




XHHW-2 ALUMINUM CONDUCTOR

APPLICATION: KINGWIRE 600/1000 Volt Type XHHW-2 is intended for use as general purpose wiring for up to 1000 volt rated services in air, conduit, or other recognized raceways for services, feeders, and branch circuit wiring as specified in the National Electrical Code (NFPA 70) at a maximum conductor temperature of 90°C in wet or dry locations.

PRODUCT FEATURES: Compact stranded 8000 Series aluminum alloy conductor. Insulation is an abrasion, moisture, heat and sunlight resistant black cross-linked polyethylene. Cable can be installed without pulling lubricant. UL listed VW-1 (vertical flame test). UL listed for CT Use (1/0 AWG and larger). UV/Sunlight Resistant.

STANDARDS:  UL 44, ASTM B800, B801, ICEA S-95-658 (NEMA WC 70)
Federal Specification A-A59544 (formerly J-C-30B)
Compliant to RoHS (Directive 2011/65/EU)

COLORS: Sizes 6 to 2 AWG are stocked in Black, White, Red, Blue and Green.
Sizes 1 AWG to 750 Kcmil stocked in all the above colors plus Brown, Yellow, Orange, Gray, Green and Purple.
Sizes 4/0 AWG to 750 Kcmil are also stocked in Pink and Tan.

KINGWIRE XHHW-2 Physical Characteristics								
Conductor Size	Stranding	Conductor Nominal Diameter	Insulation Thickness	Nominal Outside Diameter	AL Weight	Nominal Cable Weight	Maximum Pulling Tension	Minimum Bending Radius*
AWG/Kcmil	Min. No.	inch	mils	inch	lb/1000ft	lb/1000ft	lb	inch
6	7	0.169	45	0.263	25	39	157	1.1
4	7	0.213	45	0.307	39	57	250	1.2
2	7	0.268	45	0.362	63	84	398	1.4
1	18	0.299	55	0.414	79	108	502	1.7
1/0	18	0.336	55	0.451	99	132	634	1.8
2/0	18	0.376	55	0.491	125	161	799	2.0
3/0	18	0.423	55	0.538	158	198	1007	2.2
4/0	18	0.475	55	0.590	199	244	1270	2.4
250	35	0.520	65	0.656	235	292	1500	2.6
300	35	0.570	65	0.706	282	348	1800	2.8
350	35	0.616	65	0.752	329	396	2100	3.0
400	35	0.659	65	0.795	376	448	2400	3.2
500	35	0.736	65	0.872	471	550	3000	3.5
600	58	0.813	80	0.981	565	671	3600	3.9
700	58	0.877	80	1.045	659	774	4200	5.2
750	58	0.908	80	1.076	706	824	4500	5.4
900	58	0.999	80	1.167	847	979	5400	5.8
1000	58	1.060	80	1.228	941	1079	6000	6.1

- Data are approximate and subject to normal manufacturing tolerances.
- Standard stock lengths are subject to normal manufacturing tolerance of +/- 10%
- Two, Three or Four conductors can be paralleled on a reel.


*Minimum bending radius shown applies to permanent installation. Larger radius should be used during cable pulling.



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KINGWIRE XHHW-2 <i>Electrical Characteristics</i>					
Conductor Size	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance ⁺	Ampacity* @ 75°C	Ampacity* @ 90°C
AWG/Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	amps	amps
6	0.674	0.82	0.051	50	55
4	0.424	0.51	0.048	65	75
2	0.267	0.32	0.045	90	100
1	0.211	0.26	0.046	100	115
1/0	0.168	0.20	0.044	120	135
2/0	0.133	0.16	0.043	135	150
3/0	0.105	0.13	0.042	155	175
4/0	0.084	0.10	0.041	180	205
250	0.071	0.086	0.041	205	230
300	0.059	0.071	0.041	230	260
350	0.051	0.062	0.040	250	280
400	0.044	0.054	0.040	270	305
500	0.035	0.044	0.039	310	350
600	0.029	0.036	0.039	340	385
700	0.025	0.032	0.038	375	425
750	0.024	0.031	0.038	385	435
900	0.020	0.027	0.037	425	480
1000	0.018	0.025	0.037	445	500

*Ampacities are based on NEC 2023 Table 310.16, Ampacities of Insulated Conductors in Raceway, Cable, or Earth (Directly Buried). Not more than 3 current-carrying conductors. Ambient temperature of 30°C

+Inductive reactance based on NEC 2023 Table 9, 600-Volt Cables, 3-Phase, 60 Hz, 75°C, 3-1/C in Conduit (PVC or Aluminum)