

THHN/THWN-2

**Product Description**

Solid or stranded
PVC insulation
Nylon jacket
90°C dry (THHN)
90°C wet (THWN-2, 8 AWG and larger)
75°C wet (THWN)
600 V

Applications

General purpose wiring for new construction or modernizing existing systems. Suitable for lighting and power in residential, commercial and industrial buildings. Also recommended for power control circuits, machine tools, appliances and relay panels. The overall nylon jacket is abrasion resistant with slippery surface, for easy pulling in conduits. Highly resistant to acids, alkalis, chemicals, oil, gasoline, grease and flame.

Specifications

- CONDUCTOR: Solid or stranded annealed copper per applicable ASTM standard
- INSULATION: Polyvinyl Chloride (PVC) sheathed with nylon meeting the requirements of the applicable UL standard
- STANDARDS: UL 83 Thermoplastic Wire and Cable, UL 1063 MTW, UL 758 AWM, Federal Specification A-A-59544. Sizes 1/0 and larger are marked "for CT use". Cable is sunlight-resistant in 1/0 and larger (black only)
- AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C per 2008 NEC Table 310.16
- TEMPERATURE: THHN 90°C dry, THWN-2 90°C wet/dry, THWN 75°C wet, MTW 90°C dry, 60°C wet/oil, AWM 105°C dry
- VOLTAGE: 600 V

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Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG copper. Diameters, weights and additional listings may vary among manufacturers.

Part No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Ampacity 90°C THHN	Ampacity 75°C THHN
6F-1401	14	Solid	0.015	0.004	0.110	16	25	20
6F-1201	12	Solid	0.015	0.004	0.130	24	30	25
6F-1001	10	Solid	0.020	0.004	0.160	38	40	35
6G-1401	14	19	0.015	0.004	0.120	16	25	20
6G-1201	12	19	0.015	0.004	0.140	25	30	25
6G-1001	10	19	0.020	0.004	0.170	39	40	35
6G-0801	8	19	0.030	0.005	0.230	66	55	50
6G-0601	6	19	0.030	0.005	0.250	98	75	65
6G-0401	4	19	0.040	0.006	0.330	115	95	85
6G-0301	3	19	0.040	0.006	0.360	190	110	100
6G-0201	2	19	0.040	0.006	0.390	235	130	115
6G-0101	1	19	0.050	0.007	0.450	300	150	130
6G-1011	1/0	19	0.050	0.007	0.500	370	170	150
6G-2021	2/0	19	0.050	0.007	0.540	460	195	175
6G-3031	3/0	19	0.050	0.007	0.600	570	225	200
6G-4041	4/0	19	0.050	0.007	0.660	710	260	230
6G-2501	250	37	0.060	0.008	0.720	845	290	255
6G-3001	300	37	0.060	0.008	0.770	1,020	320	285
6G-3501	350	37	0.060	0.008	0.830	1,165	350	310
6G-4001	400	37	0.060	0.008	0.870	1,325	380	335
6G-5001	500	37	0.060	0.008	0.960	1,640	430	380
6G-6001	600	61	0.070	0.009	1.060	2,005	475	420
6G-7501	750	61	0.070	0.009	1.170	2,480	535	475
6G-10001	1000	61	0.070	0.009	1.320	3,300	615	545

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