

CABLE SPECIFICATION

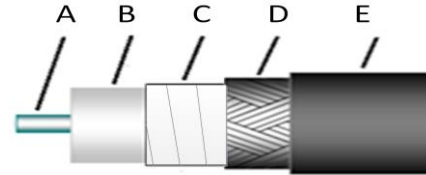
WaveFlex 290



DATA SHEET

Revision: - 1/1/21

WaveFlex 290 offers the lowest loss flexible cable to 18GHz. This cable is ideal for applications where low loss or high power is a concern.



Electrical Data

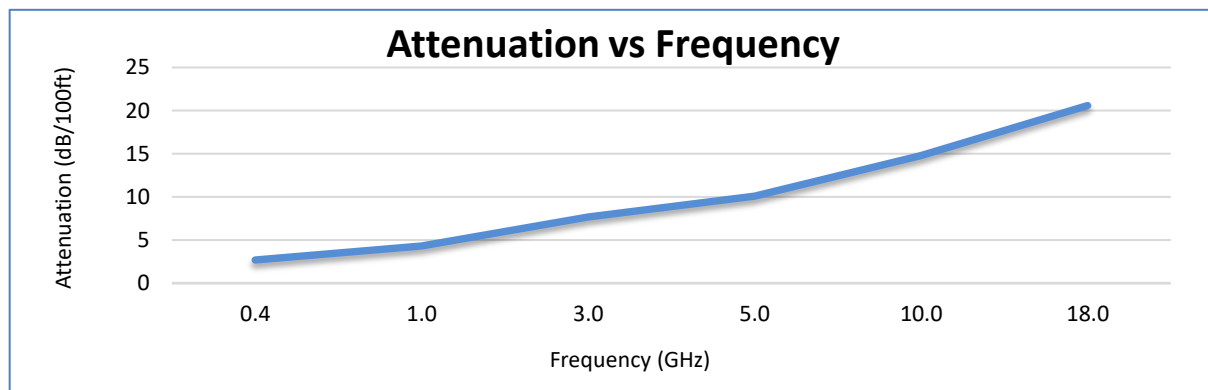
Frequency, Max (GHz)	18.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	85		
Shielding Effectiveness, 18 GHz (dB/ft)	>-90dB		
Capacitance (pF/ft)	23.5		
Delay (ns/ft), (ns/meter)	1.21	3.9729921	
Attenuation k1 (db/100ft) @ 23 deg C	0.131		Attenuation (Typical) at any Frequency
Attenuation k2 (db/100ft) @ 23 deg C	0.0001674		=k1 x SqRt (FMHz) + k2 x (FMHz)

Mechanical/Environmental Data

Weight (lbs/100ft), (Kg/100m)	7.40	11.12	
Temperature Range ($^{\circ}$ C)	-55 to +200		
Minimum Bend Radius (inch), (mm)	1.50	38.10	

Construction Data

Inner Conductor (inch)	A		0.089	Solid SPC
Dielectric (inch)	B		-	EPTFE
First Outer Shield (inch)	C		-	Flat SPC Wrap
Second Outer Shield (inch)	D		-	Round Braid SPC
Jacket (inch O.D.)	E		0.290	Blue Tint FEP



Frequency GHz	0.4	1.0	3.0	5.0	10.0	18.0
Typical Loss dB/100ft	2.7	4.3	7.7	10.1	14.8	20.6