

THHN/THWN&TFFN PVC Insulated/Nylon Jacketed 600 V

Application:

General purpose wiring in accordance with the National Electrical Code, THHN 105 °C for dry locations, building wire, THWN 75 °C for wet locations, building wire, MTW 90 °C for dry locations and 80 °C wet locations, machine tool wire, AWM 105 °C for dry locations, appliance wire material, TFFN 105 °C for dry locations, flexible cord and fixture wire.

Applicable Standards:

THHN/THWN-TFFN-MTW& AWM are designed and tested according to the requirements of UL83, UL 1581, UL 1063, UL 62

Specification:

Conductor

Solid or stranded annealed copper according to UL1581.

Insulation:

Solid extruded PVC insulation with rating 105 °C, heat, moisture and flame retardant compound.

Jacket:

Polyamide Nylon jacket is provided to protect PVC insulation against abrasions and scratches while pulling through conduits also it has well resistant against oil, gasoline and chemicals.

Colors:

Standard colors are available in black, white, red, blue, green, yellow, yellow/ green, pink, violet, orange, brown and gray.

Flame retardancy:

THHN/THWN-TFFN-MTW& AWM wires have been tested and approved with the flame performance standards according to UL 1581 (VW-1) Vertical Flame Test requirements.

Packing:

Available in standard length of 500, 300 and 250 feet on coil (Other lengths available on request)

Marking:

10AWGTHHN ORTHWN, OILANDGASOLINE RESISTANT, VW-1 600 V 105 °C



Technical Data:

Size	No. X Diam.	(ohm/km at 20C °c)	Insulation Thickness	Nylon Jacket Thickness	Nominal Outer Diameter	Approx. Net Weight	Current Carry Capacity at 30C ambient temperature THHN 105 C Dry		Current Carry Capacity at 30C ambient temperature THWN 75C Wet		Ordering Information
(AWG)	(No. x MM)	(ohm/km at 20C °c)	(MM)	(MM)	(MM)	(Kg/km)	Ampere (Air)	Ampere (Conduit)	Ampere (Air)	Ampere (Conduit)	Item Code
18*	19 x0.235	21	0.38	0.1	2.15	11.4	17	13	13	9	TFFN18ST-105C
16*	19 x0.296	13.7	0.38	0.1	2.49	16.9	21	16	16	11	TFFN16ST-105C
14	19 x0.37	8.62	0.38	0.1	2.89	23.8	36	26	31	21	THHN14ST-105C
12	19 x0.47	5.43	0.38	0.1	3.38	36.9	41	31	36	26	THHN12ST-105C
10	19 x0.59	3.409	0.51	0.1	4.18	58.8	56	41	51	36	THHN10ST-105C
8	19 x0.75	2.144	0.76	0.13	5.48	96.7	81	56	71	51	THHN08ST-105C
6	19 x0.944	1.348	0.76	0.13	6.37	194.8	106	76	96	66	THHN06ST-105C
14	1 x1.63	8.4	0.38	0.1	2.68	23.9	36	26	31	21	THHN14SO-105C
12	1 x2.05	5.3	0.51	0.1	3.08	35.9	41	31	36	26	THHN12SO-105C
10	1 x2.59	3.343	0.76	0.1	3.89	57.9	56	41	46	36	THHN10SO-105C

* Listed as TFFN