

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

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standard UL-44, UL-1581, UL-1685, UL-2556; ASTM Stranding Class B3, B8, B787; Federal Specification A-A-59544; NEMA WC-70/CEA S-95-658; Canadian Standards Association C22.2 No. 38; Canadian C-UL RW90; NFPA 70 (NEC®) Article 310; UL-1685 Method 1 (70,000 Btu/hr) Flame Test (1/0 AWG and larger); ARRA 2009 Section 1605 "BABA" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; VW-1 or IEEE 1202 (FT4) optional. UL Listing #E-177544

CONSTRUCTION

Conductors

Stranded, uncoated bare copper conductors per ASTM-B3, ASTM-B8 and ASTM-B787

Insulation

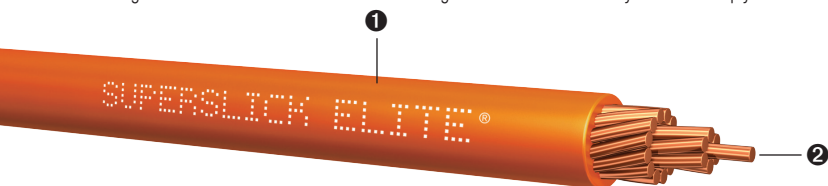
Cross-linked polyethylene (XLPE) insulation per UL-44.

APPLICATIONS

Type XHHW-2/RW90 building wire is intended for general purpose applications utilized in conduit and tubing underground in conduit, or other recognized raceways for services, feeders, and branch-circuit wiring as specified in the National Electrical Code (NEC). Type XHHW-2/RW90 is permitted for 600-volt and 1000-volt applications and can be used in wet or dry locations at temperatures not to exceed 90°C. 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 lube. Slick outer surface for easy pulling. SuperSlick Elite® XHHW-2/RW90 is available in sizes 14 AWG through 1000 KCMIL. On 250 KCMIL and larger, sequential foot markings located every foot for easy measuring. For 1 AWG through 4/0 AWG, sequential foot markings on master reels only unless otherwise specified. 8 AWG and larger rated Sunlight Resistant in all colors. 1/0 AWG and larger are rated for cable tray use and comply with UL-1685-Method 1 (70,000 Btu/hr) flame test.



- 1 SuperSlick Elite® XLPE Insulation
- 2 Stranded Copper Conductor

Patents: encorewire.com/patents



Size (AWG or KCMIL)	No. of Strands	XLPE Insulation Thickness		Outside Diameter		Approximate Net Weight		Allowable Ampacity (Amps) ^{1,2}			Standard Packaging (ft)
		(mm)	(in)	(mm)	(in)	(kg/km)	(lbs/1000 ft)	60°C	75°C	90°C	
14	19	0.76	0.030	3.33	0.131	25	17	15	20	25	2000' carton (4 x 500'), 2500' Reels
12	19	0.76	0.030	3.81	0.150	37	25	20	25	30	1000' carton (2 x 500'), 2500' Reels
10	19	0.76	0.030	4.39	0.173	57	38	30	35	40	500' spools, 2500' Reels
8	7	1.14	0.045	5.99	0.236	94	63	40	50	55	500' 1000' 2500' 5000' Reels
6	7	1.14	0.045	6.96	0.274	150	101	55	65	75	500' 1000' 2500' 5000' Reels
4	7	1.14	0.045	8.18	0.322	228	153	70	85	95	500' 1000' 2500' 5000' Reels
3	7	1.14	0.045	8.89	0.350	280	188	85	100	115	500' 1000' 2500' 5000' Reels
2	7	1.14	0.045	9.70	0.382	348	234	95	115	130	500' 1000' 2500' 5000' Reels
1	19	1.40	0.055	10.95	0.431	451	303	110	130	145	500' 1000' 2500' 5000' Reels
1/0	19	1.40	0.055	11.94	0.470	557	374	125	150	170	500' 1000' 2500' 5000' Reels
2/0	19	1.40	0.055	13.06	0.514	690	464	145	175	195	500' 1000' 2500' 5000' Reels
3/0	19	1.40	0.055	14.33	0.564	859	577	165	200	225	500' 1000' 2500' 5000' Reels
4/0	19	1.40	0.055	15.75	0.620	1068	718	195	230	260	500' 1000' 2500' 5000' Reels
250	37	1.65	0.065	17.07	0.672	1229	826	215	255	290	500' 1000' 2500' 4000' Reels
300	37	1.65	0.065	18.39	0.724	1466	985	240	285	320	500' 1000' 3500' Reels
350	37	1.65	0.065	19.58	0.771	1702	1144	260	310	350	500' 1000' 3000' Reels
400	37	1.65	0.065	20.70	0.815	1937	1302	280	335	380	500' 1000' 3000' Reels
500	37	1.65	0.065	22.76	0.896	2408	1618	320	380	430	500' 1000' 2500' Reels
600	61	2.03	0.080	26.75	1.053	2929	1969	350	420	475	500' 1000' 2000' Reels
750	61	2.03	0.080	29.41	1.158	3588	2411	400	475	535	500' 1000' 1500' Reels
1000	61	2.03	0.080	33.32	1.312	4757	3197	455	545	615	500' 1000' Reels

¹ Ampacity of conductors are based on NFPA 70 (NEC) 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 normal manufacturing tolerances.

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

PRINT LEGEND:

14 AWG THROUGH 10 AWG: ENCORE WIRE CORP (SIZE) (UL) TYPE XHHW2 600V/1000V GR2 FT2 XLPE OR SIS 600V OR C(UL) RW90 600V DATE TIME OPERATOR QC SUPERSLICK ELITE ®

8 AWG THROUGH 1 AWG: ENCORE WIRE CORP (SIZE) (UL) TYPE XHHW-2 600V/1000V GR2 SUN-RES FT2 XLPE OR SIS 600V OR C(UL) RW90 600V DATE TIME OPERATOR QC SUPERSLICK ELITE ®

1/0 AWG THROUGH 1000 KCMIL: ENCORE WIRE CORP (SIZE) TYPE XHHW-2 600V/1000V GR2 SUN-RES FT2 XLPE FOR CT USE (UL) OR C(UL) RW90 600V DATE TIME OPERATOR QC SUPERSLICK ELITE ®

PACKAGING: Available on Encore Wire's Reel Payoff® and Reel Deal®.

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