KINGWIRE®

(847) 688-1100

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 gauge are stocked in Black, White, Red, Blue and Green. Sizes 1 to 750MCM stocked in all the above colors plus Brown, Yellow, Orange, Gray, Green and Purple.

KINGWIRE XHHW-2 *Physical Characteristics*

Conductor Size (AWG/Kcmil) & Stranding	Conductor Nominal Diameter (in)	Insulation Thickness (mils)	Nominal Insulation Diameter (in)	Nominal Weight (lb/1000ft)	Maximum Pulling Tension (lb)	Minimum Bending Radius* (in)
6 (7/w)	0.169	45	0.260	39	157	1.0
4 (7/w)	0.213	45	0.305	57	250	1.2
2 (7/w)	0.268	45	0.360	84	398	1.4
1 (19/w)	0.299	55	0.415	108	502	1.7
1/0 (19/w)	0.336	55	0.450	132	634	1.8
2/0 (19/w)	0.376	55	0.490	161	799	2.0
3/0 (19/w)	0.423	55	0.540	198	1007	2.2
4/0 (19/w)	0.475	55	0.590	244	1270	2.4
250 (37/w)	0.520	65	0.655	292	1500	2.6
300 (37/w)	0.570	65	0.705	344	1800	2.8
350 (37/w)	0.616	65	0.750	396	2100	3.0
400 (37/w)	0.659	65	0.795	448	2400	3.2
500 (37/w)	0.736	65	0.870	550	3000	3.5
600 (58/w)	0.813	80	0.980	671	3600	3.9
700 (58/w)	0.877	80	1.040	774	4200	5.2
750 (58/w)	0.908	80	1.075	824	4500	5.4
900 (58/w)	0.999	80	1.165	979	5400	5.8
1000 (58/w)	1.060	80	1.230	1079	6000	6.2

- Data are approximate and subject to normal manufacturing tolerances.
- Standard 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 training. Larger radius should be used during cable pulling.

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KINGWIRE XHHW-2 *Electrical Characteristics*					
Conductor Size (AWG/Kcmil) & Stranding	DC Resistance @ 25°C (Ω/1000ft)	AC Resistance @ 75°C (Ω/1000ft)	Inductive Reactance+ (Ω/1000ft)	Ampacity (amps)* 75°C	Ampacity (amps)* 90°C
6 (7/w)	0.674	0.82	0.051	50	55
4 (7/w)	0.424	0.51	0.048	65	75
2 (7/w)	0.267	0.32	0.045	90	100
1 (19/w)	0.211	0.26	0.046	100	115
1/0 (19/w)	0.168	0.20	0.044	120	135
2/0 (19/w)	0.133	0.16	0.043	135	150
3/0 (19/w)	0.105	0.13	0.042	155	175
4/0 (19/w)	0.084	0.10	0.041	180	205
250 (37/w)	0.071	0.086	0.041	205	230
300 (37/w)	0.059	0.071	0.041	230	260
350 (37/w)	0.051	0.062	0.040	250	280
400 (37/w)	0.044	0.054	0.040	270	305
500 (37/w)	0.035	0.044	0.039	310	350
600 (58/w)	0.029	0.036	0.039	340	385
700 (58/w)	0.025	0.032	0.038	375	425
750 (58/w)	0.024	0.031	0.038	385	435
900 (58/w)	0.020	0.027	0.037	425	480
1000 (58/w)	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)