



Specification Sheet

BWC Part Number #: BWC-400-01AL-THHN

Aluminum THHN/THWN-2/T90 600V

Application

THHN / THWN-2 / T90 building wire is intended for general-purpose applications and is permitted for new construction and the rewiring of 600-volt applications. The conductors may be used in wet or dry locations at temperatures not exceeding 90°C. This cable should be installed without the application of pulling lubricant.

Construction

- **Conductor:** Compact bare AA-8000 series aluminum, with Class B stranding per ASTM.
- **Insulation:** Low coefficient of friction ("slick"), abrasion, heat, and moisture-resistant Polyvinyl Chloride (PVC).
- **Jacket:** A clear, abrasion, heat, and moisture-resistant nylon jacket with a low coefficient of friction. Standard stock colors include black, red, blue, white, brown, orange, yellow, gray, purple, and green.

Standards

- UL 83, UL 1685, CUL
- CSA C22.2 No. 75
- NEC & CEC
- NEMA WC-70/ICEA S-95-658
- ASTM B800, B801, B836
- Federal Specification AA-59544
- VW-1/FT1 Flame Test
- Sunlight resistant and Gas and Oil Resistant II
- Sizes 1/0 AWG & larger are rated for CT use

GET WIRED

1343 Exchange Dr. Richardson, TX 75081 | 972-231-5600 | www.bestwirecable.com

Information on this specification is subject to change without notice. REV 03062023





Specification Sheet

Part Number	Cond.Size (AWG/ MCM)	COND. DIAMETER (INCHES)	INSULAATION THICKNESS (INCHES)	JACKET THICKNESS (INCHES)	OVERALL DIAMETER (INCHES)	NET WEIGHT (LBS/KFT)	AMPACITY ** AT 60C	AMPACITY ** AT 75C	AMPACITY ** AT 90C
BWC-08-01AL-THHN	8	.134	.030	.005	.204	27	35	40	45
BWC-06-01AL-THHN	6	.169	.030	.005	.239	38	40	50	55
BWC-04-01AL-THHN	4	.213	.040	.006	.305	62	55	65	75
BWC-02-01AL-THHN	2	.268	.040	.006	.360	91	75	90	100
BWC-01-01AL-THHN	1	.299	.050	.007	.413	117	85	100	115
BWC-1/0-01AL-THHN	1/0	.335	.050	.007	.450	141	100	120	135
BWC-2/0-01AL-THHN	2/0	.378	.050	.007	.490	172	115	135	150
BWC-3/0-01AL-THHN	3/0	.423	.050	.007	.537	210	130	155	175
BWC-4/0-01AL-THHN	4/0	.476	.050	.007	.589	257	150	180	205
BWC-250-01AL-THHN	250	.520	.060	.008	.656	311	170	205	230
BWC-300-01AL-THHN	300	.571	.060	.008	.706	365	190	230	260
BWC-350-01AL-THHN	350	.614	.060	.008	.752	418	210	250	280
BWC-400-01AL-THHN	400	.657	.060	.008	.795	471	225	270	305

GET WIRED

1343 Exchange Dr. Richardson, TX 75081 | 972-231-5600 | www.bestwirecable.com

Information on this specification is subject to change without notice. REV 03062023



SCAN ME



Specification Sheet

Part Number	Cond.Size (AWG/ MCM)	COND. DIAMETER (INCHES)	INSULAATION THICKNESS (INCHES)	JACKET THICKNESS (INCHES)	OVERALL DIAMETER (INCHES)	NET WEIGHT (LBS/KFT)	AMPACITY ** AT 60C	AMPACITY ** AT 75C	AMPACITY ** AT 90C
BWC-500-01AL-THHN	500	.736	.060	.008	.872	576	260	310	350
BWC-600-01AL-THHN	600	.816	.070	.009	.971	700	285	340	385
BWC-700-01AL-THHN	700	.877	.070	.009	1.035	804	315	375	425
BWC-750-01AL-THHN	750	.909	.070	.009	1.066	856	320	385	435
BWC-900-01AL-THHN	900	.999	.070	.009	1.139	1013	355	425	480
BWC-1000-01AL-THHN	1000	1.059	.070	.009	1.128	1117	375	445	500

Table data sourced from. All values are nominal and subject to correction.

**Ampacities are based on NEC 2017, Section 310.15 and 240.4(D). Per NEC 110.14(C), ampacities are limited based on equipment termination ratings:

- **60°C** for circuits rated 100A or less (14-1 AWG conductors).
- **75°C** for circuits rated over 100A or for conductors larger than 1 AWG.
- **90°C** for ampacity adjustment purposes only.

ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.

GET WIRED

1343 Exchange Dr. Richardson, TX 75081 | 972-231-5600 | www.bestwirecable.com

Information on this specification is subject to change without notice. REV 03062023



SCAN ME