RHH/RHW-2 or USE-2 Aluminum Mobile Home Feeder (MHF)

Plexed Underground Service Entrance Cable. 600 Volt. Alumaflex® Brand Aluminum Alloy (AA-8176) Conductor. Cross-linked Polyethylene (XLP) Insulation. Sunlight Resistant.

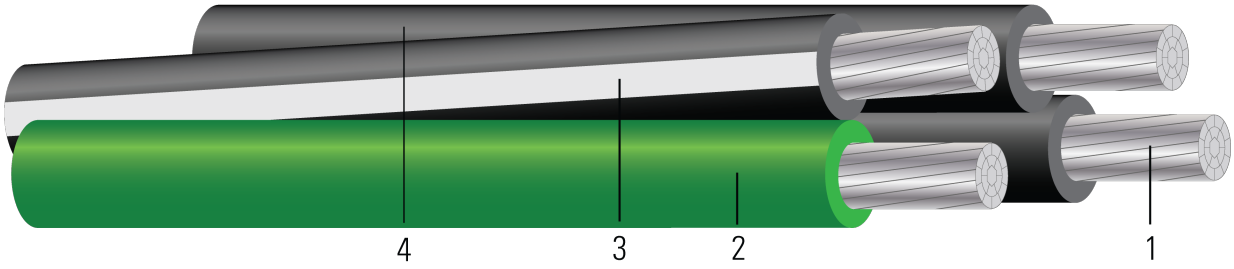


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded bare aluminum Alumaflex® per ASTM B800 and ASTM B801
2. **Ground:** Green insulated aluminum ground
3. **Neutral:** Black with White stripe
4. **Insulation:** All phases are plexed and insulated with Cross Linked Polyethylene (XLPE) Type RHH/RHW-2 or USE-2

APPLICATIONS AND FEATURES:

Southwire mobile home feeder is intended for the connection of mobile homes to a supply of electricity where permanent wiring is required as specified in the National Electrical Code. Suitable for direct burial in earth at conductor temperatures not to exceed 90°C. Voltage rating is 600 volts.

SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- UL 44 Thermoset-Insulated Wires and Cables
- UL 854 Service Entrance Cable
- RoHS-2 (European Directive 2011/65/EU)
- NEC National Electrical Code NFPA 70
- Federal Specification A-A-59544

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Num x Neutral Size	Jacket Thickness	Approx. OD	Overall Weight
	AWG/ Kcmil		inch		mils	No. x AWG	No. x AWG	mil	inch	lbs/1000ft
301630◊	2	2	0.268	6	60	1x6	1x4	80	0.951	305
287128◊	2	2	0.268	6	60	1x4	1x2	80	0.951	354
301622◊	2/0	2	0.376	12	80	1x4	1x1	80	1.313	562
287136◊	2/0	2	0.376	12	80	1x1	1x2/0	80	1.313	681
301614◊	4/0	2	0.475	19	80	1x4	1x2/0	80	1.552	796
287144◊	4/0	2	0.475	19	80	1x2/0	1x4/0	80	1.552	1002

All dimensions are nominal and subject to normal manufacturing tolerances

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◊ Cable marked with this symbol is a standard stock item
* Strand count meets minimum number per ASTM

Table 2 – Electrical and Engineering Data

Cond. Size	Conductor Number	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
2	2	3.8	796	0.266	0.331	0.045	90	100
2	2	3.8	796	0.266	0.331	0.045	90	100
2/0	2	6.6	1597	0.133	0.166	0.043	135	150
2/0	2	6.6	1597	0.133	0.166	0.043	135	150
4/0	2	7.8	2539	0.084	0.105	0.041	180	205
4/0	2	7.8	2539	0.084	0.105	0.041	180	205

***** Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

Award Winning Patent Pending Building Wire Selector

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