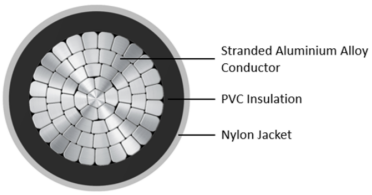
POLYCAB ALUMINIUM THHN/THWN-2
Industrial Cable, UL 83, 600 V AC



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
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 Heat and moisture resistant PVC compound to UL 83
- Jacketed with Nylon (polyamide) or UL listed similar jacket compound to UL 83

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 83

OUTSTANDING FEATURES

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

STANDARD FOLLOWS

UL 83
UL 2556
ASTM B-801

COMPLIANCE

Conductor resistance test	ASTM B-801
Insulation resistance	UL 83
Cold bend test	UL 83
Vertical flame test	UL 83
Smoke emission	UL 83
Fire propagation	UL 83
Halogen acid gas emission	UL 83
Oil resistant (PR II)	UL 83
VW-1, FT1, FT2	UL 83
FT4 and CT Flame rated (for 1/0 AWG and above)	UL 1685

NEC, NFPA 70, 2011 Edition
RoHS and REACH Compliant

OUR ACCREDITATIONS

APPROVAL

LISTED

NOTES

Other colours are available subject to economic order quantity.

POLYCAB ALUMINIUM THHN/THWN-2
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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 Amp.			Maximum DC resistance at 20°C
	AWG or kcmil		mils	mils	Lbs/1000 ft	60°C	75°C	90°C	Ω/km
1	8	7	30	205	27	35	40	45	3.4464
1	6	7	30	241	39	40	50	60	2.1684
1	4	7	40	307	62	55	65	75	1.3633
1	2	7	40	363	90	75	90	100	0.8573
1	1	18	50	431	119	85	100	115	0.6798
1	1/0	18	50	452	143	100	120	135	0.5387
1	2/0	18	50	492	172	115	135	150	0.4275
1	3/0	18	50	539	210	130	155	175	0.3389
1	4/0	18	50	591	257	150	180	205	0.269
1	250	22	60	660	312	170	205	230	0.2277
1	300	35	60	705	364	195	230	260	0.1896
1	350	35	60	751	418	210	250	280	0.1624
1	400	35	60	795	472	225	270	305	0.1424
1	500	35	60	870	572	260	310	350	0.1139
1	600	58	70	981	699	285	340	385	0.0948
1	700	58	70	1048	805	310	375	420	0.0814
1	750	58	70	1080	858	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 – THHN dry location and THWN wet or dry location for ampacity adjustment purposes using NEC section 310.16