

LTR	DESCRIPTION	DATE	BY
-	Released	8/05/92	DAP
G	Updated dimensions	4/17/06	JCL

I. CONSTRUCTION

center conductor:	Silver Plated Copper Clad Steel	.0201" ± .0003
dielectric:	Extruded Solid Polytetrafluoroethylene	.0645" ± .001
1 st shield:	Silver Plated Copper Tape Wrap (100% coverage)	.071" ± .002
2 nd shield:	40 GA Silver Plated Copper Braid	.085" +.001-.002
jacket:	Blue Fluorinated Ethylene Propylene (FEP)	.103" ± .002

II. ENVIRONMENTAL and MECHANICAL PROPERTIES

weight: 15 pounds per 1000 feet
 operating temperature: -65°C to +125°C
 minimum bend radius: .125 inch (one time install bend); .500 inch (repeated bending)

III. ELECTRICAL PROPERTIES

impedance: 50 +/- 2 ohms
 capacitance: 29.3 pF per foot
 velocity: 69.5%
 shielding: > 100 dB/foot
 attenuation (max) dB/100 feet

Frequency	Tflex-405	M17/133-RG405	M17/113-RG316
400 MHz	14.0	13.5	21.0
500 MHz	16.0	15.0	-
1 GHz	23.0	22.0	36.0
3 GHz	39.0	37.0	58.0
5 GHz	51.5	50.0	-
10 GHz	76.0	80.0	-
18 GHz	106.0	123.0	-


IV. NOTES

- 1) All tests performed in accordance with MIL-C-17 (current issue).
- 2) Tflex-405 cable has been designed as a direct replacement for M17/133-RG405, and is terminated with the same standard solder-on SMA connectors as M17/133-RG405.
- 3) Tflex-405 can also be used as a replacement for M17/113-RG113 or M17/152-00001, single and double shielded (respectively) flexible coax.
- 4) The shielding effectiveness of Tflex-405, as well as M17/133-RG405, is below the sensitivity limit of most test equipment. While Tflex-405 has excellent shielding characteristics, the solid copper outer conductor of M17/133-RG-405 may be a little better below 10 MHz.
- 5) Tflex-405 cable can be used up to 61 GHz. However, the attenuation is not tested or controlled above 18 GHz. The nominal attenuation expected above 18 GHz can be found by using the Calculator on the TMS web site (www.timesmicrowave.com).

Unless otherwise specified, dimensions are in inches. Tolerances are applicable when specified.

These drawings and specifications contain proprietary information which is the property of Times Microwave Systems.

Approvals		
Drawn	DAP	8/05/92



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Tflex-405

Size A	CAGE CODE 68999	Drawing No.: AA-7741
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51670	Scale: NA	Rev. (G)
		Sheet: 1 of 1