

QI® XHHW/XHHW-2 Aluminum AA-8000



A Viakable Company

XLPE Insulated, 600/1000 V

Features

UL Listed as Types XHHW/XHHW-2.

Voltage rating for XHHW-2 conductors is 600 volts and 1000 volts for sizes 6 AWG and larger

Sunlight Resistant in all colors.

Use of lubrication is not mandatory to install QI® XHHW/XHHW-2 conductors in the raceways.

Complete cable is Lead Free and RoHS compliant.

Complete cable is Silicon Free

Application

These cables are used for general purpose wiring in circuits not exceeding 600/1000 volts as indicated for the sizes.

May be used in wet or dry locations, installed in conduit, duct, or open air in accordance with requirements of the NEC®.

Suitable for use in low leakage circuits per NEC requiring a dielectric constant less than 3.5.

Standards

UL 44

Thermoset-Insulated Wires and Cables.

ICEA S-95-658/
NEMA WC70

Nonshielded 0 – 2 kV cables.

Specifications

Maximum operating voltage:

- 600/1000 volts

Maximum conductor operation temperatures:

- 90 °C wet and dry

Engineering Information

1. Conductor: Aluminum AA-8000 alloy compacted conductor, Class B stranding, per ASTM B801.

Sizes: 6 AWG – 1000 kcmil

On request, larger sizes available.

2. Separator: A suitable opaque tape, as required.

3. Insulation: Black Thermoset flame retardant cross-linked polyethylene (XLPE).

On request, colored insulation.

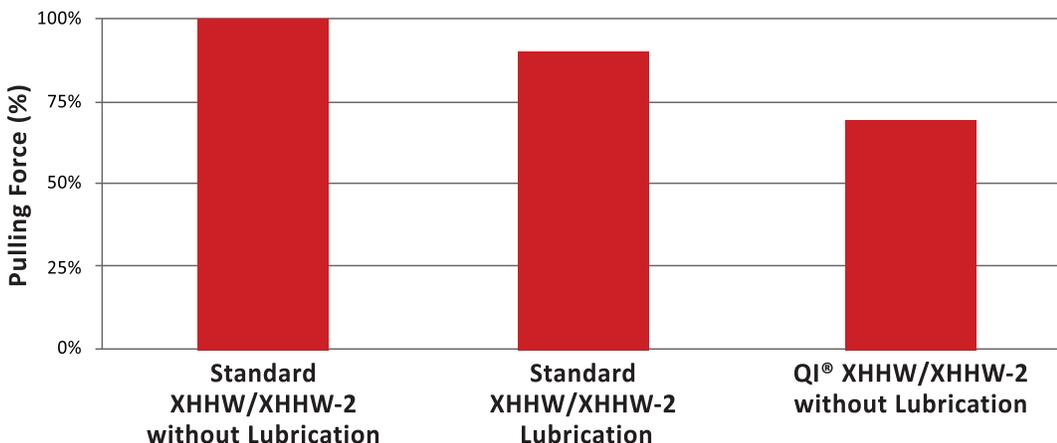
Installation Performance

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2
3

A significant reduction (30%) in the pulling force is achieved for QI® XHHW/XHHW-2 when compared to the pulling force required for Standard XHHW/XHHW-2 without any lubricant. Further, this reduction is comparable to the reduction achieved when the Standard XHHW/XHHW-2 conductors are pulled using a lubricant in identical installation. These results demonstrate that it is feasible to install the QI® XHHW/XHHW-2 conductors without the use of a lubricant in an NFPA 70 (NEC®) compliant installation.

Pulling Force for QI® XHHW/XHHW-2

500-500-500-1/0 XHHW/XHHW-2 conductors in 3" EMT Conduits with four 90° Bends
Conduit fill: 30.8%



Technical Data

QI® XHHW/XHHW-2 600/1000 V

Size AWG or kcmil	Part Number*	Number of Strands	Insulation Thickness	Approximate Outside Diameter	Approximate Net Weight
			mil	in	lb/kft
Stock Items					
6	4070**CUT	7	45	0.26	40
4	4080**CUT	7	45	0.31	59
3	4090**CUT	7	45	0.35	62
2	4100**CUT	7	45	0.36	87
1	4105**CUT	19	55	0.41	110
1/0	4110**CUT	19	55	0.45	134
2/0	4120**CUT	19	55	0.49	165
3/0	4130**CUT	19	55	0.54	202
4/0	4140**CUT	19	55	0.59	249
250	4250**CUT	37	65	0.66	295
300	4300**CUT	37	65	0.71	348
350	4350**CUT	37	65	0.75	400
400	4400**CUT	37	65	0.80	452
500	4500**CUT	37	65	0.87	555
600	4600**CUT	61	80	0.98	672
750	4750**CUT	61	80	1.08	827
900	4900**CUT	61	80	1.17	1000
Non-stock Items - Made-to-Order (subject to minimum runs and lead time.)					
1000	41000**CUT	61	80	1.23	1082

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.

‡ **For Made-to-order items:** Minimum Runs, Pricing & Lead Times are subject to the plant's production schedule.

**Color Identification: Example: 4750BECUT = 750 kcmil, Blue.

CME Color Coding

..	BK	BE	BN	GN	GY	OE	PE	RD	WE	YW
Color	Black	Blue	Brown	Green	Grey	Orange	Purple	Red	White	Yellow

PRINT LEGENDS QI® Sizes:

CME WIRE AND CABLE QI® E137698 (UL) XHHW-2 Size AWG (Size mm2) COMPACT AA 8000 AL 600V/1000V XLPE SUN RES YEAR.