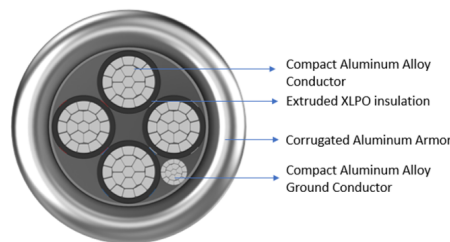
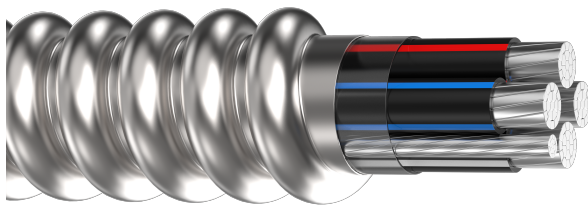


POLYCAB TYPE MC XHHW-2 ALUMINIUM FEEDER

Industrial Cable, UL 1569, 600 V



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB Type MC XHHW-2 Aluminium Conductor 600 V Grade, with ground conductor, lightweight Aluminium interlocked armour cable is suitable to use in branch, feeder, and service power distribution under high ambient temperatures in Industrial Park, commercial, institutional and residential buildings as power, lighting, control and signal circuits. This cable may be installed in concealed or exposed situation also may be embedded in plaster as well as in cable tray and approved raceways. Also, it can be installed in environmental air handling spaces as per NEC 300.22(C), assembly places as per NEC 518.4 and theatres as per NEC 520.5. Again it can be used as information technology equipment conductors and cables as per NEC 645.5(D) & 645.5(D)(2).

CHARACTERISTICS

Voltage Rating
600 V

Operation Temperature
-40°C to 90°C

CONSTRUCTION

- Conductor: AA-8000 series stranded compacted Aluminium Alloy conductor as per ASTM B-801
- Insulation: Extruded XLPO insulation as per UL 44
- Grounding Conductor: Uncoated bare/green insulated compact Aluminium conductor as per UL 1569
- Metal covering: Continuous corrugated and impervious aluminium interlocked armour over the assembly as per UL 1569

Core Identification

Phase conductors are Black with two extruded stripes.

Number of conductors		Colour sequence
		120/208V
3		Black, Black-Red, Black-White
4		Black, Black-Red, Black-Blue, Black-White
Grounding conductor		Bare

Bending Radius

18 X Overall diameter

A-C Spark Test

As per UL 44

OUTSTANDING FEATURES

- High insulation resistance
- Resistant to low temperature
- Moisture resistant

STANDARD FOLLOWS

- ASTM B800 For 8000 series Aluminium alloy wire
- ASTM B801 for Concentric lay stranded conductors of 8000 series Aluminium alloy
- UL 44 For Thermoset insulated wires and cables
- UL 1569 for Metal Clad cable
- ICEA S-95 658 NEMA WC-70 Power cables rated 2000 Volts or less for distribution of electrical energy.
- UL 1685 and IEEE 383 Vertical Tray fire propagation at 70000 BTU/hr, IEC 60332-3 category A fire test IEEE 1202 and CSA FT4.
- Suitable for class I, II and III, division 1 & 2 as per NEC 2008 and NEC 2011
- UL 2556 Wire and Cable test method
- REACH/RoHS-2 Compliant

COMPLIANCE

Conductor resistance test	ASTM B-801
Insulation resistance	UL 44
Cold bend test	UL 44
Tension	UL 1569
Water absorption	UL 1569

OUR ACCREDITATIONS



APPROVAL



POLYCAB TYPE MC XHHW-2 ALUMINIUM FEEDER

Industrial Cable, UL 1569, 600 V

Table 1: Dimensional and Electrical Characteristics

Conductor Size	No. of cores	Size of Grounding conductor	Colour of Grounding Conductor	Approx. Overall Diameter	Approx. weight	Allowable ampacity Amp.		Maximum DC resistance at 20°C
AWG/Kemil	No.	AWG		inches	lbs/Mft	75°C	90°C	Ω/Mft
CONDUCTOR COLOURS 120/208 V								
6	3	6	Bare	0.831	236	50	55	0.674
6	4	6	Bare	0.898	289	50	55	0.674
4	3	6	Bare	0.926	306	65	75	0.424
4	4	6	Bare	1.005	378	65	75	0.424
2	3	4	Bare	1.047	418	90	100	0.267
2	4	4	Bare	1.180	562	90	100	0.267
1	3	4	Bare	1.170	568	100	115	0.211
1	4	4	Bare	1.278	704	100	115	0.211
1/0	3	6	Green	1.250	706	120	135	0.168
2/0	3	6	Green	1.342	815	135	150	0.133
500	4	2/0	Green	2.460	3047	310	350	0.0354

*Above data is approximate and subject to standard manufacturing tolerance

**Ampacities are based on NEC 310.15(B)(16), 2014 edition. Insulated conductors are rated upto and including 2000V where ambient temperature is 30°C.

As per NEC 310.15(B)(2)(a) the ampacity of 4/c cables shall be reduced by a factor of 0.8 when the neutral is considered a current carrying conductor