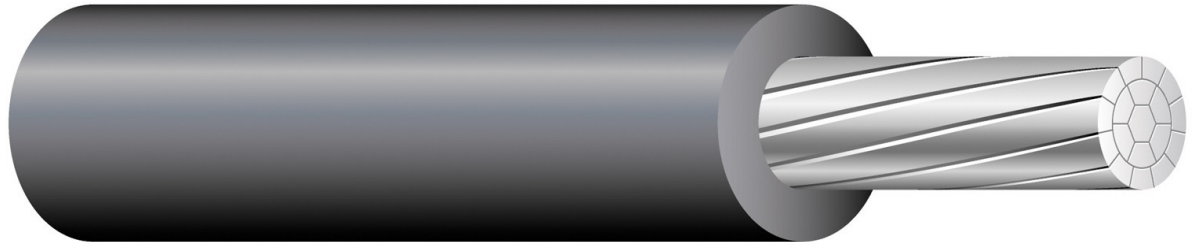


# AL XHHW

**600 Volt. AlumaFlex™ Aluminum Alloy (AA-8176) Conductor.  
Cross-linked Polyethylene (XLP) Insulation.  
High-Heat and Moisture Resistant.  
Black Sizes 2 AWG and Larger Sunlight Resistant.**



## APPLICATIONS

Southwire Type XHHW-2 conductors are primarily used in conduit or recognized raceways for services, feeders, and branch circuit wiring as specified in the 2008 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.

## SPECIFICATIONS

Southwire Type XHHW-2 conductors meet or exceed UL Standard 44, Federal Specification A-A-59544, and requirements of the National Electrical Code.

Type XHHW-2 meets and exceeds all construction requirements of ICEA S-95-658 (NEMA WC 70) - Nonshielded 0 - 2 kV Cables, with testing frequencies based on UL requirements.

## CONSTRUCTION

Southwire Type XHHW-2 aluminum conductors are AlumaFlex™ AA-8000 series aluminum alloy, compact stranded. Insulation is an abrasion, moisture and heat resistant black cross-linked polyethylene. Conductor sizes AWG 2 and larger listed and marked sunlight resistant in black only.



**Southwire**  
One Southwire Drive  
Carrollton, Ga. 30119 USA

greenSpec™  
RoHS Compliant



**AlumaFlex**  
WITH triple e ALUMINUM ALLOY

Copyright 2010, Southwire Company.  
All Rights Reserved.  
Southwire is a registered trademark  
of Southwire Company.

# XHHW Aluminum

Conductor		Insulation Thickness (mils)	Nominal O.D. (mils)	Allowable Ampacities+			Approx. Net Weight Per 1000 (lbs)	Standard Package
Size (AWG or kcmil)	No.* Strands			60 °C	75 °C	90 °C		
6	7	45	262	40	50	60	42	B
4	7	45	306	55	65	75	58	B
2	7	45	361	75	90	100	86	B
1	18	55	412	85	100	115	110	B
1/0	10	55	449	100	120	135	134	B
2/0	18	55	489	115	135	150	163	B
3/0	18	55	536	130	155	175	200	B
4/0	18	55	588	150	180	205	247	B
250	22	65	653	170	205	230	296	B
300	35	65	703	190	230	255	349	B
350	35	65	749	210	250	280	401	B
400	35	65	792	225	270	305	452	B
500	35	65	869	260	310	350	556	B
600	58	80	976	285	340	385	679	C
700	58	80	1040	310	375	420	782	C
750	58	80	1071	320	385	435	833	C
900	58	80	1162	355	425	480	987	C
1000	58	80	1223	375	445	500	1090	C

**+Allowable Ampacities:**

Allowable ampacities shown are for general use as specified by the National Electrical Code, 2008 Edition, section 310.15.

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 - Wet or dry locations. For ampacity derating purposes.

\*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

In dwelling units, conductors shall be permitted to be utilized as 120/240 volt, 3-wire service entrance conductors and feeder conductors in raceways or cable with or without an equipment grounding conductor. The allowable ampacity for types THWN-2, SE, USE-2, XHHW-2, RHW-2 and RHH aluminum conductors shall be:

Size # - Amps

2 - 100

1 - 110

1/0 - 125

2/0 - 150

3/0 - 175

4/0 - 200

250 kcmil - 225

300 kcmil - 250

350 kcmil - 300

500 kcmil - 350

600 kcmil - 400

**STANDARD PACKAGE CODE:**

B - 1000' Reel  
C - 500' Reel

**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.



Copyright 2010, Southwire Company. All Rights Reserved.  
®Southwire is a registered trademark of Southwire Company.