

TC-Flex™ Tray Cable 14 AWG (2,5 mm²) – 10 AWG (6,0 mm²)

UL Type WTTTC 1000 V or Type TC-ER 600 V or Type MTW and c(UL) CIC/TC 600 V FT4 or CSA AWM 90°C 1000 V, Flexible, Oil Res I/II, Sunlight- and Torsion-Resistant, Flame-Retardant, -40°C to +90°C

Product Construction:

Conductors:

- 14 AWG (2,5 mm²) thru 10 AWG (6,0 mm²) fully annealed flexible stranded bare copper with Class 5 stranding per EN 60228 (IEC 60228)

Insulation:

- Polyvinyl Chloride (PVC) insulation with Polyamide (nylon) jacket per UL 83

Conductor Identification:

- Conductors are black with printed numbers and green/yellow grounding conductor

Cable Assembly:

- Conductors cabled with non-hygroscopic fillers to make the cable suitably round

Jacket:

- Black, flexible, flame-retardant, sunlight- and oil-resistant Polyvinyl Chloride (PVC) jacket

Print:

- GENERAL CABLE® TC-FLEX™ XX/C XXAWG (XXMM²) (UL) TC-ER TYPE THHN/THWN 90°C DRY 75°C WET 600 V SUN RES DIR BUR OIL RES I/II OR MTW OR WTTTC 1000 V 90°C DRY c(UL) CIC/TC PVC/N 90°C FT4 --- CSA AWM I/II A/B 90°C 1000 V – ROHS CE – MADE IN USA DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARKER

Minimum Bending Radius:

- 4x O.D. for fixed installation
- 8x O.D. for flexing applications

Torsion:

- 10,000 cycles at -40°C, +/- 150° twist per meter, cable weight compensated to 20 meters

Applications:

- In free air, raceways or direct burial
- (UL) WTTTC cables for use up to 1000 V in wind turbine generator applications in accordance with UL Subject 6140
- (UL) TC-ER cables for use up to 600 V as power and control cables in accordance with NEC® Article 336
- (UL) MTW cables for machine tool and wire up to 600 V as power and control cables in accordance with UL 1063
- (CSA) CIC/TC cables for use up to 600 V in cable trays and other applications when installed in accordance with the Canadian Electrical Code, Part I
- (CSA) AWM cables for use up to 1000 V as equipment wiring in accordance with the Canadian Electrical Code, Part I

Specifications:

Design Adherence:

- UL 66 & UL 83/CSA C22.2 No. 75-08 Thermoplastic Insulated Wires
- UL 1063/MTW Machine Tool Wire
- UL 1277 Power and Control Tray Cables
- UL 2277 Wind Turbine Tray Cables
- CSA C22.2 No. 230-09 Tray Cables
- CSA C22.2 No. 239-09 Control and Instrumentation Cables
- CSA C22.2 No. 210-11 Appliance Wiring Material Products

Flame Tests:

- IEEE 1202/CSA FT4

Compliances:

- Type TC-ER 90°C Dry, 75°C Wet, 600 V
- Type MTW
- Type WTTTC 90°C, 1000 V
- Type CIC/TC 90°C, 600 V
- Type AWM I/II A/B, 90°C, 1000 V FT4
- RoHS Compliant



CATALOG NUMBER	NO. OF COND. INC. GRND.	NOM. INS. THICKNESS		NOM. JACKET THICKNESS		NOM. CABLE O.D.		NOM. COPPER WEIGHT		NOM. CABLE WEIGHT		90°C AMP. @ 30°C AMBIENT ¹
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	

14 AWG (2,50 mm²) 46 Strands

4780.03014	3	0.021	0.53	0.048	1.22	0.375	9.5	43	65	85	126	18
4780.04014	4	0.021	0.53	0.048	1.22	0.408	10.4	58	86	106	158	18
4780.05014	5	0.021	0.53	0.048	1.22	0.442	11.2	72	108	128	190	18
4780.07014	7	0.021	0.53	0.048	1.22	0.502	12.8	101	151	170	253	18
4780.09014*	9	0.021	0.53	0.063	1.60	0.583	14.8	130	194	226	336	16
4780.12014*	12	0.021	0.53	0.063	1.60	0.647	16.4	174	259	289	429	16
4780.19014*	19	0.021	0.53	0.063	1.60	0.774	19.7	275	410	432	642	12
4780.25014*	25	0.021	0.53	0.085	2.16	0.915	23.2	362	539	587	874	12
4780.30014*	30	0.021	0.53	0.085	2.16	0.965	24.5	435	647	686	1,021	10
4780.37014*	37	0.021	0.53	0.085	2.16	1.036	26.3	536	798	826	1,229	10

12 AWG (4,0 mm²) 56 Strands

4780.03012	3	0.021	0.53	0.048	1.22	0.435	11.1	72	108	123	183	25
4780.04012	4	0.021	0.53	0.048	1.22	0.476	12.1	97	144	155	231	25
4780.05012	5	0.021	0.53	0.048	1.22	0.517	13.1	121	180	188	280	25
4780.07012*	7	0.021	0.53	0.063	1.60	0.622	15.8	169	252	269	401	25
4780.09012*	9	0.021	0.53	0.063	1.60	0.684	17.4	217	323	335	498	20
4780.12012*	12	0.021	0.53	0.063	1.60	0.763	19.4	290	431	431	642	20
4780.19012*	19	0.021	0.53	0.085	2.16	0.964	24.5	459	683	689	1,025	17
4780.25012*	25	0.021	0.53	0.095	2.41	1.103	28.0	604	898	901	1,341	17
4780.30012*	30	0.021	0.53	0.095	2.41	1.164	29.6	724	1,078	1,057	1,572	14
4780.37012*	37	0.021	0.53	0.095	2.41	1.252	31.8	893	1,329	1,275	1,897	14

10 AWG (6,0 mm²) 82 Strands

4780.03010	3	0.027	0.69	0.048	1.22	0.491	12.5	109	162	172	256	35
4780.04010	4	0.027	0.69	0.063	1.60	0.567	14.4	146	217	234	348	35
4780.05010	5	0.027	0.69	0.063	1.60	0.618	15.7	182	271	284	422	35
4780.07010*	7	0.027	0.69	0.063	1.60	0.705	17.9	255	379	381	568	35
4780.09010*	9	0.027	0.69	0.063	1.60	0.779	19.8	327	487	477	710	30
4780.12010*	12	0.027	0.69	0.085	2.16	0.915	23.2	437	650	654	973	30
4780.19010*	19	0.027	0.69	0.095	2.41	1.119	28.4	691	1,029	1,007	1,499	25
4780.25010*	25	0.027	0.69	0.095	2.41	1.259	32.0	910	1,354	1,293	1,925	20
4780.30010*	30	0.027	0.69	0.095	2.41	1.331	33.8	1,092	1,625	1,524	2,268	20

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Ampacities provided are for open cable runs, in a raceway, directly buried, or as aerial cable supported on a messenger in accordance with NEC® Articles 336.80 and 392.11, Table 310.16 and are derated in accordance with NEC® 310.15.B.2.