

## USE-2 / RHH / RHW-2 XLP-USE-2 COPPER CONDUCTOR 600V, 90°C WET OR DRY

### APPLICATIONS

Single conductor cross linked polyethylene (XLP or XLPE) Type RHW-2 and USE-2 for use at 600 volts or less. It is approved per the NEC for general purpose lighting and power applications at a maximum continuous operating temperature of 90 °C in wet and dry locations. For use in free air, raceways or direct burial in accordance with NEC.

### CONSTRUCTION

The single copper conductors shall be solid or stranded annealed or hard uncoated copper per UL83 and ASTM requirements. Insulated with XLP as specified and applied tightly to the conductor in a concentric manner. All black insulation is rated Sunlight Resistant. The minimum at any point shall not be less than 90 % of the specified average thickness in compliance with UL 44. The wire shall be identified by surface marking indicating the manufacturer, conductor size, voltage rating, UL symbol, and type designation. The wire shall be continuously spark tested at 7500 Volts DC. Other electrical and mechanical tests shall be in accordance with UL44, UL 854 and UL 1581.

### STANDARDS

- ASTM B-1, B-3, and B-8 for copper conductors.
- 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.



Size AWG or MCM	Number of Strands	Insulation Thickness (mils)	Approximate O.D. (Inches)	Copper Weight (lbs. per MFT)	Shipping Weight (lbs. per MFT)	Ampacity 90 °C Dry
14	7	45	0.16	12.7	22	15
12	7	45	0.17	20.2	31	20
10	7	45	0.20	32.1	45	30
8	7	60	0.27	51.0	74	55
6	7	60	0.31	81.1	108	75
4	7	60	0.37	128.9	161	95
3	7	60	0.39	162.5	198	110
2	7	60	0.43	204.9	244	130
1	19	80	0.51	258.4	319	150
1/0	19	80	0.56	325.8	392	170
2/0	19	80	0.60	410.9	484	195
3/0	19	80	0.66	518.1	599	225
4/0	19	80	0.72	653.3	743	260
250	37	95	0.80	771.9	889	290
300	37	95	0.86	926.3	1053	320
350	37	95	0.91	1081	1217	350
400	37	95	0.94	1235	1379	N/A
500	37	95	1.05	1544	1703	430
600	61	110	1.16	1853	2056	475
750	61	110	1.27	2316	2540	535
1000	61	110	1.44	3008	3343	615