 AWG wire).

16 AWG size are in 19 strands.

RoHS compliant.

Specifications

UL: Standard 66 (Fixture Wire), Standard 758 (Appliance Wire Material), Standard 1063 (Machine Tool Wire).

CSA: C22.2.127 (Equipment and Lead Wires).

ASTM: B3, B8, and B174.

ANSI/NFPA 70: National Electric Code (NEC®).

Engineering Information

1. Conductors: Stranded uncoated copper conductors per ASTM B3 and B8 as applicable.

2. Insulation: Polyvinyl Chloride (PVC) per UL 66, UL 758, UL 1063 and CSA C22.2.127.

3. Jacket: Nylon, per UL 66, UL 758, UL 1063 and CSA C22.2.127.



Technical Data

TFFN

Size AWG	Number of Strands	PVC Insulation Thickness	Nylon Jacket Thickness	Nominal Outside Diameter	Ampacity*	Approximate Nominal Mass	Standard Packaging
		(in / mm)	(in / mm)	(in / mm)		lb/kft	
16	19	0.015 / 0.38	0.004 / 0.10	0.100 / 2.55	8	11	500' (4x500, Carton) 1000' 2500'
18	16	0.015 / 0.38	0.004 / 0.10	0.088 / 2.24	6	8	500' (4x500, Carton) 1000' 2500'

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

* Ampacity values shown above are per the National Electrical Code 2011 section 402.5.

PRINT LEGENDS:

STRANDED:

CME WIRE & CABLE™ E131945 S (UL) TYPE TFFN or MTW or AWM 18 AWG (0,823 mm²) RoHS ... LL84668 CSA TYPE TEWN 105 °C 600 V FT1

CME WIRE & CABLE™ E131945 S (UL) TYPE TFFN or MTW or AWM 16 AWG (1,31 mm²) RoHS ... LL84668 CSA TYPE TEWN 105 °C 600 V FT1

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