

**XHHW-2 VW-1  
FR-CROSS-LINKED POLYETHYLENE INSULATION, 600 VOLT**

**SPEC 1-50-2**

Ver. 7.2  
Revised: 03/02/11



90°C CONDUCTOR TEMPERATURE, WET OR DRY							
	Conductor			Insulation in Mils	Approximate O.D. in Inches	Ampacity* 90°C	Approximate Net Weight LBS/KFT
	Size AWG or KCMIL	No. of Strands*	Nominal O.D				
<b>SINGLE CONDUCTOR 600 VOLT</b>							
<b>NON STOCK ITEM. PLEASE CONSULT FACTORY</b>	8	7	0.14	45	0.24	55	65
	6	7	0.18	45	0.28	75	100
	4	7	0.23	45	0.33	95	155
	3	7	0.25	45	0.35	110	190
	2	7	0.28	45	0.39	130	235
	1	19	0.32	55	0.45	150	300
	1/0	19	0.36	55	0.49	170	365
	2/0	19	0.41	55	0.53	195	465
	3/0	19	0.46	55	0.58	225	570
	4/0	19	0.51	55	0.64	260	720
	250	37	0.56	65	0.71	290	845
	300	37	0.61	65	0.76	320	1005
	350	37	0.66	65	0.81	350	1170
	400	37	0.71	65	0.84	380	1315
	500	37	0.79	65	0.94	430	1645
	600	61	0.87	80	1.04	475	1970
	750	61	0.97	80	1.14	535	2465
1000	61	1.12	80	1.30	615	3260	

**Note:** \*Based on three conductors in raceway or conduit, 30°C ambient temperature per NEC.  
\*19W strand is combination unilay per ASTM 787.

The above data is approximate and subject to normal manufacturing tolerances.

**SAMPLE LEGEND (BLACK ONLY):**

2 AWG (33.6mm<sup>2</sup>) TYPE XHHW-2 VW-1 600V SUN-RES (UL) E31697  
1/0 AWG (53.5mm<sup>2</sup>) TYPE XHHW-2 VW-1 600V SUN-RES FOR CT USE (UL) E31697

**LISTINGS AND RATINGS:**

1. Listed by UL as Type XHHW-2 VW-1 per Standard UL 44.
2. Sizes 1/0 AWG and larger are listed by UL for CT Use per Standard UL 1685.
3. Sizes 1/0 AWG and larger pass IEEE 383 & 1202 (FT4) Vertical Tray Flame Tests.
4. Conforms to ICEA S-95-658/NEMA WC70 Nonshielded 0-2KV Cables.
5. Conforms to Federal Specification J-C-30B.

AETNA INSULATED WIRE, LLC  
1537 AIR RAIL AVENUE, VIRGINIA BEACH, VA 23455  
TELEPHONE: (800) 423-6505 FAX: (757) 605-2094  
WWW.AETNAWIRE.COM

