

# FLEX-TC

UL/CSA/CE, PVC, Oil-Resistant, 600/1Kv



**FLEX-TC** is a flexible, oil-resistant, UV-resistant industrial grade tray power cable rated 600/1000V for all machinery in tool and plant construction. It is recommended for under-ground installation and open, unprotected installation from the cable tray to the machine and in industrial plants. Suitable in dry, damp and wet environments.

**Construction:**

- Bare copper conductor, fine wire stranded with AWG dimensions
- Special PVC core insulation with transparent nylon skin
- Black cores with continuous white numbering
- Green-yellow ground wire in the outer layer (only products with 3 conductors or more)
- Cores stranded in layers with optimal lay-lengths
- Specially formulated TPE outer jacket
- Jacket color – black (RAL 9005)
- Sequential footage marking
- Extremely oil-resistant
- UV-resistant

**Technical:**

- PVC power cable according to UL Standard 1277
- Flexing temp: -25° C to +105° C
- Static temp: -40° C to +105° C
- Bending radius: 4 x Ø
- Working voltage: 600/1000 volts
- Test voltage: 2000 volts

**Approvals:**

- UL NFPA 79, TC-ER, Class 1 Div. 2 per NEC Art. 501, DP-1, MTW, 90° Dry / 75° Wet, WTTC 1000V, Crush impact test in accordance with UL 1277, Oil Res I/II
- CSA AWM I/II A/B FT4, c(UL) CIC-TC FT4
- CE Low Voltage Directive 2014/35/EU
- RoHS Compliant

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
<b>18 AWG (1,000mm<sup>2</sup>)</b>					
1561802	2	0.287"	7.3mm	12	46
1561803	3	0.297"	7.5mm	20	57
1561804	4	0.320"	8.1mm	26	66
1561805	5	0.346"	8.8mm	33	77
1561807	7	0.373"	9.5mm	46	99
1561809	9	0.429"	10.9mm	59	112
1561812	12	0.477"	12.1mm	79	172
1561818	18	0.587"	14.9mm	118	245
1561825	25	0.664"	16.9mm	164	322
1561834	34	0.776"	19.7mm	211	419
1561841	41	0.827"	21.0mm	254	499
1561850	50	0.939"	23.9mm	303	646
<b>16 AWG (1,500mm<sup>2</sup>)</b>					
1561602	2	0.307"	7.8mm	17	54
1561603	3	0.325"	8.3mm	29	68
1561604	4	0.351"	8.9mm	39	84
1561605	5	0.381"	9.7mm	49	99
1561607	7	0.412"	10.5mm	68	128
1561608	8	0.444"	11.3mm	78	137
1561609	9	0.476"	12.1mm	88	172
1561612	12	0.565"	14.4mm	117	220
1561616	16	0.621"	15.8mm	155	271
1561618	18	0.652"	16.6mm	175	289
1561625	25	0.741"	18.8mm	242	397
1561634	34	0.904"	23.0mm	296	540
1561641	41	0.986"	25.0mm	357	626
1561650	50	1.048"	26.6mm	436	760
<b>14 AWG (2,500mm<sup>2</sup>)</b>					
1561403	3	0.362"	9.2mm	49	88
1561404	4	0.392"	10.0mm	65	106
1561405	5	0.427"	10.8mm	81	128
1561407	7	0.463"	11.8mm	113	170
1561409	9	0.571"	14.5mm	146	225
1561412	12	0.636"	16.2mm	194	309
1561418	18	0.737"	18.7mm	290	439



Sizes continued on next page

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**FLEX-TC Sizes Continued. ( 14, 12, 10, 8, 6, 4, 2 & 1 AWG )**

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1561425	25	0.886"	22.5mm	404	586
<b>12 AWG (4,00mm<sup>2</sup>)</b>					
1561203	3	0.423"	10.7mm	78	126
1561204	4	0.460"	11.7mm	104	152
1561205	5	0.503"	12.8mm	129	187
1561207	7	0.581"	14.8mm	181	258
1561209	9	0.646"	16.4mm	192	319
1561212	12	0.720"	18.3mm	256	411
1561216	16	0.780"	19.8mm	341	525
1561219	19	0.878"	22.3mm	405	616
<b>10 AWG (6,00mm<sup>2</sup>)</b>					
1561002	2	0.480"	12.2mm	68	143
1561003	3	0.498"	12.6mm	117	218
1561004	4	0.578"	14.7mm	155	264
1561005	5	0.631"	16.0mm	194	317
1561007	7	0.686"	17.4mm	271	445
<b>8 AWG (10,0mm<sup>2</sup>)</b>					
1560804	4	0.703"	17.9mm	258	384
<b>8 AWG (10,00mm<sup>2</sup>)</b>					
1560805	5	0.772"	19.6mm	323	578
<b>6 AWG (16,0mm<sup>2</sup>)</b>					
1560603	3	0.776"	19.7mm	310	454
1560604	4	0.899"	22.8mm	413	580
1560605	5	0.982"	24.9mm	517	725
<b>4 AWG (21,0mm<sup>2</sup>)</b>					
1560403	3	0.999"	25.3mm	386	919
1560404	4	1.094"	27.8mm	544	952
1560405	5	1.177"	29.9mm	683	1094
<b>2 AWG (33,7mm<sup>2</sup>)</b>					
1560203	3	1.155"	29.3mm	658	1085
1560204	4	1.272"	32.3mm	859	1320
1560205	5	1.362"	34.6mm	1082	1583
<b>1 AWG (42,3mm<sup>2</sup>)</b>					
1560104	4	1.400"	35.6mm	1065	1563



Sizes continued on next page

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**FLEX-TC Sizes Continued. ( 4/0 AWG & Larger )**

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
<b>4/0 AWG (106,7mm<sup>2</sup>)</b>					
1564104	4	2.059"	52.3mm	2695	3597
<b>3/0 AWG (84,4mm<sup>2</sup>)</b>					
1563104	4	1.695"	43.1mm	2185	3020
<b>2/0 AWG (67.3mm<sup>2</sup>)</b>					
1562104	4	1.674"	42.5mm	1720	2369
<b>1/0 AWG (52,9mm<sup>2</sup>)</b>					
1561104	4	1.466"	37.2mm	1302	1920
<b>500 MCM (257,6mm<sup>2</sup>)</b>					
1565004	4	2.902"	73.7mm	6410	8233
<b>350 MCM (181,9mm<sup>2</sup>)</b>					
1563504	4	2.501"	63.5mm	4542	6004
<b>250 MCM (128,4mm<sup>2</sup>)</b>					
1562504	4	2.167"	55.0mm	3211	4221

