

# Tray Cable UL Type TC / TC-ER – 600V XLPE Insulation – with Bare Ground – 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 stranded 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

## GROUND:

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

## ASSEMBLY:

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

## COLOR CODE:

- Black insulation with ICEA Method 4 printed numbers

### ICEA S-58-679, Method 4 - All Black Conductors

Cond #	Cond Printing
1	"1-One"
2	"2-Two"
3	"3-Three"
4	"4-Four"
5	"5-Five"

## JACKET:

- Flame and sunlight resistant black thermoplastic Cross-linked Chlorinated Polyethylene (XL-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 mills 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



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Part Number	Conductor Size	No. of Conductors	No. of Strands	Ground Wire Size	Insulation Thickness		Jacket Thickness		Overall Diameter	Net Weight
	AWG			AWG	inches	mm	inches	mm	inches	lbs/1000'
12-03TCG-XLPCPE	12	3	7	12	0.045	1.14	0.060	1.52	0.475	157
10-03TCG-XLPCPE	10	3	7	10	0.045	1.14	0.060	1.52	0.515	236
8-03TCG-XLPCPE	8	3	7	10	0.045	1.14	0.060	1.52	0.626	342
8-04TCG-XLPCPE	8	4	7	10	0.045	1.14	0.060	1.52	0.699	425
6-03TCG-XLPCPE	6	3	7	8	0.045	1.14	0.060	1.52	0.712	482
6-04TCG-XLPCPE	6	4	7	8	0.045	1.14	0.060	1.52	0.802	611
4-03TCG-XLPCPE	4	3	7	8	0.045	1.14	0.060	1.52	0.819	660
4-04TCG-XLPCPE	4	4	7	8	0.045	1.14	0.080	2.03	0.933	877
2-03TCG-XLPCPE	2	3	7	6	0.045	1.14	0.080	2.03	0.993	1,012
2-04TCG-XLPCPE	2	4	7	6	0.045	1.14	0.080	2.03	1.080	1,283
1-03TCG-XLPCPE	1	3	19	6	0.055	1.40	0.080	2.03	1.118	1,276
1-04TCG-XLPCPE	1	4	19	6	0.055	1.40	0.080	2.03	1.235	1,704
1/0-03TCG-XLPCPE	1/0	3	19	6	0.055	1.40	0.080	2.03	1.202	1,538
1/0-04TCG-XLPCPE	1/0	4	19	6	0.055	1.40	0.080	2.03	1.330	1,830
2/0-03TCG-XLPCPE	2/0	3	19	6	0.055	1.40	0.080	2.03	1.273	1,735
2/0-04TCG-XLPCPE	2/0	4	19	6	0.055	1.40	0.080	2.03	1.480	2,226
3/0-03TCG-XLPCPE	3/0	3	19	4	0.055	1.40	0.080	2.03	1.415	2,256
3/0-04TCG-XLPCPE	3/0	4	19	4	0.055	1.40	0.080	2.03	1.570	3,123
4/0-03TCG-XLPCPE	4/0	3	19	4	0.055	1.40	0.080	2.03	1.499	2,678
4/0-04TCG-XLPCPE	4/0	4	19	4	0.055	1.40	0.110	2.79	1.765	3,909
250-03TCG-XLPCPE	250	3	37	4	0.065	1.65	0.110	2.79	1.630	3,073
250-04TCG-XLPCPE	250	4	37	4	0.065	1.65	0.110	2.79	1.935	4,571
350-03TCG-XLPCPE	350	3	37	3	0.065	1.65	0.110	2.79	1.900	4,273
350-04TCG-XLPCPE	350	4	37	3	0.065	1.65	0.110	2.79	2.180	6,068
500-03TCG-XLPCPE	500	3	37	2	0.065	1.65	0.110	2.79	2.170	5,901
500-04TCG-XLPCPE	500	4	37	2	0.065	1.65	0.140	3.56	2.555	7,905

All values are nominal and subject to correction

