



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB Aluminium Type TC XHHW-2 cable is recommended to use in commercial as well as industrial application as power, control, signal, communication and lighting cable. It is suitable to install in cable tray and also in open air, raceway, channel, conduit and duct. Further, it may be installed in direct burial or sunlight exposed area and also in wet or dry location or in area exposed to chemical or oil.

## CHARACTERISTICS

**Voltage Rating**  
 600 V

**Operation Temperature**  
 -25°C to 90°C

## CONSTRUCTION

- Conductor: AA 8000 series Stranded Compacted Aluminium Alloy conductor as per ASTM B 801/ASTM B 800.
- Insulation: Extruded Crosslinked Polyolefin type XHHW-2, as per UL 44
- Grounding Conductor: AA 8000 series Stranded Compacted Aluminium Alloy conductor as per ASTM B 801/ASTM B 800 insulated with green coloured extruded crosslinked polyolefin compound.
- Assembly: Cores are suitably arranged in concentric layers with one ground conductor in which interstices are filled with non-hygroscopic fillers (Polypropylene filler) assembled with a binder tape
- Outer Sheath: Sunlight resistant extruded Polyvinyl Chloride. Colour: Black

### Core Identification

No.	Colour
3	Pink/Purple/Tan
4	Pink/Purple/Grey/Tan
Ground	Green

\*Colour can be customised as per UL

### Bending Radius

12 x Overall Diameter

## OUTSTANDING FEATURES

- Heat resistant
- Sunlight resistant
- Oil resistant
- Chemical resistant
- Flame retardant

## STANDARD FOLLOWS

ASTM B 800  
 ASTM B 801  
 UL 44  
 UL 1277  
 ICEA S-95-658  
 UL 1685  
 CSA C22.2 No. 230

## COMPLIANCE

Conductor resistance test	ASTM B801
Insulation resistance	UL 44
Vertical tray flame test	UL 1685
FT4 Test	UL 1685, IEEE 1202
(For 1/0 AWG and above)	
Oil resistant test (PR I)	UL 1277
RoHS & REACH	

## OUR ACCREDITATIONS



## APPROVAL



# POLY CAB ALUMINIUM TYPE TC XHHW-2 CABLE

## Industrial Cable, 600 V AC

**POLY CAB**  
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Table 1: Dimensional Characteristics

No. of core	Conductor size	Insulation thickness	Ground wire size	Nominal overall diameter	Approximate weight per 1000 ft
	kcmil	mils	AWG/ Kcmil	mils	lbs
3	250	65	1	1800	1589
4	500	65	2/0	2508	3337
3	350	65	4/0	2015	2116
4	500	65	4/0	2551	3452
3	500	65	250	2318	2809
3	500	65	400	2413	3028
3	500	65	4/0	2283	2734

\*Above values are approximate and subject to standard manufacturing tolerance

Table 2: Electrical characteristics

Conductor Size	AWG	*Allowable ampacity (Amp.)			Maximum DC resistance at 20°C Ω/km
		60°C	75°C	90°C	
	1/0	100	120	135	0.550
	2/0	115	135	150	0.436
	3/0	130	155	175	0.346
	4/0	150	180	205	0.274
	250	170	205	230	0.232
	300	195	230	260	0.194
	350	210	250	280	0.166
	400	225	270	305	0.145
	500	260	310	350	0.116

\*Allowable ampacities shown are for general use as specified by the NEC 2011 Edition Section 310.16.

60°C – Relevant for TW and UF Aluminium wires

75°C – Relevant for RHW, THHW, THW, THWN, XHHW, XHWN & USE Aluminium wires

90°C – Relevant for TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, XHWN-2 and XHHN Aluminium wires

Notes:

Section 310.15(B) shall be referenced for ampacity correction factors where the ambient temperature is other than 30°C (86°F).

Section 310.15(C)(1) shall be referenced for more than three current-carrying conductors.

Section 310.16 shall be referenced for conditions of use.