

# MC Feeder, XHHW-2 Aluminum

AI-8000, XLPE Insulated, 600/1000 V



A Viakable Company

## Features

- UL listed as MC.
- Single conductors are rated XHHW-2.
- Voltage rating for XHHW-2 conductors is 600 volts and 1000 volts for sizes 6 AWG and larger
- Cable rated for Sunlight Resistance
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems.

## Application

These cables according to NEC, are permitted to be installed for services, feeders, and branch circuits, and for power, lighting, control, and signal circuits not exceeding 600/1000 volts as indicated for the sizes.

May be used in wet or dry locations, where exposed or concealed, installed in cable trays, raceways, duct, and open air, aerially.

In cable tray and approved raceways.

In hazardous (classified) as Class I Div. 2, Class II Div. 2 & Class III Div. 1. in accordance with NEC.

Per NEC 300.22 (C), in environmental air-handling spaces.

## Standards

- UL 1569
- Metal Clad Cables.
- UL 44
- Rubber-Insulated wires and cables.
- ICEA S-95-658
- Standard for Nonshielded Power Cables Rated 2000 Volts or Less.
- IEEE 1202
- IEEE Standard for Flame-Propagation Testing of Wire and Cable.
- Federal Specification A-A599544 (formerly J-C-30B)

## Specifications

Maximum operating voltage:

- 600/1000 volts

Maximum conductor operation temperature:

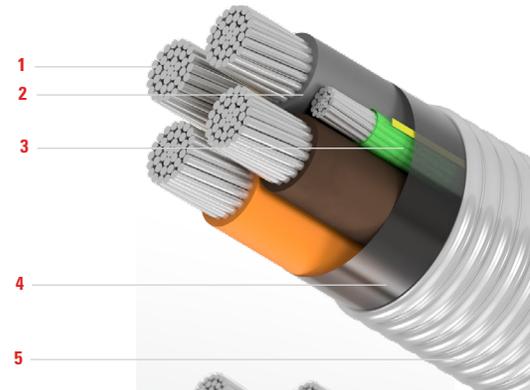
- 90 °C wet and dry

## Engineering Information

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

**Sizes:** 6 AWG up to 750 kcmil.

**2. Insulation:** Flame retardant thermoset crosslinked polyethylene (XLPE).



**Conductor Identification:** Extruded colored Insulation or Longitudinal extruded colored stripes.

# Cdr.	Color Code 110/208V				GND
3	BK	RD	WE	-	GN
4	BK	RD	WE	BE	GN

#	Color Code 277/480V				GND
3	BN	OE	YW	-	GN
4	BN	OE	YW	GY	GN

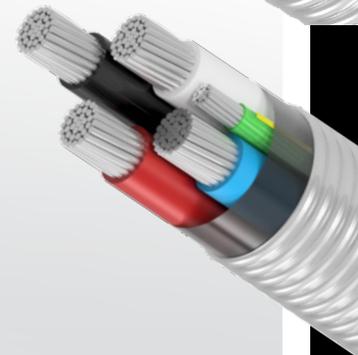
#	Color Code Industrial 120/208V (BK / Stripes)				GND
3	BK	BK/ RD	BK/ WE	-	GN
4	BK	BK/ RD	BK/ WE	BK/ BE	GN

**3. Grounding:** One bare aluminum alloy (AA-8000) compacted stranded conductor.

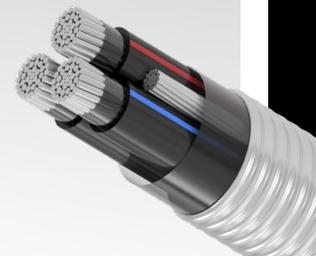
*On request, insulated ground.*

**4. Assembly:** Phase and grounding conductors cabled together with binder tape.

**5. Armor:** Aluminum interlocked armor, applied over the binder tape and a longitudinal marker tape, for ID.



FOUR CONDUCTOR



THREE CONDUCTOR

Technical Data

### Three Conductors Armored

Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Minimum Grounding* Conductor Size AWG	Approximate OD Over Armor in	Approximate Net Weight	
					Steel Armor lb/kft	Aluminum Armor lb/kft
6	7	45	8	0.78	547	351
4	7	45	6	0.89	724	516
2	7	45	6	0.99	875	643
1	19	55	4	1.12	1051	785
1/0	19	55	4	1.18	1170	887
2/0	19	55	4	1.26	1322	1019
3/0	19	55	4	1.36	1516	1186
4/0	19	55	2	1.52	1712	1399
250	37	65	2	1.66	1959	1615
300	37	65	2	1.80	2220	1827
350	37	65	2	1.87	2447	2055
500	37	65	1	2.13	3145	2694
600	61	80	4/0	2.45	3428	2913
750	61	80	1/0	2.57	4458	3909

### Four Conductors Armored

Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Minimum Grounding* Conductor Size AWG	Approximate OD Over Armor in	Approximate Net Weight	
					Steel Armor lb/kft	Aluminum Armor lb/kft
6	7	45	8	0.87	684	479
4	7	45	6	0.99	852	613
2	7	45	6	1.10	1046	776
1	19	55	4	1.25	1260	948
1/0	19	55	4	1.33	1414	1081
2/0	19	55	4	1.41	1600	1243
3/0	19	55	4	1.55	1777	1440
4/0	19	55	2	1.71	2104	1727
250	37	65	2	1.85	2391	1979
350	37	65	2	2.07	2997	2528
500	37	65	1	2.37	3959	3406
600	61	80	4/0	2.72	4184	3556
750	61	80	1/0	2.85	5536	4855

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.

\* At the option of manufacturer, Ground Conductor can be divided in three, one in each interstice.