

# Aluminum RHH, RHW, USE



**Underground Service Entrance Cable. 600 Volt. AlumaFlex® Brand Aluminum Alloy (AA-8176) Conductor. Cross-linked Polyethylene (XLP) Insulation. High Heat, Moisture, and Sunlight Resistant. Also Rated THWN-2. Rated SIS in #8 – 4/0 AWG**

## APPLICATIONS

Southwire Type RHH or RHW-2 or USE-2 conductors are used with conduit as specified in the National Electrical Code. When used as Type USE-2, conductors are suitable for use as underground service entrance conductors for direct burial at conductor temperatures not to exceed 90°C. When used as RHW-2 or USE-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Voltage rating for RHW-2 or RHH or USE-2 conductors is 600 volts.

## STANDARDS & REFERENCES

Southwire Type RHH or RHW-2 or USE-2 conductors comply with the following:

- ASTM B-800 and B-801
- UL 44 for RHH or RHW-2
- UL 854 for USE-2
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70, 2011 Edition
- NEMA WC-70 Construction Requirements
- RoHS/Reach Compliant

## CONSTRUCTION

Southwire Type RHH or RHW-2 or USE-2 conductors are AlumaFlex® Brand AA-8000 series aluminum alloy, compact stranded. The insulation is an abrasion, moisture, heat and sunlight-resistant black cross-linked polyethylene (XLP). CT rated available upon request sizes 1/0 and larger.



Conductor		Insulation Thickness (mils)	Nominal O.D. (mils)	Net Wt. Per 1000' (lbs.)	Allowable Ampacities+			Standard Package
Size (AWG or kcmil)	No. of strands				60°C	75°C	90°C	
6	7	60	283	44	40	50	60	AC
4	7	60	333	64	55	65	75	BCD
2	6	60	388	93	75	90	100	ABCD
1	18	80	459	124	85	100	115	CD
1/0	18	80	496	149	100	120	135	CD
2/0	18	80	536	180	115	135	150	ABC
3/0	18	80	583	218	130	155	175	BC
4/0	18	80	635	266	150	180	205	ABCD
250	22	95	710	322	170	205	230	CD
300	35	95	760	377	190	230	255	C
350	35	95	806	431	210	250	280	C
400	35	95	849	484	225	270	305	C
500	35	95	926	590	260	310	350	BC
600	58	110	1033	718	285	340	385	N/A
700	58	110	1100	829	310	375	420	N/A
750	58	110	1128	876	320	385	435	C
900	58	110	1222	1039	355	425	480	N/A
1000	58	110	1280	1138	375	445	500	N/A
+ Allowable Ampacities shown are for general use as specified by the National Electrical Code 2011 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 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 - THHN dry locations and THWN wet or dry locations for ampacity adjustment purposes using NEC section 310.15.								Package Codes A-500' B-2,500' C-1,000' D-5,000'

**RECOMMENDED SAMPLE SPECIFICATIONS:**

Conductors shall be UL-listed Type RHH or RHW-2 or USE-2, suitable for operation at 600 volts or less in wet or dry locations, including direct burial in the earth. Conductors shall be Alumaflex® brand aluminum alloy, XLP insulated, as manufactured by Southwire Company or approved equal.

Conductor		
Size (AWG or kcmil)	No. of strands	Stock Numbers
6	7	<b>Stock #: BK:272799, GN:301572</b>
4	7	<b>Stock #: BK:272807, GN:334680</b>
2	6	<b>Stock #: BK:272823, WE:575240</b>
1	18	<b>Stock #: BK:272831</b>
1/0	18	<b>Stock #: BK:272849</b>
2/0	18	<b>Stock #: BK:272856</b>
3/0	18	<b>Stock #: BK:272864</b>
4/0	18	<b>Stock #: BK:272872</b>
250	22	<b>Stock #: BK:272880</b>
300	35	<b>Stock #: BK:272898</b>
350	35	<b>Stock #: BK:272906, GN:576086</b>
400	35	<b>Stock #: BK:272914</b>
500	35	<b>Stock #: BK:272922, BN:560674</b>
600	58	<b>Stock #: BK:272930</b>
700	58	<b>Stock #: BK:596530</b>
750	58	<b>Stock #: BK:272955</b>
900	58	<b>Stock #: N/A</b>
1000	58	<b>Stock #: N/A</b>

**Color Abbreviations**

BK-Black

BN-Brown

WE- White

GN-Green

