

# TYPE USE-2/RHH/RHW-2 - ALUMINUM CONDUCTOR - 600V/1000V

## ENGINEERING SPECIFICATIONS

### Standards

Underwriters Laboratories® Standards UL-44, UL-854, UL-1581, UL-1685, UL-2556; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; Federal Specification AA-59544; NEMA WC70/ICEA S-95-658; NEMA RV-4; NFPA 70 (NEC®); RoHS Compliant; American National Standards Institute; UL-1685 Method 1 Flame Test; ICEA S-81-570; ARRA 2009 Section 1605 "Buy American" Compliant; MasterSpec Division 26 Sections 260519, 260523; VW-1 or IEEE 1202 (FT4) optional. UL Listing #E-174428



## CONSTRUCTION

### Conductors

Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, ASTM B801 and ASTM B836

### Insulation

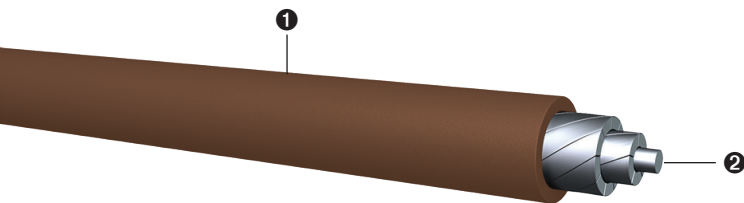
Cross-linked polyethylene (XLPE) per UL-44 and UL-854. Sunlight-resistant in all colors 8 AWG and larger

## APPLICATIONS

Type USE-2, RHH or RHW-2 cables with Aluminum Alloy 8000 Series conductors are suitable for use in conduit and raceways installed underground in wet locations, and where condensation and moisture accumulations within the conduit do not exceed 90°C. Permitted for Type USE-2 per UL-854 for applications requiring direct burial. For applications requiring Type RHH or RHW-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Type USE-2 is permitted for 600 volt applications. Type RHH/RHW-2 is permitted for applications up to 1000 volts.

## FEATURES

10 AWG and larger rated for Sunlight Resistance in all colors. Cables comply with UL's FT-2 (horizontal wire flame). On 250 KCMIL and larger, sequential foot markings located every foot for easy measuring. For 1 AWG through 4/0 AWG, sequential foot markings on master reels only unless otherwise specified. 1/0 AWG and larger are rated for cable tray use and comply with UL-1685-Method 1 (70,000 Btu/hr) flame test. Excellent ruggedized and mechanical protection.



- ① XLPE Insulation
- ② Compact Stranded Conductor, AA-8000 Series

Conductors		Compact Diameter of Aluminum Conductor (in)	XLPE Insulation Thickness (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Allowable Ampacities (Amps) <sup>1</sup>		Standard Packaging (ft)
Size (AWG or KCMIL)	No. of Strands					75°C	90°C	
8	7	0.134	0.060	0.254	32	40	45	500' 1000' 2500' 5000' Reels
6	7	0.169	0.060	0.289	44	50	55	500' 1000' 2500' 5000' Reels
4	7	0.213	0.060	0.333	62	65	75	500' 1000' 2500' 5000' Reels
3	7	0.238	0.060	0.358	78	75	85	500' 1000' 2500' 5000' Reels
2	7	0.268	0.060	0.388	90	90	100	500' 1000' 2500' 5000' Reels
1	8	0.299	0.080	0.459	120	100	115	500' 1000' 2500' 5000' Reels
1/0	10	0.336	0.080	0.496	150	120	135	500' 1000' 2500' 5000' Reels
2/0	12	0.376	0.080	0.536	176	135	150	500' 1000' 2500' 5000' Reels
3/0	15	0.423	0.080	0.583	216	155	175	500' 1000' 2500' 5000' Reels
4/0	19	0.475	0.080	0.635	262	180	205	500' 1000' 2500' 5000' Reels
250	22	0.520	0.095	0.710	320	205	230	500' 1000' 2500' 4000' Reels
300	21	0.570	0.095	0.760	375	230	260	500' 1000' 3500' Reels
350	24	0.616	0.095	0.806	450	250	280	500' 1000' 3000' Reels
400	27	0.659	0.095	0.849	484	270	305	500' 1000' 3000' Reels
500	34	0.736	0.095	0.926	583	310	350	500' 1000' 2500' Reels
600	41	0.813	0.110	1.033	710	340	385	500' 1000' 2000' Reels
700	45	0.877	0.110	1.097	810	375	425	500' 1000' 1500' Reels
750	47	0.908	0.110	1.128	865	385	435	500' 1000' 1500' Reels
900	58	0.999	0.110	1.219	1015	425	480	500' 1000' Reels
1000	61	1.060	0.110	1.280	1096	445	500	500' 1000' Reels

<sup>1</sup> Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

The above data is approximate and subject to manufacturing tolerances.

### PRINT LEGEND:

**8 AWG THROUGH 1 AWG:** ENCORE\*WIRE\*CORP\*(SIZE)\*AA-8000\*AL\*CDR\*TYPE\*USE-2\*600V\*OR\*TYPE\*RHH\*OR\*RHW\*OR\*RHW-2\*600V/1000V\*GR2\*SUN-RES\*DIR-BUR\*FT2\*XLPE\*(UL)\*DATE\*TIME\*OPERATOR\*QC\*MACHINE  
**1/0 AWG THROUGH 1000 KCMIL:** ENCORE\*WIRE\*CORP\*(SIZE)\*AA-8000\*AL\*CDR\*TYPE\*USE-2\*600V\*OR\*TYPE\*RHH\*OR\*RHW\*OR\*RHW-2\*600V/1000V\*GR2\*SUN-RES\*DIR-BUR\*XLPE\*FOR\*CT\*USE\*(UL)\*DATE\*TIME\*OPERATOR\*QC\*MACHINE