

Auto-Flex® TCP

Flexible TC-ER Power Supply/Drop Cable

UL power tray cable / with 2 or 3 PVC/nylon insulated conductors
insulated grounding conductor / PVC jacket / 600V



OVERVIEW

Multi-conductor, 600 volt, UL Type Tray Cable / CSA TC with flexible strand copper, polyvinyl chloride (PVC) insulated and nylon jacketed circuit and grounding conductors, with a specially formulated overall polyvinyl chloride (PVC) jacket. The cable is suitable for use in cable trays, aerial installations and as a power feed drop.

SPECIFICATIONS / RATINGS

- UL Standard 83 and 1277
- ICEA S-95-658 (NEMA WC-70)
- CSA C22.2 No. 75
- TC-ER
- c(UL) T90 NYLON TC FT4
- Type WTTC 1000V



DESIGN PARAMETERS

Conductors:

Flexible strand for easy installation. Class K or I stranded, soft drawn, bare copper per ASTM B 3 and ASTM B 172.

Insulation:

Heat and moisture resistant, polyvinyl chloride meeting the requirements of CSA C22.2 No. 75, ICEA S-95-658 (NEMA WC 70) and UL 83 for Type THHN and THWN wires. Insulation is acceptable for use in locations at 90°C dry and 75°C wet. Insulation thickness is in accordance with Table 10 of UL 83.

Conductor Covering:

Nylon covering applied directly to the surface of the PVC insulation. Meets the requirements of CSA C22.2 No. 75, ICEA S-95-658 (NEMA WC 70) and UL 83. The thickness is in accordance with Table 13 of UL 83.

Circuit Identification:

Two circuit and one ground version – black, red and green. Three circuit and one ground version – black, red, blue and green.

Assembly:

Insulated circuit and grounding conductors are cabled together with nonhygroscopic fillers as needed. Core is wrapped with Mylar binder tape.

Overall Jacket:

Heat and moisture resistant, black, specially formulated polyvinyl chloride meeting the requirements of CSA C22.2 No. 75, ICEA S-95-658 (NEMA WC 70) and UL 1277. Thickness in accordance with Table 11.3 of UL 1277.

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Part Number	Conductor Number/Size	Ground Size AWG	Allowable Ampacity* @ 75°C (amps)	Allowable Ampacity* @ 90°C (amps)	Average Jacket Thickness in (mm)	Nominal Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
340568	3 / 6 AWG	8 AWG	65	75	.080 (2.0)	0.880 (22.4)	539 (802)
340567	3 / 4 AWG	8 AWG	85	95	.080 (2.0)	1.025 (26.0)	755 (1123)
340566	2 / 4 AWG	8 AWG	85	95	.080 (2.0)	0.930 (23.6)	540 (804)
340570	3 / 2 AWG	2 AWG	115	130	.080 (2.0)	1.245 (31.6)	1250 (1860)
340585	3 / 2 AWG	6 AWG	115	130	.080 (2.0)	1.245 (31.6)	1052 (1565)
340565	2 / 2 AWG	2 AWG	115	130	.080 (2.0)	1.125 (28.6)	955 (1421)
340586	2 / 2 AWG	6 AWG	115	130	.080 (2.0)	1.125 (28.6)	955 (1421)
340564	3 / 2/0 kcmil	2 AWG	175	195	.080 (2.0)	1.620 (41.1)	2063 (3070)
340584	3 / 2/0 kcmil	6 AWG	175	195	.080 (2.0)	1.530 (38.9)	1951 (2903)
340569	2 / 2/0 kcmil	2 AWG	175	195	.080 (2.0)	1.400 (35.6)	1463 (2177)
340563	3 / 4/0 kcmil	2 AWG	230	260	.110 (2.8)	1.925 (48.9)	3114 (4634)
340588	3 / 4/0 kcmil	4 AWG	230	260	.110 (2.8)	1.925 (48.9)	3026 (4503)
340562	2 / 4/0 kcmil	2 AWG	230	260	.110 (2.8)	1.680 (42.7)	2343 (3486)
340589	2 / 4/0 kcmil	4 AWG	230	260	.110 (2.8)	1.800 (45.2)	2090 (3110)
340580	3 / 250 kcmil	2 AWG	255	290	.110 (2.8)	2.050 (52.1)	3451 (5135)
340579	3 / 373 kcmil	2 AWG	321**	363**	.110 (2.8)	2.260 (57.4)	4932 (7334)
340560	3 / 400 kcmil	2 AWG	335	380	.110 (2.8)	2.545 (64.6)	5264 (7832)
TBD	3 / 500 kcmil	2 AWG	380	430	.110 (2.8)	2.700 (68.6)	6350 (9449)
TBD	3 / 600 kcmil	2 AWG	420	475	.140 (3.6)	3.020 (76.7)	7500 (11,160)

* Ampacities are based on Table 310.16 of the National Electrical Code (NFPA 70 - 2023) for no more than 3 current carrying conductors at 30C ambient

** Ampacities based on calculated value for conductor size not covered by NEC Table 310.16

Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications

