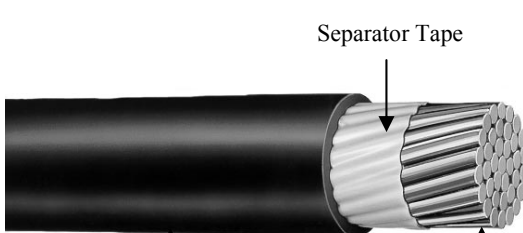


ROME LSNH XHHW, VW-1, LS

Rome LSNH FR-XLPE Insulation, 600 Volts

<p>APPLICATION:</p> <ol style="list-style-type: none"> General purpose wiring where a low smoke non halogenated (LSNH) flame retardant insulation is required; for lighting and power - residential, commercial, industrial buildings in accordance with National Electrical Code, maximum conductor temperature of 90°C in dry or 75°C in wet locations, 600 volts, for installation in raceway, duct, cable tray and aerial installations. <p>STANDARDS:</p> <ol style="list-style-type: none"> Listed by UL as Type XHHW per Standard 44. Listed by UL as LS, Limited Smoke. Listed by UL as Gasoline and Oil Resistant I. All sizes carry the VW-1 flame test designation. Cables are UL listed as Sunlight Resistant (1/0 AWG and larger, black only). Size 1/0 AWG and larger UL listed For CT Use. <p>CONSTRUCTION: Annealed copper conductor, Rome LSNH FR-XLPE thermosetting flame retardant chemically crosslinked polyethylene insulation, surface printed.</p>	 <p style="text-align: center;">Separator Tape</p> <p style="text-align: center;">Rome LSNH FR-XLPE Insulation</p> <p style="text-align: center;">Copper Conductor</p>
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Size AWG or kcmil	No. of Strands	Insulation Thickness Mils	Nom. Diam. Inches	Copper Conductor		
				Ampacity*		Approx. Net Wt. Lb./1000Ft.
				75°C Wet	90°C Dry	
Solid						
14	Solid	30	.13	20 ^t	25 ^t	19
12	Solid	30	.15	25 ^t	30 ^t	29
10	Solid	30	.17	35 ^t	40 ^t	43
Stranded						
14	7	30	.14	20 ^t	25 ^t	21
12	7	30	.16	25 ^t	30 ^t	31
10	7	30	.18	35 ^t	40 ^t	45
8	7	45	.24	50	55	71
6	7	45	.28	65	75	105
4	7	45	.32	85	95	160
2	7	45	.38	115	130	240
1	19	55	.44	130	150	305
1/0	19	55	.48	150	170	380
2/0	19	55	.52	175	195	470
3/0	19	55	.58	200	225	580
4/0	19	55	.63	230	260	725
250	37	65	.70	255	290	860
300	37	65	.75	285	320	1020
350	37	65	.80	310	350	1185
400	37	65	.85	335	380	1345
500	37	65	.93	380	430	1665
600	61	80	1.04	420	475	2040
750	61	80	1.14	475	535	2515
1000	61	80	1.29	545	615	3310

* Ampacity in accordance with NEC for not more than three conductors in raceway at the conductor temperature indicated, 30°C ambient temperature.

^t The over current protection shall not exceed 15 amperes for 14 AWG and 20 amperes for 12 AWG and 30 amperes for 10 AWG copper.

Specification

ROME LSNH XHHW, VW-1, LS

Rome LSNH FR-XLPE Insulation, 600 Volts

1. SCOPE

- 1.1 This specification describes single conductor Rome LSNH FR-XLPE, Type XHHW, a general purpose building wire insulated with low smoke non halogen flame-retardant crosslinked polyethylene intended for lighting and power circuits at 600 volts or less, in residential, commercial and industrial buildings. The wire may be operated at 90°C maximum continuous conductor temperature in dry locations and 75°C in wet locations and is listed by Underwriters Laboratories for use in accordance with Article 310 of the National Electric Code. All cables comply with UL's VW-1 (Vertical-Wire) Flame Test and with UL requirements for LS, Limited Smoke. Sizes 1/0 AWG and larger may be used in cable tray in accordance with Article 392 of the NEC.

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 44 for Rubber Insulated Wires and Cables.

3. CONDUCTORS

- 3.1 Conductors shall be Solid or Class B stranded annealed uncoated copper per UL Standard 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 Rome LSNH FR-XLPE, a flame retardant low smoke non halogen crosslinked polyethylene complying with the physical and electrical requirements of UL Standard 44 for Type XHHW. In addition, the insulation shall comply with the For CT Use (sizes 1/0 AWG and larger), VW-1 and LS ratings and the Gasoline and Oil Resistant I ratings of UL Standard 44.
- 5.2 The average thickness of insulation shall be as specified in UL Standard 44 for Type XHHW. 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, VW-1, type designation, LS, Gasoline and Oil Resistant I and Sunlight Resistant For CT Use (1/0 AWG and larger).

7. TESTS

- 7.1 Wire shall be tested in accordance with the requirements of UL Standard 44 for Type XHHW.

8. LABELS

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