

# TYPE XHHW-2/RW90 - ALUMINUM CONDUCTOR - SUPERSLICK ELITE® - 600V/1000V

Patents: [encorewire.com/patents](http://encorewire.com/patents)

## ENGINEERING SPECIFICATIONS

### Standards

Underwriters Laboratories® Standard UL-44, UL-1581, UL-1685, 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. 38; NEMA WC70/ICEA S-95-658; NFPA 70 (NEC®); Canadian C-UL RW90; Society for Testing & Materials Class B; American National Standards Institute; UL-1685-Method 1 Flame Test; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; VW-1 or IEEE 1202 (FT4) optional. UL Listing #E-177544



## CONSTRUCTION

### Conductors

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

### Insulation

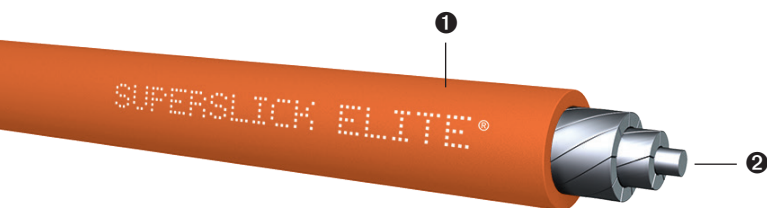
Cross-linked polyethylene (XLPE) per UL-44. Sunlight-resistant in all colors 8 AWG and larger

## APPLICATIONS

Type XHHW-2 building wire is intended for general purpose applications utilized in conduit or other recognized raceways for services, feeders, and branch-circuit wiring as specified in the National Electrical Code (NEC). Type XHHW-2 is permitted to be used in wet or dry locations at temperatures not to exceed 90°C. Type XHHW-2 is permitted for 600-volt and 1000-volt applications. Suitable for applications requiring low-leaking circuits and a dielectric constant of 3.5 or less. Type SIS wire is suitable for use as switchgear and switchboard wire with flame-retardant thermoset insulation for use at temperatures up to 90 degrees Celsius.

## FEATURES

A great alternative to eliminate the need for pulling or lube. SuperSlick Elite® is available on all sizes. All sizes (8 AWG and larger) are also rated sunlight-resistant. Cables comply with UL's FT-2 Flame Test. 1/0 AWG and larger are rated for use in cable tray in accordance with the NEC. 1/0 AWG and larger comply with UL-1685-Method 1 Flame Test.



- 1 SuperSlick Elite® XLPE Insulation
- 2 Compact Stranded Conductor, AA-8000 Series

Conductors		Compact Diameter of Aluminum Conductor (in)	XLPE Insulation Thickness (in)	Approximate Overall Dimensions (in)	Approximate Net Weight (lbs/1000 ft)	Allowable Ampacity (Amps) <sup>1,2</sup>		Standard Packaging (ft)
Size (AWG or KCMIL)	No. of Strands					75°C	90°C	
8	7	0.134	0.045	0.224	27	40	45	500' 1000' 2500' 5000' Reels
6	7	0.169	0.045	0.259	38	50	55	500' 1000' 2500' 5000' Reels
4	7	0.213	0.045	0.303	56	65	75	500' 1000' 2500' 5000' Reels
3	7	0.238	0.045	0.328	67	75	85	500' 1000' 2500' 5000' Reels
2	7	0.268	0.045	0.358	82	90	100	500' 1000' 2500' 5000' Reels
1	8	0.299	0.055	0.409	106	100	115	500' 1000' 2500' 5000' Reels
1/0	10	0.336	0.055	0.446	129	120	135	500' 1000' 2500' 5000' Reels
2/0	12	0.376	0.055	0.486	158	135	150	500' 1000' 2500' 5000' Reels
3/0	15	0.423	0.055	0.533	195	155	175	500' 1000' 2500' 5000' Reels
4/0	19	0.475	0.055	0.585	240	180	205	500' 1000' 2500' 5000' Reels
250	22	0.520	0.065	0.650	288	205	230	500' 1000' 2500' 4000' Reels
300	21	0.570	0.065	0.700	338	230	260	500' 1000' 3500' Reels
350	24	0.616	0.065	0.746	390	250	280	500' 1000' 3000' Reels
400	27	0.659	0.065	0.789	441	270	305	500' 1000' 3000' Reels
500	34	0.736	0.065	0.866	543	310	350	500' 1000' 2500' Reels
600	41	0.813	0.080	0.973	664	340	385	500' 1000' 2000' Reels
700	45	0.877	0.080	1.037	765	375	425	500' 1000' 1500' Reels
750	47	0.908	0.080	1.068	815	385	435	500' 1000' 1500' Reels
900	58	0.999	0.080	1.159	966	425	480	500' 1000' Reels
1000	61	1.060	0.080	1.220	1067	445	500	500' 1000' 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.

<sup>2</sup> Operating temperature of 90°C, Emergency overload of 130°C, and the Short-circuit temperature of 250°C.

### PRINT LEGEND:

8 AWG THROUGH 1 AWG: ENCORE WIRE CORP (Size) AA-8000 AL CDR TYPE XHHW-2 600V/1000V GR2 SUN-RES -40C FT2 XLPE (UL) OR C(UL) RW90 600V DATE TIME OPERATOR QC P#M# SUPERSLICK ELITE ©  
 1/0 AWG THROUGH 1000 KCMIL: ENCORE WIRE CORP (Size) AA-8000 AL CDR TYPE XHHW-2 600V/1000V GR2 SUN-RES -40C FT2 XLPE FOR CT USE (UL) OR C(UL) RW90 600V DATE TIME OPERATOR QC P#M# SUPERSLICK ELITE ©

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