

TC-Flex™ Tray Cable 18 AWG (1,0 mm²) – 16 AWG (1,5 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



Applications (cont'd.):

- (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

Product Construction:

Conductors:

- 18 AWG (1,0 mm²) and 16 AWG (1,5 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 TFFN 90°C DRY 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

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	
18 AWG (1,0 mm²) 19 Strands												
4775.03018	3	0.021	0.53	0.048	1.22	0.313	7.9	18	26	50	74	8
4775.04018	4	0.021	0.53	0.048	1.22	0.338	8.6	23	35	61	90	8
4775.05018	5	0.021	0.53	0.048	1.22	0.363	9.2	29	43	72	107	8
4775.07018	7	0.021	0.53	0.048	1.22	0.409	10.4	41	61	93	138	8
4775.09018*	9	0.021	0.53	0.048	1.22	0.448	11.4	53	78	114	169	7
4775.12018	12	0.021	0.53	0.048	1.22	0.497	12.6	70	104	144	214	7
4775.16018	16	0.021	0.53	0.063	1.60	0.578	14.7	94	139	197	294	6
4775.19018	19	0.021	0.53	0.063	1.60	0.623	15.8	111	165	229	340	6
4775.25018*	25	0.021	0.53	0.063	1.60	0.697	17.7	146	217	289	429	6
4775.30018*	30	0.021	0.53	0.063	1.60	0.735	18.7	175	261	336	500	5
4775.37018*	37	0.021	0.53	0.063	1.60	0.789	20.0	216	322	402	598	5
16 AWG (1,5 mm²) 28 Strands												
4775.03016	3	0.021	0.53	0.048	1.22	0.339	8.6	26	39	63	93	10
4775.04016	4	0.021	0.53	0.048	1.22	0.367	9.3	35	52	77	115	10
4775.05016	5	0.021	0.53	0.048	1.22	0.396	10.1	44	66	92	137	10
4775.07016	7	0.021	0.53	0.048	1.22	0.448	11.4	62	92	121	179	10
4775.09016*	9	0.021	0.53	0.048	1.22	0.491	12.5	79	118	149	221	9
4775.12016	12	0.021	0.53	0.063	1.60	0.577	14.6	106	157	204	304	9
4775.16016	16	0.021	0.53	0.063	1.60	0.634	16.1	141	210	259	385	7
4775.19016	19	0.021	0.53	0.063	1.60	0.686	17.4	167	249	301	448	7
4775.25016	25	0.021	0.53	0.063	1.60	0.769	19.5	220	328	383	570	7
4775.30016*	30	0.021	0.53	0.063	1.60	0.812	20.6	264	393	448	666	6
4775.37016*	37	0.021	0.53	0.085	2.16	0.917	23.3	326	485	573	853	6

* 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.

