



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB AL XHHW/XHHW-2, cable with AA8000 series aluminum alloy conductor, cross linked polyolefin insulation is intended to use in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial application as specified in National Electrical Code 2011. Type XHHW is suitable to use in dry location with ambient temperature not exceeding 90°C or in wet location not exceeding 75°C and Type XHHW-2 is suitable to use in wet or dry location with ambient temperature not exceeding 90°C, suitable to use in healthcare facilities.

## CHARACTERISTICS

### Voltage Rating

600 V

### Operation Temperature

-40°C to 90°C

## CONSTRUCTION

- AA-8000 series stranded compacted Aluminum Alloy conductor as per ASTM B-801.
- Insulated with abrasion, moisture, and heat resistant thermoset E-beam cross linked polyolefin to UL 44

### Core Identification

Available in Red, Black, White, Blue, Purple, Green, Yellow, Orange, Brown, and Grey.

### Bending Radius

12 x Overall Diameter

### A-C Spark Test

As per UL 44

## OUTSTANDING FEATURES

- Heat resistant
- Oil resistant (PR II)
- Sunlight resistant
- Gasoline resistant
- Moisture resistant
- Flame retardant

## STANDARD FOLLOWS

UL 44

ASTM B-801

NEC, NFPA 70, 2011 Edition

NEMA WC 70 construction requirement

## COMPLIANCE

Conductor resistance test	ASTM B8
Insulation resistance	UL 44
Cold bend test	UL 44
Smoke emission	UL 44
Halogen acid gas emission	UL 44
Weather resistance	UL 44
Oil resistance (PR II)	UL 44
Gasoline & oil resistance	UL 44
VW-1, FT1, FT2	UL 44
FT4 and CT Flame rated (for 1/0 AWG and above)	UL 1685
RoHS and REACH Compliant	

## OUR ACCREDITATIONS



## APPROVAL



## NOTES

Other colours are available subject to economic order quantity.

Dimensional and Electrical characteristics:

No. of core	Conductor size	Number of strands	Insulation thickness	Nominal overall diameter	Approximate Weight	*Allowable ampacity Amp.			Maximum DC resistance at 20°C
						60°C	75°C	90°C	
	AWG or kmil		mils	mils	Lbs/1000 ft				Ω/km
1	8	7	45	225	29	35	40	45	3.4464
1	6	7	45	261	39	40	50	60	2.1684
1	4	7	45	305	56	55	65	75	1.3633
1	2	7	45	361	82	75	90	100	0.8573
1	1	18	55	427	107	85	100	115	0.6798
1	1/0	18	55	448	130	100	120	135	0.5387
1	2/0	18	55	488	158	115	135	150	0.4275
1	3/0	18	55	535	195	130	155	175	0.3389
1	4/0	18	55	587	240	150	180	205	0.269
1	250	22	65	655	290	170	205	230	0.2277
1	300	35	65	700	340	195	230	260	0.1896
1	350	35	65	746	392	210	250	280	0.1624
1	400	35	65	790	444	225	270	305	0.1424
1	500	35	65	865	542	260	310	350	0.1139
1	600	58	80	983	665	285	340	385	0.0948
1	700	58	80	1050	768	310	375	420	0.0814
1	750	58	80	1081	819	320	385	435	0.0758

\*Allowable ampacities shown are for general use as specified by the National Electrical Code 2011 Edition Section 310.16 & 240.4(D).

60°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

75°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

90°C – XHHW wet or dry locations for ampacity adjustment purposes using NEC section 310.16

\*For compact stranded construction the number of wires as permitted by UL 44 and ASTM B-801 may be reduced as follows

19 wire Construction - 18 wires minimum

37 wire Construction - 35 wire minimum

61 wire Construction - 58 wires minimum