

# TYPE THHN/THWN-2/T90/AWM - ALUMINUM CONDUCTOR - SUPERSLICK ELITE - 600V

## ENGINEERING SPECIFICATIONS

### Standards

Underwriters Laboratories® Standard UL-83, UL-758, UL-1063, UL-1581, UL-2556; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; Federal Specification AA-59544; Canadian Standards Association C22.2 No. 75; NEMA WC70/IECA S-95-658; RoHS Compliant; American National Standards Institute; NFPA 79 AWM 600V 105°C (75° in oil); New York State DOS-16120-87-1222-1048; IEEE 1202/FT4; IECA T-29-520 (210,000 Btu/hr), Flame Test; ARRA 2009 Section 1605 "Buy American" Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E - 156879



Listed E-156879



## CONSTRUCTION

### Conductors

Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, ASTM B801 and ASTM B836

### Insulation

Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame-retardant compound per UL-83

### Jacket

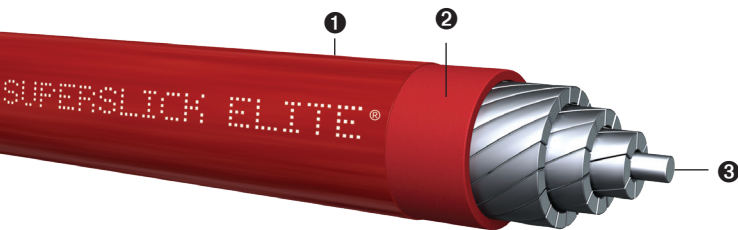
A tough, polyamide, nylon outer covering per UL-83

## APPLICATIONS

Type THHN/THWN-2 building wire is intended for general purpose applications as defined by the National Electrical Code (NEC). Type THHN/THWN-2 is permitted for new construction or rewiring for 600-volt applications. Type THHN/THWN-2 is appropriate for use in wet or dry locations at temperatures not to exceed 90°C or not to exceed 75°C in oil or coolants. PVC insulation is sunlight-resistant in all colors (6 AWG and larger). Cables comply with UL's VW-1 (vertical wire) Flame Test.

## FEATURES

A great alternative to eliminate the need for pulling or lube. Slick, nylon outer jacket for easy pulling. Superslick Elite is available on all sizes. All sizes are rated gasoline and oil-resistant II. 1/0 AWG and larger sizes are rated for cable tray use and comply with IEEE 1202/FT4 Flame Test and IECA T-29-520 (210,000 Btu/hr) Flame Test.



- ① SuperSlick Elite Nylon Jacket
- ② PVC Insulation
- ③ Compact Stranded Conductor, AA-8000 Series

Conductors		Compact Diameter of Aluminum Conductor (in)	PVC Insulation Thickness (in)	Nylon Jacket Thickness (in)	Approximate Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Allowable Ampacity (Amps) <sup>1</sup>		Standard Packaging (ft)
Size (AWG or KCMIL)	No. of Strands						75°C	90°C	
8	7	0.134	0.030	0.005	0.204	26	40	45	500' 1000' 2500' 5000' Reels
6	7	0.169	0.030	0.005	0.239	37	50	55	500' 1000' 2500' 5000' Reels
4	7	0.213	0.040	0.006	0.305	60	65	75	500' 1000' 2500' 5000' Reels
3	7	0.238	0.040	0.006	0.330	73	75	85	500' 1000' 2500' 5000' Reels
2	7	0.268	0.040	0.006	0.360	88	90	100	500' 1000' 2500' 5000' Reels
1	8	0.299	0.050	0.007	0.413	115	100	115	500' 1000' 2500' 5000' Reels
1/0	10	0.336	0.050	0.007	0.450	139	120	135	500' 1000' 2500' 5000' Reels
2/0	12	0.376	0.050	0.007	0.490	169	135	150	500' 1000' 2500' 5000' Reels
3/0	15	0.423	0.050	0.007	0.537	206	155	175	500' 1000' 2500' 5000' Reels
4/0	19	0.475	0.050	0.007	0.589	253	180	205	500' 1000' 2500' 5000' Reels
250	22	0.520	0.060	0.008	0.656	306	205	230	500' 1000' 2500' 4000' Reels
300	21	0.570	0.060	0.008	0.706	359	230	260	500' 1000' 3500' 7000' Reels
350	24	0.616	0.060	0.008	0.752	411	250	280	500' 1000' 3000' 6000' Reels
400	27	0.659	0.060	0.008	0.795	463	270	305	500' 1000' 3000' 5000' Reels
500	34	0.736	0.060	0.008	0.872	568	310	350	500' 1000' 2500' 4000' Reels
600	41	0.813	0.070	0.009	0.971	690	340	385	500' 1000' 2000' 3000' Reels
700	45	0.877	0.070	0.009	1.035	794	375	425	500' 1000' 1500' 2500' Reels
750	47	0.908	0.070	0.009	1.066	844	385	435	500' 1000' 1500' 2500' Reels
900	58	0.999	0.070	0.009	1.157	999	425	480	500' 1000' 1500' 2000' Reels
1000	61	1.060	0.070	0.009	1.220	1,100	445	500	500' 1000' 1500' 2000' Reels

<sup>1</sup> Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable. The above data is approximate and subject to manufacturing tolerances.

### PRINT LEGEND:

8 AWG: ENCORE\*WIRE\*CORP\*(SIZE)\*AA-8000\*AL\*CDR\*TYPE\*THHN\*OR\*THWN-2\*GR2\* VW-1\*600V\*(UL)\*DATE\*TIME\*OPERATOR\*QC SUPERSLICK ELITE

6 AWG - 1 AWG: ENCORE\*WIRE\*CORP\*(SIZE)\*AA-8000\*AL\*CDR\*TYPE\*THHN\*OR\*THWN-2\*GR2\*SUN-RES\*VW-1\*600V\*(UL)\*DATE\*TIME\*OPERATOR\*QC SUPERSLICK ELITE

1/0 AWG THROUGH 1000 KCMIL: ENCORE\*WIRE\*CORP\*(SIZE)\*AA-8000\*AL\*CDR\*TYPE\*THHN\*OR\*THWN-2\*GR2\*SUN-RES\*VW-1\*FT4\*IEEE1202\*600V\*FOR\*CT\*USE\*(UL)\*DATE\*TIME\*OPERATOR\*QC SUPERSLICK ELITE