

THHN/THWN-2 High Speed (HS)

PVC, Low-Voltage Power

600 V, UL Type THHN/THWN-2, Single Conductor, Copper

Product Construction:

Conductor:

- 14 AWG thru 1000 kcmil bare annealed compressed stranded copper per ASTM B3 and ASTM B8
- 14 AWG thru 10 AWG solid plain copper per ASTM B3

Insulation:

- Color-coded premium-grade flame-retardant, heat- and moisture-resistant Polyvinyl Chloride (PVC)

Jacket:

- Tough Polyamide (Nylon)

Print:

For 14 AWG solid thru 10 AWG solid:

- GENERAL CABLE® MN (YEAR) HIGH SPEED THHN/THWN-2 (UL) E66903 (SIZE) AWG (SIZE MM²) GRI AND GRII 600 V VW-1 OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

For 14 AWG strand thru 10 AWG strand:

- GENERAL CABLE® MN (YEAR) HIGH SPEED MTW OR THHN/THWN-2 (UL) (SIZE) AWG (SIZE MM²) GRI AND GRII 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

For 8 AWG thru 1 AWG, black only:

- GENERAL CABLE® MI (MM)/(YYYY) HIGH SPEED MTW OR THHN/THWN-2 (UL) (SIZE) AWG (SIZE MM²) GRI AND GRII SUN RES 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

For 8 AWG thru 1 AWG, all colors:

- GENERAL CABLE® MI (MM)/(YYYY) HIGH SPEED MTW OR THHN/THWN-2 (UL) (SIZE) AWG (SIZE MM²) GRI AND GRII 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)



Print (cont'd.):

For 1/0 and larger, black only:

- GENERAL CABLE® MI (MM)/(YYYY) HIGH SPEED MTW OR THHN/THWN-2 (UL) (SIZE) AWG (SIZE MM²) GRI AND GRII SUN RES FOR CT USE 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

For 1/0 and larger, all colors:

- GENERAL CABLE® MI (MM)/(YYYY) HIGH SPEED MTW OR THHN/THWN-2 (UL) (SIZE) AWG (SIZE MM²) GRI AND GRII FOR CT USE 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

Applications:

- General purpose building wire for services, feeders and branch circuits
- Conduit and raceways
- 1/0 and larger for cable tray use

Features:

- 1/0 AWG and larger are rated for cable tray use
- Rated Gasoline and Oil Resistant II
- Resistant to abrasion, acids, alkalines, ozone and water
- For THHN/THWN-2 applications, the conductor is appropriate for wet or dry locations not to exceed 90°C
- For MTW applications, the conductor is appropriate for use in dry locations at 90°C or not to exceed 60°C in wet locations or where exposed to oil or coolants (with ampacity limited to that for 75°C conductor temperature) as outlined in NFPA 79 Electrical Standards for Industrial Machinery

Features (cont'd.):

- Sequential foot markings every 2 feet on 8 AWG and larger for easy measuring
- Sunlight-resistant for 8 AWG and larger, black only
- Meets cold bend and cold impact tests at -25°C
- High Speed (HS) cable features a specially designed system that allows for fast and easy cable pulls

Compliances:

Industry Compliances:

- ASTM B3 and B8
- UL Standard 83 – THHN/THWN-2
- UL Standard 1063 for machine tool wire (MTW)
- ICEA S-95-658/NEMA WC70
- NEC® Article 310
- c(UL) – T90 Nylon

Flame Test Compliances:

- UL 2556 VW-1 rated through 1 AWG
- UL 2556 CT USE 1/0 and larger
- CSA C22.2 No. 0.3-92 FT1 Vertical Flame Test

Other Compliances:

- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels



Phone: 855-720-2792
www.generalcable.com



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CATALOG NUMBER	CONDUCTOR SIZE		NUMBER OF WIRES	MIN. AVG. INSULATION THICKNESS		JACKET THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT		AMPACITY (1) 30°C AMBIENT		PACKAGING PUT-UP CODE
	AWG/kcmil	mm ²		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	@75°C	@90°C	

TYPE THHN/THWN-2 90°C WET OR DRY LOCATIONS

23014	14	2.08	1	0.015	0.38	0.004	0.10	0.102	2.59	16	24	19	28	20	25	20, 34
24014	14	2.08	19	0.015	0.38	0.004	0.10	0.109	2.77	13	19	16	24	20	25	20, 34
23012	12	3.31	1	0.015	0.38	0.004	0.10	0.119	3.02	25	37	28	42	25	30	20, 34
24012	12	3.31	19	0.015	0.38	0.004	0.10	0.130	3.30	20	30	24	36	25	30	20, 34
23010	10	5.26	1	0.020	0.51	0.004	0.10	0.150	3.81	40	60	45	67	35	40	10, 34
24010	10	5.26	19	0.020	0.51	0.004	0.10	0.161	4.09	32	48	38	57	35	40	10, 34
25008	8	8.37	19	0.030	0.76	0.005	0.13	0.212	5.38	51	76	62	92	50	55	32, 33, XX, 00
25006	6	13.3	19	0.030	0.76	0.005	0.13	0.248	6.30	81	121	94	140	65	75	32, 33, XX, 00
25004	4	21.2	19	0.040	1.02	0.006	0.15	0.317	8.05	129	192	151	225	85	95	32, 55, XX, 00
25002	2	33.6	19	0.040	1.02	0.006	0.15	0.375	9.53	205	305	232	345	115	130	55, XX, 00
25001	1	42.4	19	0.050	1.27	0.007	0.18	0.427	10.85	258	384	296	440	130	145	55, XX, 00
26110	1/0	53.5	19	0.050	1.27	0.007	0.18	0.466	11.84	326	485	368	548	150	170	55, XX, 00
26210	2/0	67.4	19	0.050	1.27	0.007	0.18	0.509	12.93	411	612	457	680	175	195	55, XX, 00
26310	3/0	85	19	0.050	1.27	0.007	0.18	0.557	14.15	518	771	570	848	200	225	55, XX, 00
26410	4/0	107	19	0.050	1.27	0.007	0.18	0.612	15.54	653	972	711	1058	230	260	55, XX, 00
27250	250	127	37	0.060	1.52	0.008	0.20	0.694	17.63	772	1149	850	1265	255	290	55, XX, 00
27300	300	152	37	0.060	1.52	0.008	0.20	0.747	18.97	926	1378	1011	1505	285	320	34, XX, 00
27350	350	177	37	0.060	1.52	0.008	0.20	0.797	20.24	1081	1609	1173	1746	310	350	34, XX, 00
27400	400	203	37	0.060	1.52	0.008	0.20	0.842	21.39	1235	1838	1334	1985	335	380	34, XX, 00
27500	500	253	37	0.060	1.52	0.008	0.20	0.925	23.50	1544	2298	1656	2464	380	430	34, XX, 00
27600	600	304	61	0.070	1.78	0.009	0.23	1.024	26.01	1853	2758	1996	2970	420	475	54, XX, 00
27750	750	380	61	0.070	1.78	0.009	0.23	1.126	28.60	2316	3447	2478	3688	475	535	54, XX, 00
27100	1000	507	61	0.070	1.78	0.009	0.23	1.275	32.39	3088	4595	3283	4886	545	615	54, XX, 00

Dimensions and weights are nominal; subject to industry tolerances.
(1) Allowable ampacities shown are for general use as specified by the National Electric Code.
Adjustments and corrections may apply.

COLOR CODE CHART

COLOR CODE	COLOR	COLOR CODE	COLOR
1	Black	7	Blue
2	White	8	Orange
3	Red	9	Gray
4	Green	A	Purple
5	Yellow	B	Pink
6	Brown		

PACKAGING CODE CHART

PACKAGING CODE	PACKAGING
10	2 x 500'
20	4 x 500'
32	500' Reel
33	1000' Reel
54	2000' Reel
34	2500' Reel
55	5000' Reel
0	Cut to Order
XX	Master Reel

