



# THHN 90°C / THWN 75°C, 600V BUILDING WIRE

Thermoplastic insulated, sheathed with Nylon.  
 Oil and Heat Resistant. Flame Retardant.  
 Solid sizes 1.60mm to 3.20mm; Stranded sizes 2.0mm<sup>2</sup> to 500mm<sup>2</sup>



## APPLICATION

PHILFLEX Type THHN/THWN building wire Lead Free / Tray Cable conductors are primarily used in conduit and cable tray or other recognized raceways for services, feeders, and branch circuits in residential, commercial or industrial applications as specified in the Philippine Electrical Code. May also be used in class 1 or 2, Division 2 hazardous locations according to PEC 1 Art. 5.0. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry location, 130°C for emergency overload condition. Voltage for all applications is 600 Volts.

## Conductors Insulation Jacket Color Flame Tests

Bare, soft annealed copper per ASTM B-3, Class B stranding per ASTM B 8. (PNS 1207)  
 Lead Free Flame Retardant PVC per UL Standard 83  
 Clear nylon per UL Standard 83 for THHN or THWN wire  
 Available in black, white, red, yellow, blue and green  
 UL 1685 70,000 BTU/hour flame test

Catalog Number	Size / Nom. Area of Conductor	Approx. Conductor Diameter	Approx. Over-all Diameter	Max. Conductor Resistance	Ampacity THWN / THHN	Approx. Cable Weight	Standard Length
				Ohm / km	A	Kg / km	
<b>SOLID</b>	mm	mm	mm				
TN14	1.6	1.6	2.60	8.906	30 / 35	22.4	150/box
TN12	2.0	2.0	3.00	5.656	35 / 40	33.3	150/box
TN10	2.6	2.6	3.80	3.324	50 / 55	55.6	150/box
TN08	3.2	3.2	5.06	2.198	65 / 75	88.3	150/box
<b>STRANDED</b>	mm <sup>2</sup>	mm	mm				
TN14X	2.0	1.8	2.80	9.18	30 / 35	23.6	150/box
TN12X	3.5	2.4	3.40	5.17	35 / 40	39.4	150/box
TN10X	5.5	3.0	4.20	3.31	50 / 55	66.2	150/box
TN08X	8.0	3.6	5.46	2.30	65 / 75	93.0	150/box
TN06X	14	4.8	6.66	1.29	100 / 110	155.9	150/box
TN04X	22	6.0	8.30	0.818	130 / 145	243.3	150/box
TN02X	30	6.9	9.20	0.618	150 / 165	314.7	150/box
TN01X	38	8.0	10.96	0.470	175 / 195	419.2	300/reel
TN1/0	50	9.0	11.96	0.376	210 / 235	520.7	300/reel
TN2/0	60	10.0	12.96	0.301	235 / 265	633.4	300/reel
TN3/0	80	11.5	14.46	0.228	290 / 325	823.3	300/reel
TN4/0	100	13.0	15.96	0.178	340 / 380	1038.3	300/reel
TN250	125	14.7	18.26	0.141	400 / 425	1323.2	300/reel
TN300	150	16.1	19.70	0.118	445 / 505	1573.8	300/reel
TN350	175	17.3	20.90	0.1011	495 / 560	1803.2	300/reel
TN400	200	18.2	21.80	0.0920	530 / 590	1988.3	300/reel
TN500	250	20.7	24.25	0.0709	620 / 685	2533.3	300/reel
TN600	300	22.7	26.74	0.0610	-	3045.6	300/reel
TN650	325	23.4	27.46	0.0560	720 / 800	3234.2	300/reel
TN750	375	25.4	29.44	0.0471	775 / 875	3782.1	300/reel
TN800	400	26.1	30.16	0.0450	795 / 890	3992.1	300/reel
TN1000	500	28.8	32.86	0.0370	905 / 1020	4830.1	300/reel

- Ampacities are based on single insulated conductors rated 0 - 2,000 Volts in free air, based on ambient temperature of 30°C per 3.10.2.6(B)(17) of PEC Part 1, 2017 Edition
- Lengths other than those specified are available upon request.



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 Serving the Local & Global Market  
 A True Super Brand!



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