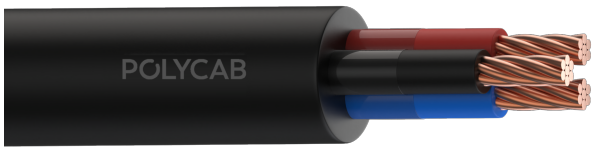
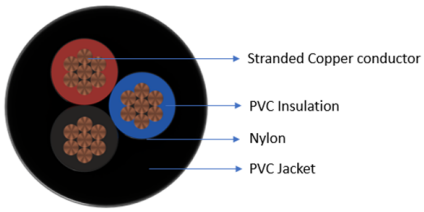
POLYCAB CU TYPE TC/TC-ER THHN/THWN-2 16 AWG TRAY CABLE

Industrial Cable, 600 V AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB Copper Type TC/TC-ER* THHN/THWN-2 tray cable is recommended to use in commercial as well as industrial application as control, lighting and branch circuit. It is suitable to install in cable tray; also in open air, raceway, channel, conduit and duct. Also it is permitted for exposed run use as per NEC for 3 or more conductors. It is suitable for Class 1 Div. 2 industrial hazardous location as per NEC. Further, it may be installed in direct burial or sunlight exposed area and 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 plain copper conductor as per ASTM B3 & ASTM B8
- Insulated with a flame retardant PVC/Nylon, Type THHN/THWN-2 as per UL 83
- Lead free, Flame retardant, Sunlight resistant PVC jacket, rated 90°C wet and dry, over the complete assembly. Colour : Black

Core Identification
As per ICEA E2 colour coding

Bending Radius
12 x Overall Diameter

OUTSTANDING FEATURES

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

STANDARD FOLLOWS

ASTM B8, ASTM B3
UL 83
UL 1277
UL 1685
UL 1581
IEEE 1202
CSA C22.2 No. 230

COMPLIANCE

Conductor resistance test	ASTM B8
Vertical tray flame test	UL 1685
FT4 Test (For 1/0 AWG and above)	UL 1685, IEEE 1202
Oil resistant test (PR I)	UL 1277
RoHS & REACH	

OUR ACCREDITATIONS

APPROVAL

POLYCAB CU TYPE TC/TC-ER THHN/THWN-2 16 AWG TRAY CABLE
Industrial Cable, 600 V AC

POLYCAB
IDEAS. CONNECTED.

Dimensional characteristics:

No. of core	Conductor size	Jacket thickness	Nominal overall diameter	Approximate weight per 1000 ft
	AWG or kcmil	mils	mils	lbs
**2 Flat	16	0.045	0.185 X 0.281	42
2	16	0.045	0.281	52
3	16	0.045	0.296	63
4	16	0.045	0.321	77
5	16	0.045	0.352	88
6	16	0.045	0.380	104
7	16	0.045	0.380	110
9	16	0.045	0.457	139
10	16	0.045	0.476	152
12	16	0.045	0.491	175
15	16	0.06	0.572	233
16	16	0.06	0.572	244
19	16	0.06	0.601	278
20	16	0.06	0.632	293
25	16	0.06	0.696	355
30	16	0.06	0.735	414
37	16	0.06	0.792	501
50	16	0.08	0.961	696

#Above values are approximate and subject to standard manufacturing tolerance
*ER rating is applied for 3 or more conductors
**Flat construction

Electrical characteristics:

Conductor Size	*Allowable ampacity(Amp.)	Maximum DC resistance at 20°C
AWG	90°C	Ω/km
16	18	13.7

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