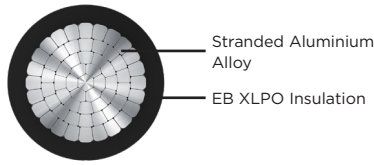


POLYCAB AL XHHW-2/XHHW

INDUSTRIAL CABLE, UL 44, 600 V AC



SPECIAL FEATURES

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

APPLICATION

POLYCAB AL XHHW-2, cable with AA8000 series aluminium conductor, cross linked polyethylene 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-2 is suitable to use in wet or dry location with ambient temperature not exceeding 90°C and recommended for application in health care facilities as per section 517.160 of NEC where dielectric constant less than 3.5 may be specified. The cable is designed to be installed without the application of pulling lubricants.

VOLTAGE RATING

600 V

OPERATION TEMPERATURE

-40°C to 90°C

CONSTRUCTION

- AA-8000 series stranded compacted Aluminium 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

Conductor Size 2 AWG and larger are marked as sunlight resistant in Black colours only. Other Colours are available and may be subject to economic order quantity.

BENDING RADIUS

12 x Overall Diameter

STANDARD AND REFERENCES

UL 44
ASTM B-801
NEC, NFPA 70, 2011 Edition
NEMA WC 70 construction requirement
RoHS/REACH Compliant

APPROVAL

As per UL 44

COMPLIANCE

Conductor resistance test	ASTM B-801
Insulation resistance	UL 44
Cold bend test	UL 44
Flame and smoke test	UL 44
Smoke emission	UL 44
Fire propagation	UL 44
Halogen acid gas emission	UL 44
Weather resistant	UL 44
Oil resistant (PR II)	UL 44
Gasoline & oil resistance	UL 44



OUR ACCREDITATION



POLYCAB AL XHHW-2/XHHW

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DIMENSIONAL AND ELECTRICAL CHARACTERISTICS

No. of core	Conductor size AWG or kcmil	Number of strands	Insulation thickness mils	Nominal overall diameter mils	Approximate Weight per 1000 ft lbs	*Allowable ampacity Amp.			Maximum DC resistance at 20°C Ω/km
						60°C Amp	**75°C Amp.	**90°C Amp.	
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



OUR ACCREDITATION

