

Tray Cable UL Type TC / TC-ER – 600V XHHW Insulation – PVC Jacket



APPLICATION:

Primarily used for power, control, signal, communication and lighting circuits in commercial and industrial environments. Suitable for installation in cable trays, supported by messenger in open air, raceways, channels, conduits and ducts. Approved for direct burial applications and outdoors in cable tray where sunlight resistant rating is required. Also may be installed in wet or dry locations or in areas exposed to chemicals and oils.

CONDUCTORS:

- Fully annealed bare copper per ASTM B-3, Class B stranding per ASTM B-8

INSULATION:

- Flame retardant Cross-linked Polyethylene (FR-XLPE) that is heat and moisture resistant. Also has a VW-1 rating and is XHHW-2 per UL 44

ASSEMBLY:

- Conductors are cabled together with or without fillers as required to form a round compact cable core with a binder tape

COLOR CODE:

ICEA S-58-679 Method 1, Table E-2

Cond #	Color	Tracer	Cond #	Color	Tracer	Cond #	Color	Tracer
1	Black	--	13	Blue	Red	25	Yellow	Orange
2	Red	--	14	Orange	Red	26	Brown	Orange
3	Blue	--	15	Yellow	Red	27	Black	Yellow
4	Orange	--	16	Brown	Red	28	Red	Yellow
5	Yellow	--	17	Black	Blue	29	Blue	Yellow
6	Brown	--	18	Red	Blue	30	Orange	Yellow
7	Red	Black	19	Orange	Blue	31	Brown	Yellow
8	Blue	Black	20	Yellow	Blue	32	Black	Brown
9	Orange	Black	21	Brown	Blue	33	Red	Brown
10	Yellow	Black	22	Black	Orange	34	Blue	Brown
11	Brown	Black	23	Red	Orange	35	Orange	Brown
12	Black	Red	24	Blue	Orange	36	Yellow	Brown

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered. Colors repeats after 36 conductors. There are no Green or White conductors or stripes.

JACKET:

- Flame and sunlight resistant black PVC rated 90°C wet or dry per UL 1277

STANDARDS:

- UL Listed as TC-ER (Exposed Run) per UL Standard 1277 and used in accordance with NEC for 3 or more conductors.
- Approved for Class 1 or 2, Division 2 industrial hazardous locations per NEC
- Individual conductors pass UL VW-1 flame test and rated XHHW-2/VW1, UL 1581/UL 2556 VW-1
- Rated at 90°C wet or dry
- Oil Res I & II
- “Heavy Duty” rating per ICEA Standards
- Meets cold bend test at -25°C
- NEMA WC70/ICEA S-95-658, NEMA WC57/ICEA S-73-532
- IEEE 1202 and CSA FT4 70,000 BTU Flame Test
- IEEE 383 70,000 BTU Vertical Flame Test
- ICEA T-29-520 210,000 BTU

OPTIONS:

- ICEA Method 1, Table E-1 Color Code



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Part Number	Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Jacket Thickness		Overall Diameter	Net Weight
	AWG			inches	mm	inches	mm	inches	lbs/1000'
14-02TC-XLP**	14	2	7	0.030	0.76	0.045	1.14	0.235 x 0.370	71
14-03TC-XLP	14	3	7	0.030	0.76	0.045	1.14	0.390	85
14-04TC-XLP	14	4	7	0.030	0.76	0.045	1.14	0.425	105
14-05TC-XLP	14	5	7	0.030	0.76	0.045	1.14	0.465	125
14-07TC-XLP	14	7	7	0.030	0.76	0.045	1.14	0.505	173
14-09TC-XLP	14	9	7	0.030	0.76	0.060	1.52	0.620	241
14-12TC-XLP	14	12	7	0.030	0.76	0.060	1.52	0.680	302
14-19TC-XLP	14	19	7	0.030	0.76	0.080	2.03	0.810	448
14-25TC-XLP	14	25	7	0.030	0.76	0.080	2.03	0.985	631
14-30TC-XLP	14	30	7	0.030	0.76	0.080	2.03	1.040	721
14-37TC-XLP	14	37	7	0.030	0.76	0.080	2.03	1.130	867
12-02TC-XLP **	12	2	7	0.030	0.76	0.045	1.14	0.250 x 0.410	95
12-03TC-XLP	12	3	7	0.030	0.76	0.045	1.14	0.435	135
12-04TC-XLP	12	4	7	0.030	0.76	0.045	1.14	0.475	168
12-05TC-XLP	12	5	7	0.030	0.76	0.060	1.52	0.550	214
12-07TC-XLP	12	7	7	0.030	0.76	0.060	1.52	0.600	290
12-09TC-XLP	12	9	7	0.030	0.76	0.060	1.52	0.690	360
12-12TC-XLP	12	12	7	0.030	0.76	0.060	1.52	0.760	460
12-19TC-XLP	12	19	7	0.030	0.76	0.080	2.03	0.950	663
12-25TC-XLP	12	25	7	0.030	0.76	0.080	2.03	1.080	850
12-30TC-XLP	12	30	7	0.030	0.76	0.080	2.03	1.170	1003
12-37TC-XLP	12	37	7	0.030	0.76	0.080	2.03	1.270	1211
10-02TC-XLP **	10	2	7	0.030	0.76	0.045	1.14	0.275 x 0.460	131
10-03TC-XLP	10	3	7	0.030	0.76	0.045	1.14	0.480	169
10-04TC-XLP	10	4	7	0.030	0.76	0.060	1.52	0.560	231
10-05TC-XLP	10	5	7	0.030	0.76	0.060	1.52	0.615	276
10-07TC-XLP	10	7	7	0.030	0.76	0.060	1.52	0.670	328
10-09TC-XLP	10	9	7	0.030	0.76	0.060	1.52	0.780	465
10-12TC-XLP	10	12	7	0.030	0.76	0.080	2.03	0.900	629
10-19TC-XLP	10	19	7	0.030	0.76	0.080	2.03	1.070	900

All values are nominal and subject to correction

**Flat Construction



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