

600 Volt TYPE XHHW-2 CT

Low Voltage Building Wire



Description

Single copper conductor with 600 Volt, XLPE insulation.

Specifications

UL- UL 44

FED- Federal Specification JC-30B

ICEA- ICEA S-95-658

IEEE- IEEE 383 Flame Test (1/0 AWG and Larger)

For 90°C Wet or Dry Operation.

Ratings

CT Use (1/0 AWG and Larger)

Type XHHW-2

VW-1

Sunlight Resistant

Design Parameters

CONDUCTOR: Single conductor, Class B concentric compressed stranded annealed copper or Class B concentric compact aluminum Series 8000 per ASTM with separator tape.

INSULATION: High quality, tough, heat resistant, and moisture resistant, thermosetting cross-linked polyethylene insulation.

Options

- Compact Copper Conductor
- Compressed Aluminum Conductor

Installations



Conduit in Air



Isolated in Air



Wet Locations



Dry Locations



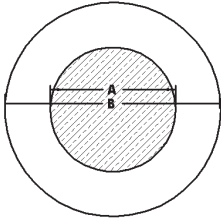
In Cable Tray



Industrial

600 Volt TYPE XHHW-2 CT RATED

Low Voltage Building Wire



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in.)		Overall Diameter (in.)	Cable Weight (lbs/1000ft)	† Ampacity (Amps)	
			(A)	(B)			Raceway	In Free Air
600 Volt Copper								
Q0081AA	8 AWG CU	45	0.143	0.24	64	55	80	
Q0181AA	6 AWG CU	45	0.180	0.27	96	75	105	
Q0281AA	4 AWG CU	45	0.226	0.32	147	95	140	
QYZ039A	3 AWG CU	45	0.253	0.34	181	115	165	
Q0381AA	2 AWG CU	45	0.284	0.38	228	130	190	
Q0681AA	1 AWG CU	55	0.324	0.44	289	145	220	
Q0881AA	1/0 AWG CU	55	0.364	0.48	361	170	260	
Q0981AA	2/0 AWG CU	55	0.408	0.53	449	195	300	
Q0A81AA	3/0 AWG CU	55	0.458	0.58	560	225	350	
Q0B81AA	4/0 AWG CU	55	0.515	0.63	700	260	405	
Q0C81AA	250 MCM CU	65	0.561	0.70	829	290	455	
QYZ040A	300 MCM CU	65	0.614	0.75	988	320	500	
Q0D81AA	350 MCM CU	65	0.664	0.80	1147	350	570	
QYZ041A	400 MCM CU	65	0.710	0.85	1312	380	615	
Q0E81AA	500 MCM CU	65	0.794	0.94	1620	430	700	
QYZ042A	600 MCM CU	80	0.870	1.04	1958	475	780	
Q0F81AA	750 MCM CU	80	0.974	1.15	2444	535	885	
Q0G81AA	1000 MCM CU	80	1.124	1.29	3273	615	1055	

PRODUCT NOTES:

⁵ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

†Ampacities are based on the following:

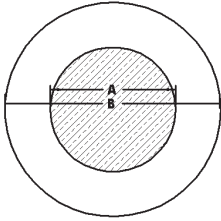
In Raceway 2011 NEC Table 310.15(B)(16) : Not more than three current-carrying conductors, 90°C conductor temperature, and 30°C ambient temperature.

In Free Air 2011 NEC Table 310.15(B)(17): Single-insulated conductor, 90°C conductor temperature, and 30°C ambient temperature.

In Cable Tray 2011 NEC 392.80(A)(2)(c): For single-conductor cables 1/0 AWG and larger, ampacities shall not exceed the allowable ampacities stated in NEC Table 310-17.

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			(A)	(B)			Raceway	In Free Air
600 Volt Series 8000 Aluminum								
Q0J81AA	6 AWG AL	45	0.171	0.27	39	55	85	
Q0K81AA	4 AWG AL	45	0.215	0.32	59	75	115	
Q0M81AA	2 AWG AL	45	0.266	0.37	86	100	150	
Q0O81AA	1 AWG AL	55	0.299	0.42	112	115	175	
Q0Q81AA	1/0 AWG AL	55	0.336	0.46	135	135	205	
Q0R81AA	2/0 AWG AL	55	0.379	0.50	164	150	235	
Q0S81AA	3/0 AWG AL	55	0.423	0.55	203	175	270	
Q0T81AA	4/0 AWG AL	55	0.479	0.60	246	205	315	
Q0U81AA	250 MCM AL	65	0.520	0.66	298	230	355	
30654AA	300 MCM AL	65	0.570	0.71	345	260	395	
Q0V81AA	350 MCM AL	65	0.622	0.76	398	280	445	
306561A	400 MCM AL	65	0.659	0.80	449	305	480	
Q0W81AA	500 MCM AL	65	0.742	0.88	552	350	545	
Q0X81AA	750 MCM AL	80	0.917	1.09	824	435	700	
Q0Y81AA	1000 MCM AL	80	1.071	1.24	1074	500	845	

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