

TC-Flex™ Shielded 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 Flame-Retardant, -40°C to +90°C



Applications (cont'd.):

- (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

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 cable suitably round

Shield:

- Aluminum/Mylar foil shield providing 100% coverage combined with a tinned copper braid with 85% nom. coverage

Jacket:

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

Print:

- GENERAL CABLE® TC-FLEX™ XX/C XXAWG (XXMM²) SHIELDED (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

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

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												
4785.03018*	3	0.021	0.53	0.048	1.22	0.334	8.5	30	44	63	93	8
4785.04018	4	0.021	0.53	0.048	1.22	0.359	9.1	41	62	79	118	8
4785.05018*	5	0.021	0.53	0.048	1.22	0.384	9.8	49	72	92	136	8
4785.07018*	7	0.021	0.53	0.048	1.22	0.430	10.9	64	95	116	173	8
4785.09018*	9	0.021	0.53	0.048	1.22	0.469	11.9	79	117	140	208	7
4785.12018*	12	0.021	0.53	0.048	1.22	0.518	13.2	100	149	174	258	7
4785.19018*	19	0.021	0.53	0.063	1.60	0.644	16.4	148	221	266	395	6
4785.25018*	25	0.021	0.53	0.063	1.60	0.718	18.2	189	281	331	492	6
4785.30018*	30	0.021	0.53	0.063	1.60	0.756	19.2	221	329	381	567	5
4785.37018*	37	0.021	0.53	0.063	1.60	0.810	20.6	268	399	453	674	5
16 AWG (1,5 mm²) 28 Strands												
4785.03016*	3	0.021	0.53	0.048	1.22	0.360	9.1	44	66	81	121	10
4785.04016	4	0.021	0.53	0.048	1.22	0.388	9.8	56	83	98	146	10
4785.05016*	5	0.021	0.53	0.048	1.22	0.417	10.6	66	99	114	170	10
4785.07016*	7	0.021	0.53	0.048	1.22	0.469	11.9	88	131	147	218	10
4785.09016*	9	0.021	0.53	0.048	1.22	0.512	13.0	109	162	178	265	9
4785.12016*	12	0.021	0.53	0.063	1.60	0.598	15.2	139	207	238	354	9
4785.19016*	19	0.021	0.53	0.063	1.60	0.707	18.0	210	312	343	510	7
4785.25016*	25	0.021	0.53	0.063	1.60	0.790	20.1	269	401	431	641	7
4785.30016*	30	0.021	0.53	0.085	2.16	0.877	22.3	318	473	533	793	6
4785.37016*	37	0.021	0.53	0.085	2.16	0.938	23.8	385	573	632	940	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.

