

Thermoplastic Nylon Wire

TFFN / THHN



Overview

Annealed, bare copper conductor with a Polyvinyl Chloride (PVC) jacket. Commonly used in control cabinets, machine tool applications, fixture wire, and appliance wire applications.

Approvals

- UL:
- Standard 1063, subject 758
 - VW-1 flame test
 - Style 1015
 - Gasoline and oil resistant II

CSA: • 22.2 No. 127

RoHS: • Compliant

Fed. Spec: • J-C-580B

Technical Data

Temperature rating:

TFFN: -20°C to +90°C
 THHN: -20°C to +105°C

Nominal voltage: 600V RMS max
 1,000V AWM style 1452

Impedance:

TFFN: 43.08 ohms/ 1M' nominal
 THHN: 41.08 ohms/ 1M'

DC resistance per conductor @ 20°C:

TFFN: 4.08 ohms/ 1M' nominal
 THHN: 2.52 ohms/ 1M' nominal

Color code:

- | | | |
|-------------|-------------|-----------------|
| 00 - Clear | 06 - Brown | 12 - Tan |
| 01 - Black | 07 - Blue | 13 - Light Blue |
| 02 - White | 08 - Orange | 14 - Beige |
| 03 - Red | 09 - Gray | 15 - Maroon |
| 04 - Green | 10 - Purple | 16 - Silver |
| 05 - Yellow | 11 - Pink | 17 - Natural |

18 AWG (16/30) 1.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
• TFFN-18G-XX	0.088	2.2	8	See color code
16 AWG (26/30) 1.50mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
• TFFN-16G-XX	0.100	2.5	11	See color code
14 AWG (19/27) 2.50mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
• THHN-14G-XX	0.112	2.8	16	See color code
12 AWG (19/25) 4.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
• THHN-12G-XX	0.130	3.3	24	See color code
10 AWG (105/30) 6.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
• THHN-10G-XX	0.164	4.2	38	See color code
8 AWG (168/30) 10.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
• THHN-8G-XX	0.220	5.6	64	See color code
6 AWG (266/30) 16.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
THHN-6G-XX	0.256	6.5	98	See color code
4 AWG (420/30) 25.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
THHN-4G-XX	0.325	8.2	155	See color code
2 AWG (665/30) 35.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
THHN-2G-XX	0.386	9.8	236	See color code
1/0 (1045/30) 50.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
THHN-1/0-XX	0.484	12.3	372	See color code
2/0 (1330/30) 70.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
THHN-2/0-XX	0.529	13.4	462	See color code
3/0 (1672/30) 95.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
THHN-3/0-XX	0.579	14.7	575	See color code
4/0 (2109/30) 120.00mm ²				
Part No.	Cable Ø		lbs/1,000ft	Color
	in	mm		
THHN-4/0-XX	0.635	16.1	716	See color code

• standard stock item

XX - wire color (refer to color code)