

PRODUCT SPECIFICATION XL-9604 I

TYPE: USE-2 OR RHW-2, CROSSLINKED POLYETHYLENE
600 VOLT, 90°C WET AND DRY
BUILDING WIRE AND CABLE

I. SCOPE:

This specification covers the basic requirements of a copper conductor insulated with crosslinked polyethylene and conforming to the requirements set forth by Underwriters' Laboratories, Inc. Standards. The cable has been dual rated and is known as Type USE-2 or Type RHW-2.

USE:

Type USE-2 is used at temperatures of 90°C in dry or wet locations at a voltage rating of 600 Volts maximum. It is mainly used for direct burial applications or as Underground Service Entrance.

Type RHW-2 is used at temperatures of 90°C in dry or wet locations, voltage rating 600 Volts. It is used mainly in applications between buildings, in conduit or ducts, or in open air.

The above Type USE-2 or Type RHW-2 when properly marked on the surface of the wire is dual rated for either Type and conforms to Underwriters' Laboratories, Inc.

These cables pass the 300 hr. Sunlight Resistance Test of UL 854, Par. 30.2.

II. CONSTRUCTION DATA:

A. CONDUCTOR:

Solid or stranded copper conductor conforming to the ASTM Standards B-3 and B-8 and Underwriters' Laboratories Inc. Standard UL 44 and UL 854.

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B. INSULATION:

The conductor shall be insulated with chemically black crosslinked polyethylene listed in Underwriters' Laboratories Bulletin UL 44 and UL 854, conforming to dimensions stated in Table I herein. The physical and electrical properties of the insulation shall conform to the requirements set forth in Underwriters' Laboratories, Inc. Standard UL 44 and UL 854 and ICEA S-66-524 NEMA WC-7 Part 3.6 for 90°C operation in wet or dry locations.

C. IDENTIFICATION:

The surface of the insulation shall be printed using an ink of contrasting color as follows in accordance with UL and NEC requirements:

"XLP (SIZE) AWG (OR KCMIL) USE-2 OR RHW-2 600 V.
AMERLINK-X A.I.W. CORP. (UL)"

When requested, wires can be furnished with "GASOLINE AND OIL RESISTANT II".

D. ASSEMBLY:

When specifically requested, individual conductors may be twisted together or paralleled.

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TABLE I							
SIZE AWG OR KCM	STRANDING	INSULATION THICKNESS (MILS)	NOMINAL O.D. (INCHES)	WEIGHT PER M. FT.	CURRENT CARRYING CAPACITY AMPERES*		FEET PER STANDARD PACKAGE
					75°C	90°C	
12	SOLID	45	.175	28	25	30	500 CTN
10			.195	42	35	40	
8			.250	67	50	55	
12	7 or 19	45	.190	29	25	30	500 COIL
10	7 or 19		.215	43	35	40	
8	7 or 19	60	.270	69	50	55	500 COIL
6	7 or 19		.310	103	65	75	
4	7 or 19		.360	155	85	95	
3	7 or 19		.385	196	100	110	
2	7 or 19		.415	236	115	130	
1	19	80	.495	303	130	150	REEL
1/0	19		.540	375	150	170	
2/0	19		.580	465	175	195	
3/0	19		.630	578	200	225	
4/0	19		.685	719	230	260	
250	37	95	.750	858	255	290	REEL
300	37		.805	1020	285	320	
350	37		.850	1180	310	350	
400	37		.890	1347	335	380	
500	37		.980	1658	380	430	
600	61	110	1.090	2001	420	475	REEL
700	61		1.195	2321	460	520	
750	61		1.200	2491	475	535	
800	61		1.230	2644	490	555	
1000	61		1.385	3283	545	615	

* Based on three insulated conductors in enclosed or exposed conduit, 30°C ambient temperature per Table 310.16 of the 2005 NEC.