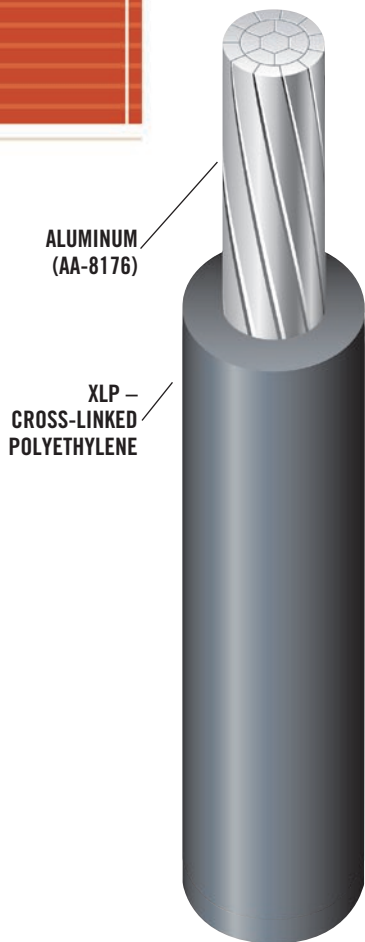


AL XHHW



ALUMINUM
(AA-8176)

XLP -
CROSS-LINKED
POLYETHYLENE

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 Suitable for use as follows:

- Southwire Type XHHW-2 conductors are primarily used in conduit or recognized raceways for services, feeders, and branch circuit wiring as specified in the National Electric Code (NEC)¹
- 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

STANDARDS & REFERENCES

Southwire Type XHHW-2 conductors meet or exceed UL Standard 44, Federal Specification A-A-59544, and requirements of the NEC¹. 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.

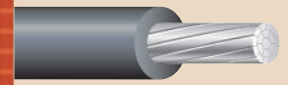
CONSTRUCTION

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.

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.

¹ 2005 Edition.



ALUMINUM CONDUCTORS

AL XHHW

WEIGHTS, MEASUREMENTS AND PACKAGING

CONDUCTOR SIZE (AWG or kcmil)	INSULATION THICKNESS (mils)	NOMINAL O.D. (mils)	ALLOWABLE AMPACITIES*			APPROX. NET WEIGHT PER 1000 FT. (lbs)	STANDARD PACKAGE
			60°C	75°C	90°C		
8	45	227	30	40	45	30	B
6	45	262	40	50	60	42	B
4	45	306	55	65	75	58	B
2	45	361	75	90	100	86	B
1	55	412	85	100	115	108	B
1/0	55	449	100	120	135	132	B
2/0	55	489	115	135	150	161	B
3/0	55	536	130	155	175	200	B
4/0	55	588	150	180	205	247	B
250	65	653	170	205	230	296	B
300	65	703	190	230	255	349	B
350	65	749	210	250	280	401	B
400	65	792	225	270	305	452	B
500	65	869	260	310	350	556	B
600	80	976	285	340	385	679	C
700	80	1040	310	375	420	782	C
750	80	1071	320	385	435	833	C
1000	80	1223	375	445	500	1090	C

*Allowable Ampacities:
 Allowable ampacities shown are for general use as specified by the NEC, 2005 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 - THWN-2 wet or dry locations. For ampacity derating purposes.
 Ampacities are based on conductor operating temperatures only and do not take voltage drop into consideration. When the number of current carrying conductors in a raceway or cable exceeds three, the allowable ampacity of each conductor shall be reduced to the following percentages of tabular values:

4 to 6	80%
7 to 9	70%
10 to 20	50%
21 to 30	45%
31 to 40	40%

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

All aluminum conductors are compact stranded construction complying with UL standard 44.