

SIMpull® AL XHHW-2

600 Volt AlumaFlex® Aluminum Alloy (AA-8176) Conductor
Cross-linked Polyethylene (XLPE) Insulation
Moisture Resistant High Heat
Sunlight Resistant in Sizes 6 AWG and Larger
CT Rated in Sizes 1/0 AWG and Larger



APPLICATIONS

Southwire SIMpull® AL Type XHHW-2 conductors are primarily used in conduit or recognized raceways for service and feeder wiring as specified in the National Electrical Code. XHHW-2 conductors may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating for XHHW-2 conductors is 600 volts. Suitable for use in Health Care Facilities per section 517.160 of the NEC where a dielectric constant of 3.5 or less may be specified. This product is designed to be installed without the application of pulling lubricant.

SPECIFICATIONS

Southwire Aluminum Type XHHW-2 conductors comply with the following:

- ASTM- All Applicable Standards
- UL Standard 44
- NOM-ANCE 90° C
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70, 2014 Edition
- NEMA WC-70 (ICEA S-95-658) Construction Requirements
- RoHS/Reach Compliant
- CT Rated - Sizes 1/0 AWG and larger are rated for Cable Tray use

CONSTRUCTION

Southwire Type XHHW-2 aluminum conductors are AlumaFlex® AA-8000 series aluminum alloy, compact stranded. The insulation is an abrasion, moisture and heat resistant SIMpull® thermoset cross-linked polyethylene. Phase conductors are available in sizes 6 AWG-1000 kcmil in black, as well as sizes 1/0 AWG-750 kcmil in white, red, blue, brown, orange, yellow and gray. Grounds are available sizes 6 AWG-750 kcmil in green. Conductor sizes 6 AWG and larger are listed and marked sunlight resistant in all colors. Some colors are subject to economic order quantity.



Southwire
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greenSpec™
RoHS Compliant



AlumaFlex
WITH TRIPLE ALUMINUM ALLOY

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SIMPull® AL XHHW-2

Conductor		Insulation Thickness	Nominal O.D. (mils)	Approx. Weight per 1000' (lbs)	Allowable Ampacities			Standard Package
Size (AWG or kcmil)	Number of Strands				60° C	75° C	90° C	
8	7	45	227	30	35	40	45	BCD
6	7	45	259	39	40	50	55	BCD
4	7	45	303	57	55	65	75	BCD
2	7	45	358	85	75	90	100	BCD
1	18	55	409	108	85	100	115	BC
1/0	10	55	446	131	100	120	135	BCD
2/0	18	55	486	161	115	135	150	ABCD
3/0	18	55	533	198	130	155	175	BCD
4/0	18	55	585	243	150	180	205	ABCD
250	22	65	650	293	170	205	230	BCD
300	35	65	700	346	195	230	260	BC
350	35	65	746	398	210	250	280	BCD
400	35	65	789	449	225	270	305	CD
500	35	65	866	552	260	310	350	ABCDE
600	58	80	973	675	285	340	385	ABD
700	58	80	1037	777	315	375	425	
750	58	80	1068	829	320	385	435	ABCE
900	58	80	1162	979	355	425	480	
1000	58	80	1220	1085	375	445	500	

+ Allowable ampacities shown are for general use as specified by the National Electrical Code 2014 Edition Section 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures the conductor ampacities shall be limited to the following per NEC 110.14(C):
 60 °C - When terminated to equipment for circuits rated 100 amperes or less or marked for 14 through 1 AWG conductors.
 75 °C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
 90 °C - XHHW wet or dry locations for ampacity adjustment purposes using NEC section 310.15 .
 For dwelling ampacity use section 310.15(B)(7)
 *For compact-stranded construction, the number of wires, as permitted by UL Standard 44 and ASTM B-801, may be reduced as follows:
 19-Wire Constructions -18 Wires Minimum
 37-Wire Constructions -35 Wires Minimum
 61-Wire Constructions -58 Wires Minimum

Package Code:
 A- 500'
 B- 2500'
 C- 1000'
 D- 5000'
 E- 3000'
 F- 2000'

RECOMMENDED SAMPLE SPECIFICATIONS:

Conductors shall be UL-listed Type XHHW-2, suitable for operation at 600 volts or less in wet or dry locations at temperatures not to exceed 90 °C. Conductors shall be annealed AlumaFlex® aluminum alloy as manufactured by Southwire Company or approved equal.



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