



Specification: RHW-2/USE-2
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 Supersedes: 02/08/11

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1.0 Scope: This specification describes single conductor crosslinked polyethylene (XLP or XLPE) Type RHW-2 and USE-2 for use at 600 volts or less **RoHS** compliant. It is approved per the NEC for **DIRECT BURIAL**, general-purpose lighting, and power applications at a maximum continuous operating temperature of 90 degrees C in wet and dry locations. Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less. **Note:** Sunlight Resistant and VW-1 **available when required**.

2.0 Applicable Standards:

- 2.1 ASTM B-1, B-3, B-33 and B-8 for copper conductors.
- 2.2 ICEA S-95-658/NEMA WC70, ICEA S-66-524/NEMA WC7 Cross Linked Polyethylene Insulated Wire&Cable, UL 854 for Service Entrance Cables (incl. Para. 854-38.7 for 300 hr. sunlight resistance) and UL 44 for Thermoset Insulated Wires & Cables, Fed Spec J-C-30B, FAA L-824 Type C 600V

3.0 Conductors: The single copper conductors shall be solid or stranded annealed or hard, coated or uncoated copper per UL83 and ASTM requirements.

4.0 Insulation: The conductor shall be insulated with XLP or XLP-VW-1 as specified and applied tightly to the conductor in a concentric manner. These conductors are "Oil and Gasoline Resistant II". All black insulation is rated and identified "Sunlight Resistant". Other colors of Sunlight Resistant are available upon request. The minimum at any point shall not be less than 90% of the specified average thickness in compliance with UL 44.

5.0 Identification: The wire shall be identified in compliance with UL requirements by surface marking indicating the manufacturer, conductor size, voltage rating, UL symbol, type designation.

6.0 Packaging: Standard length spools have 500 or 2500 feet. Custom lengths are available.

7.0 Testing: The wire shall be continuously spark tested at 7500 Volts DC. Other electrical and mechanical tests shall be in accordance with UL 44, UL 854 and UL 1581.

AWG	Standard Number of Strands	Extra Flexible Stranding	Insulation Thickness Mils	Nominal Overall Diameter – Inches (standard strands)	Approx. Shipping Wgt. (Lbs./Mft.)
14	Solid or 7	41	45	0.16"/0.17"	21
12	Solid or 7	65	45	0.18"/0.19"	30
10	Solid or 7	37 or 105	45	0.20"/0.21"	44
8	7	1, 19, 133	60	0.27"	70
6	7	1, 19, 133	60	0.31"	106
4	7	1, 19, 133	60	0.35"	161
2	7	19, 133	60	0.41"	246
1	19	133	80	0.49"	318
1/0	19	133	80	0.53"	389

Non-standard STRANDING, COLORS, and CUSTOM PACKAGING are available by quotation.