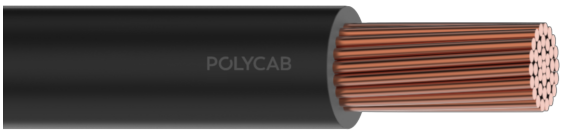
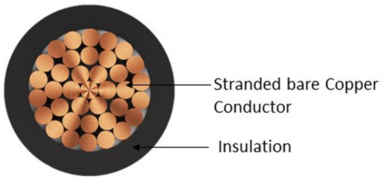
POLYCAB COPPER XHHW/XHHW-2
Industrial Cable, UL 44, 600 V AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB Cu XHHW/XHHW-2, cable with solid or stranded copper 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
Size smaller than 8 AWG – 600 V
Size 8 AWG and above – 1000 V

Operation Temperature
-40°C to 90°C

CONSTRUCTION

- Solid Copper conductor or Stranded Copper conductor as per ASTM B-3, ASTM B-8
- Insulated with heat resistant, flame retardant, low smoke 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
- Flame retardant
- Oil resistant (PR II)
- Sunlight resistant
- Gasoline resistant
- Moisture resistant

STANDARD FOLLOWS

UL 44
UL 2556
ASTM B3, ASTM B8
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.

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POLYCAB
IDEAS. CONNECTED.

Dimensional and Electrical characteristics

No. of core	Conductor size	Number of strands	Insulation thickness	Nominal Overall diameter	Approximate Weight	*Allowable ampacity		Maximum DC resistance at 20°C
						**75°C	**90°C	
	AWG or kcmil		mils	mils	Lbs/1000 ft	Amp.	Amp.	Ω/km
1	14	7	30	127	19	20	25	8.62
1	12	1	30	141	27	25	30	5.31
1	10	1	30	162	41	35	40	3.34
1	12	7	30	146	28	25	30	5.43
1	10	7	30	167	41	35	40	3.41
1	8	7	45	225	68	50	55	2.14
1	6	7	45	261	102	65	75	1.35
1	4	7	45	310	154	85	95	0.848
1	3	7	45	338	191	100	115	0.673
1	2	7	45	367	235	115	130	0.534
1	1	19	55	426	303	130	145	0.423
1	1/0	19	55	464	372	150	170	0.335
1	2/0	19	55	513	466	175	195	0.266
1	3/0	19	55	567	579	200	225	0.211
1	4/0	19	55	622	719	230	260	0.167
1	250	37	65	689	859	255	290	0.142
1	300	37	65	742	1022	285	320	0.118
1	350	37	65	797	1181	310	350	0.101
1	400	37	65	843	1341	335	380	0.0885
1	500	37	65	927	1659	380	430	0.0709
1	600	61	80	1035	2015	420	475	0.059
1	700	61	80	1114	2335	460	520	0.0506
1	750	61	80	1149	2502	475	535	0.0472
1	1000	61	80	1300	3290	545	615	0.0354

*Mentioned ampacity values are for general use as per the National Electrical Code 2011 Edition, Section 310.16 and 240.4(D).
These ampacities are of single insulated conductors in free air based on ambient air temperature of 30°C.
**75°C - For conductor size larger than 1 AWG when terminated to equipment for circuit rated over 100 amp.
**90°C - XHHW wet or dry locations for ampacity adjustment purposes using NEC section 310.16