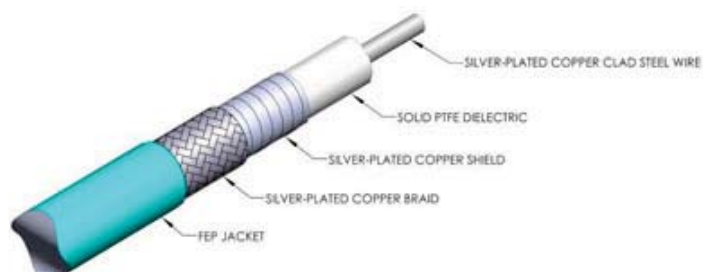


HFE160D

M-FLEX Microwave Coaxial Cables are a family of flexible cables designed to accept connectors designed for semi-rigid cable. Unlike other single or double braided "RG" type flexible cables, M-FLEX cables are true microwave cables capable of operating to frequencies of 18 GHz.



MATERIALS

HFE160D

Cable Part Number	HFE160D	
Center Conductor Material	SPCW	
Dielectric Material	Solid PTFE	
Inner Shield Material	SPC	
Outer Shield Material	SPC	
Jacket Material	FEP	

MECHANICAL CHARACTERISTICS

Outer Diameter	In	0.160
	mm	4.06
Center Conductor Type		Solid
Weight	g / ft	13.2
	g / m	43.1
Minimum Bend Radius	In	1.00
	mm	25.40

ENVIRONMENTAL CHARACTERISTICS

Temperature Range (Deg C)		-65/+165
Radiation (Mrads)		30.0

ELECTRICAL CHARACTERISTICS

Impedance (ohms)		50
Frequency Range (GHz)		DC - 18
Velocity of Propagation		71%
Capacitance	pF / ft	28.7
	pF / m	94.2
Shielding Effectiveness (dB @ 1 GHz)		>100
Maximum Insertion Loss (dB / ft)	1 GHz	0.12
	10 GHz	0.42
	18 GHz	0.61
	26.5 GHz	N/A
	40 GHz	N/A
	50 GHz	N/A
Maximum Insertion Loss (dB / m)	65 GHz	N/A
	1 GHz	0.39
	10 GHz	1.48
	18 GHz	2.13
	26.5 GHz	N/A
	40 GHz	N/A
Phase Stability vs. Flexure (10 GHz)	50 GHz	N/A
	65 GHz	N/A
	Degrees	3.0
Phase Stability vs. Flexure (18 GHz)	Degrees	5.0