

# Tray Cable UL Type TC / TC-ER – 600V

## XLPE Insulation – CPE 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 tinned copper Class B compressed strand per ASTM B-33 and 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 Method 1, Table E-2

#### 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 thermoplastic Chlorinated Polyethylene (CPE) rated 90°C wet or dry per UL 1277. Excellent flame resistance that allows the jacket to burn to an ash and does not exhibit the thermoplastic drip characteristic. Ripcord provided for jackets with thickness of 60 mils or less.

### 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 or E-2 Color Code
- Bare Copper
- Shielding



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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/kft
14-02TC-XLPCPE**	14	2	7	0.030	0.76	0.045	1.14	0.356	71
14-03TC-XLPCPE	14	3	7	0.030	0.76	0.045	1.14	0.376	93
14-04TC-XLPCPE	14	4	7	0.030	0.76	0.045	1.14	0.411	116
14-05TC-XLPCPE	14	5	7	0.030	0.76	0.045	1.14	0.449	140
14-07TC-XLPCPE	14	7	7	0.030	0.76	0.045	1.14	0.492	187
14-09TC-XLPCPE	14	9	7	0.030	0.76	0.060	1.52	0.604	255
14-12TC-XLPCPE	14	12	7	0.030	0.76	0.060	1.52	0.678	328
14-19TC-XLPCPE	14	19	7	0.030	0.76	0.080	2.03	0.792	487
14-25TC-XLPCPE	14	25	7	0.030	0.76	0.080	2.03	0.931	663
14-30TC-XLPCPE	14	30	7	0.030	0.76	0.080	2.03	1.004	780
14-37TC-XLPCPE	14	37	7	0.030	0.76	0.080	2.03	1.096	940
12-02TC-XLPCPE**	12	2	7	0.030	0.76	0.045	1.14	0.393	100
12-03TC-XLPCPE	12	3	7	0.030	0.76	0.045	1.14	0.415	130
12-04TC-XLPCPE	12	4	7	0.030	0.76	0.045	1.14	0.454	163
12-05TC-XLPCPE	12	5	7	0.030	0.76	0.045	1.14	0.498	194
12-07TC-XLPCPE	12	7	7	0.030	0.76	0.060	1.52	0.576	274
12-09TC-XLPCPE	12	9	7	0.030	0.76	0.060	1.52	0.669	359
12-12TC-XLPCPE	12	12	7	0.030	0.76	0.060	1.52	0.749	445
12-19TC-XLPCPE	12	19	7	0.030	0.76	0.080	2.03	0.917	709
12-25TC-XLPCPE	12	25	7	0.030	0.76	0.080	2.03	1.028	907
12-30TC-XLPCPE	12	30	7	0.030	0.76	0.080	2.03	1.128	1074
12-37TC-XLPCPE	12	37	7	0.030	0.76	0.080	2.03	1.244	1288
10-02TC-XLPCPE**	10	2	7	0.030	0.76	0.045	1.14	0.443	133
10-03TC-XLPCPE	10	3	7	0.030	0.76	0.045	1.14	0.472	185
10-04TC-XLPCPE	10	4	7	0.030	0.76	0.060	1.52	0.545	252
10-05TC-XLPCPE	10	5	7	0.030	0.76	0.060	1.52	0.595	299
10-07TC-XLPCPE	10	7	7	0.030	0.76	0.060	1.52	0.651	395
10-09TC-XLPCPE	10	9	7	0.030	0.76	0.060	1.52	0.759	510
10-12TC-XLPCPE	10	12	7	0.030	0.76	0.080	2.03	0.892	687
10-19TC-XLPCPE	10	19	7	0.030	0.76	0.080	2.03	1.043	1032

All values are nominal and subject to correction  
 \*\*Not TC-ER rated



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