

USE-2 or RHW-2 or RHH

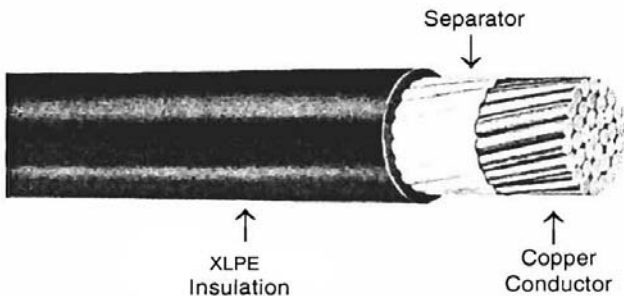
XLPE Insulation, 600 Volts

APPLICATION:
For lighting and power applications in accordance with the National Electrical Code and for other general purpose wiring applications. for use in circuits not exceeding 600 volts at conductor temperatures not exceeding 90°C in wet or dry locations. May be installed in raceway, direct burial and aerial installations.

STANDARDS:

- Listed by UL as Type USE-2 (90°C wet or dry) per Standard 854 for Service Entrance Cables.
- Listed by UL as Types RHW-2 (90°C wet or dry) or RHH (90°C dry) Standard 44.
- Conforms to ICEA S-95-658/NEMA WC70, utilizing Column A thicknesses.
- Conforms to Federal Specification J-C-30B.
- Sizes 12-4 AWG stranded copper approved under FAA Advisory 150/5345-7E per Spec L-824 Airport Lighting Cable, Type TC.

CONSTRUCTION: Annealed copper conductor, XLPE thermosetting chemically crosslinked polyethylene insulation, surface printed.



Separator

XLPE Insulation

Copper Conductor

USAWC Part #	Size AWG or kcmil	No. of Strands	Insulation Thickness Mils	Nom. Diam. Inches	Ampacity		Approx. Wt. lbs/1000 ft		
					90°C * USE-2 RHW-2 RHH	75°C** USE RHW	Copper	Net	
Solid									
14-01SOLXLPEUSE-2	14	Solid	45	.16	25	20	12	21	
12-01SOLXLPEUSE-2	12	Solid	45	.18	30	25	20	30	
10-01SOLXLPEUSE-2	10	Solid	45	.20	40	35	31	43	
8-01SOLXLPEUSE-2	8	Solid	60	.25	55	50	50	68	
Stranded									
14-01XLPEUSE2	14	7	45	.17	25	20	13	23	
12-01XLPEUSE2	12	7	45	.19	30	25	20	32	
10-01XLPEUSE2	10	7	45	.21	40	35	32	45	
8-01XLPEUSE2	8	7	60	.27	55	50	51	72	
6-01XLPEUSE2	6	7	60	.31	75	65	81	105	
4-01XLPEUSE2	4	7	60	.36	95	85	129	155	
2-01XLPEUSE2	2	7	60	.41	130	115	205	234	
1-01XLPEUSE2	1	19	80	.49	150	130	258	305	
1/0-01XLPEUSE2	1/0	19	80	.53	170	150	326	380	
2/0-01XLPEUSE2	2/0	19	80	.58	195	175	411	470	
3/0-01XLPEUSE2	3/0	19	80	.63	225	200	518	580	
4/0-01XLPEUSE2	4/0	19	80	.68	260	230	653	725	
250-01XLPEUSE2	250	37	95	.76	290	255	772	865	
300-01XLPEUSE2	300	37	95	.81	320	285	926	1025	
350-01XLPEUSE2	350	37	95	.86	350	310	1081	1190	
400-01XLPEUSE2	400	37	95	.91	380	335	1235	1345	
500-01XLPEUSE2	500	37	95	.99	430	380	1544	1665	
600-01XLPEUSE2	600	61	110	1.10	475	420	1853	2020	
750-01XLPEUSE2	750	61	110	1.20	535	475	2316	2500	
1000-01XLPEUSE2	1000	61	110	1.35	615	545	3088	3225	

*AMPACITY in accordance with NEC for not more than three conductors. As RHW-2: in raceway, 90C conductor temperature and 30 C ambient in wet or dry locations. AS RHH: in raceway, 90 C conductor temperature and 30 C ambient in dry locations. AS USE-2: direct burial, 90 C conductor temperature and 30 C ambient in wet locations

**Ampacity in accordance with NEC for not more than three conductors. As RHW-2: in raceway, 75C conductor temperature and 30 C ambient in wet or dry locations. As USE: direct burial, 75 C conductor temperature and 30 C ambient in wet locations

Specification

USE-2 or RHW-2 or RHH

XLPE Insulation, 600 Volts

1. SCOPE

- 1.1 This specification describes single conductor XLPE, Type USE-2 or RHW-2 or RHH, crosslinked polyethylene insulated cables for use in circuits not exceeding 600 volts. Cables are listed by UL as Type USE-2 and are recognized for underground use in wet locations at a maximum continuous conductor temperature of 90°C in accordance with Article 338 of the National Electrical Code. The cables are also listed by UL as Type RHH or RHW-2 for general purpose wiring applications at maximum continuous conductor temperature of 90°C in dry locations (RHH) or 90°C in wet or dry locations (RHW-2) and may be installed in air, conduit or other recognized raceways in accordance with Article 310 of the National Electrical Code.

2. APPLICABLE STANDARDS

- 2.1 The following standards form a part of this specification to the extent specified herein:
 - 2.1.1 Underwriters Laboratories Standard 854 for Service Entrance Cables.
 - 2.1.2 Underwriters Laboratories Standard 44 for Rubber-Insulated Wires and Cables.
 - 2.1.3 ICEA Pub. No. S-95-658, NEMA Pub. No. WC70 for Nonshielded Power Cables Rated 2000 Volts or Less.
 - 2.1.4 Federal Specification J-C-30B.

3. CONDUCTORS

- 3.1 Conductors shall be solid or Class B stranded annealed uncoated copper per UL Standard 854 and 44.

4. SEPARATOR

- 4.1 A suitable separator over the conductor may be used at the option of the manufacturer.

5. INSULATION

- 5.1 Each conductor shall be insulated with XLPE, a crosslinked polyethylene complying with the physical and electrical requirements of UL Standard 854 for Type USE-2 and UL Standard 44 for Types RHW-2 or RHH and Table 3-7, Class X-2 of ICEA.
- 5.2 The average thickness of insulation shall be as specified in UL Standard 44 for Types RHH and RHW-2 and Table 3-4, Column A of ICEA. The minimum thickness at any point shall be not less than 90% of the specified average thickness. The insulation shall be applied tightly to the conductor and shall be free-stripping.

6. IDENTIFICATION

- 6.1 The wire shall be identified by surface marking indicating manufacturer's identification, conductor size and metal, voltage rating, UL Symbol and type designations.

7. TESTS

- 7.1 Wire shall be tested in accordance with the requirements of UL Standard 854 for Type USE-2, UL Standard 44 for Types RHW-2 or RHH and ICEA S-95-658.

8. LABELS

- 8.1 The wire shall bear the Underwriters Laboratories label for Type USE-2.