TFlex[®]

- Low Loss Microwave Interconnect
- Wireless Base Station Interconnect

Flexible alternative to Semirigid Coax



TFlex employs a thin helical wrap of silver plated copper tape and overall braid sized such that standard solder-on connectors can be used.

TFlex was developed 10 years ago and have been widely adopted by the commercial and military OEM's.

Some of the key characteristics of TFlex are:

Passive Intermod – typically > -150dBc (2x 20 watt carriers)

Shielding Effectiveness – comparable to standard semirigid and like semirigid is beyond measurable limits.

Small/Lightweight – same size but lighter weight than standard CL semirigid coax.

Phase Stable – the helical tape outer conductor minimizes electrical length change with temperature to yield substantial improvement over equivalent size flexible cables. Low Loss – can achieve loss comparable to standard CL semirigid coax.

Attenuation Stability – silver plated outer conductor prevents oxidation of the conductors thereby minimizing attenuation change vs time.

Power Handling – comparable to standard CL semirigid.

Corrosion Resistance – jacketing of the cable with FEP provides excellent protection when cable is deployed in a corrosive environment.

Formability – the flexible nature of TFlex eliminates the need for hand or precision machine bending. TFlex is preterminated in it's approximate desired length and just 'plugged in' using the most convenient/desirable routing.

Connectors (solder-on) – are available from a variety of sources to fit standard Coppersol CL and TFlex.

TMS Number	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Weight Ibs/foot (kg/m)	Impedance ohms Vp(%)	Capacitance pF/foot (pF/m)	Max Oper. Voltage vrms	Temperature Range F (C)	e Shielding Effectivenes (dB)	Minimum s Bend Rad. (in)	Frequency Range Attenuation
TFlex-405	SCCS 0.0201	PTFE S 0.064	C tape+braid 0.085	Blue FEP 0.104	0.015	50 +/- 1	29.3	1,500	-85 +257	>100	0.125	.05 to 18 GHz 106 dB/100'
	(0.51)	(1.63)	(2.16)	(2.64)	(0.022)	69.5	(96.1)		(-65 +125)			@ 18 Ghz
TFlex-402	SC 0.036	PTFÉ S 0.118	SC tape+braid 0.141	Blue FÉP 0.160	0.033	50 +/- 1	29.3	1,900	-85 +257	>100	0.200	.05 to 18 GHz 66 dB/100'
	(0.91)	(3.00)	(3.58)	(4.06)	(0.049)	69.5	(96.1)		(-65 +125)			@ 18 Ghz
TFlex-401	SC 0.0641	PTFE S 0.208	SC tape+braid 0.249	Blue FEP 0.270	0.095	50 +/- 1	29.3	3,000	-85 +257	>100	1.250	.05 to 18 GHz 50 dB/100'
	(1.63)	(5.28)	(6.32)	(6.9)	(0.142)	69.5	(96.1)		(-65 +125)			@ 18 Ghz

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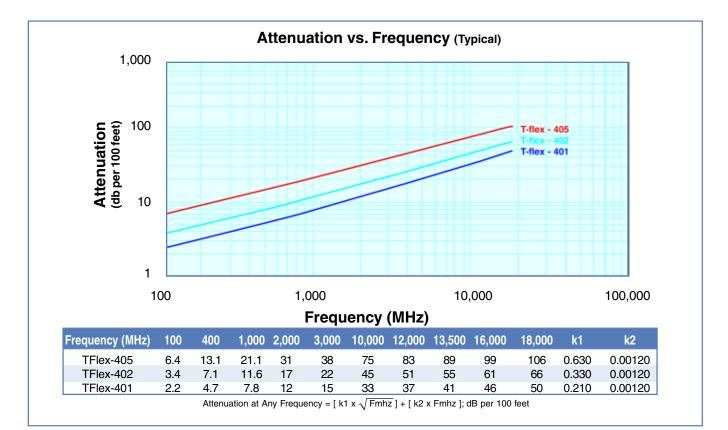
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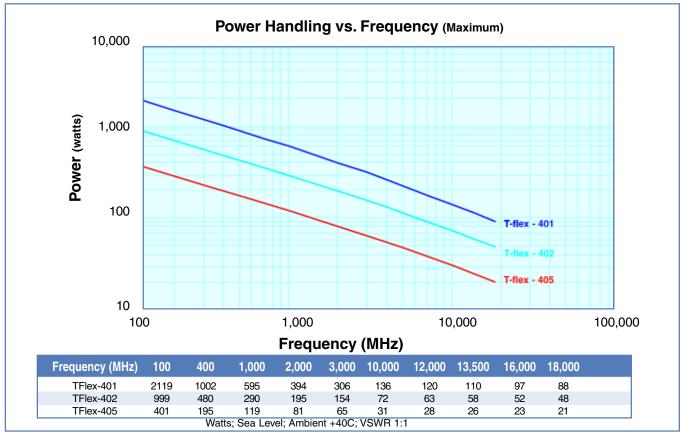
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Low Passive Intermod

All Semirigid Coax Applications

Phase Stable





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