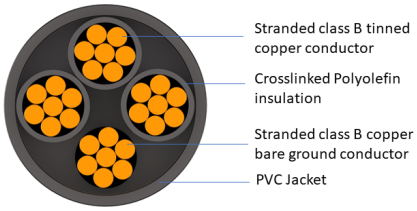
POLYCAB CU TYPE TC/TC-ER XHHW-2 TRAY CABLE
Industrial Cable, 600 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB Copper Type TC/TC-ER XHHW-2 tray 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

- Stranded Class B annealed tinned copper conductor as per ASTM B33 & ASTM B8
- Accompanied with class B annealed bare grounding conductor as per ASTM B3 & ASTM B8
- Insulated with a Flame retardant crosslinked polyolefin, Type XHHW-2 as per UL 44.
- Cores laid up to form a round shape.
- Sunlight resistant PVC jacket rated 90°C wet and dry, as per UL 1277, over the complete assembly. Colour : Black
- Ripcord provided for jacket with thickness of 60mils or less.

Core Identification
Cores are identified as per ICEA S 58-679, Method 4 i.e. Black insulation with printed numbers, beginning with the number 1.

Bending Radius
12 x Overall Diameter

OUTSTANDING FEATURES

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

STANDARD FOLLOWS

ASTM B8,
ASTM B3
ASTM B33
UL 44
UL 1277
ICEA S-95-658
UL 1685
CSA C22.2 No. 230

COMPLIANCE

Conductor resistance test	ASTM B8
Insulation resistance	UL 83
Cold bend test (4 AWG and above)	UL 1277
Vertical tray flame test	UL 1685
FT4 Test UL 1685, (For 1/0 AWG and above)	IEEE 1202
Oil resistant test (PR I)	UL 1277
VW-1(for individual core)	UL 2556
RoHS & REACH	

OUR ACCREDITATIONS

APPROVAL

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Dimensional Characteristics:

No. of core	Conductor size	Insulation thickness	Ground wire size	Nominal overall diameter	Approximate weight
	AWG or kcmil	mils	AWG	mils	Lbs/1000 ft
3	12	30	12	427	142
3	10	30	10	480	199
3	8	45	10	642	317
4	8	45	10	703	400
3	6	45	8	725	447
4	6	45	8	796	567
3	4	45	8	871	655
4	4	45	8	955	836
3	2	45	6	1004	954
4	2	45	6	1104	1224
3	1	55	6	1137	1178
4	1	55	6	1252	1525
3	1/0	55	6	1207	1405
4	1/0	55	6	1332	1824
3	2/0	55	6	1306	1695
4	2/0	55	6	1444	2211
3	3/0	55	4	1417	2103
4	3/0	55	4	1568	2739
3	4/0	55	4	1543	2551
4	4/0	55	4	1769	3450
3	250	65	4	1749	3105
4	250	65	4	1932	4054
3	350	65	3	1977	4166
4	350	65	3	2188	5460
3	500	65	2	2263	5715
4	500	65	2	2508	7518

*Above values are approximate and subject to standard manufacturing tolerance

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Electrical characteristics:

Conductor Size	*Allowable ampacity(Amp.)			Maximum DC resistance at 20°C
AWG	60°C	75°C	90°C	Ω/km
12	20	25	30	5.640
10	30	35	40	3.550
8	40	50	55	2.230
6	55	65	75	1.400
4	70	85	95	0.882
3	85	100	115	0.700
2	95	115	130	0.555
1	110	130	145	0.440
1/0	125	150	170	0.349
2/0	145	175	195	0.277
3/0	165	200	225	0.219
4/0	195	230	260	0.172
250	215	255	290	0.147
300	240	285	320	0.123
350	260	310	350	0.105
400	280	335	380	0.091
500	320	380	430	0.073
600	350	420	475	0.061
700	385	460	520	0.052
750	400	475	535	0.049

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

60°C – Relevant for TW and UF copper wires

75°C – Relevant for RHW, THHW, THW, THWN, XHHW, USE, and ZW copper wires

90°C – Relevant for TBS, SA, SIS, FEP, FEPB, MI, RHH, RHW-2, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, and ZW-2 copper 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.