

CABLE SPECIFICATION

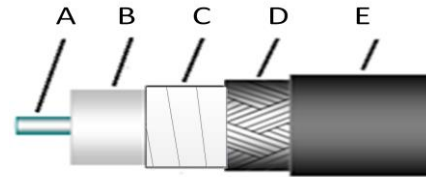
WaveFlex 402



DATA SHEET

Revision: - 1/1/21

WaveFlex 402 is a low cost solid PTFE cable that offers high frequency performance up to 31GHz.



Electrical Data

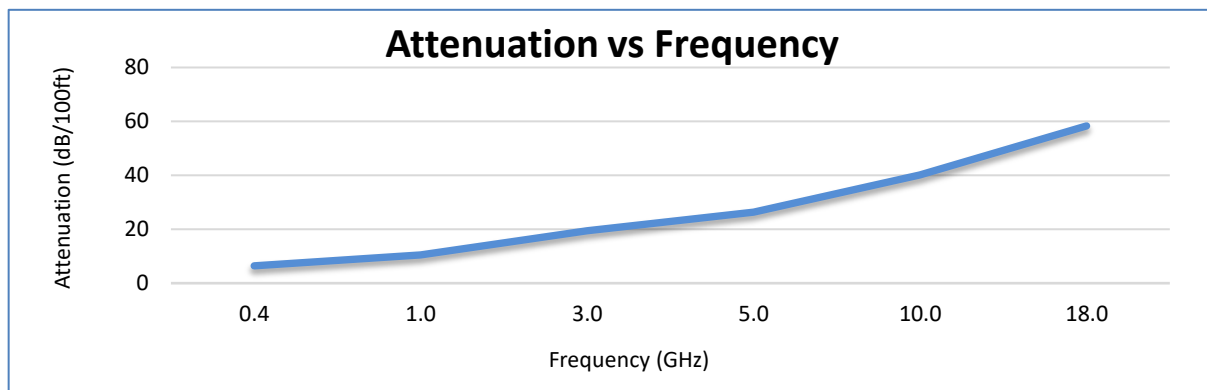
Frequency, Max (GHz)	31.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	70		
Shielding Effectiveness, 18 GHz (dB/ft)	>-90dB		
Capacitance (pF/ft)	29.4		
Delay (ns/ft), (ns/meter)	1.45	4.7610236	
Attenuation k1 (db/100ft) @ 23 deg C	0.302		Attenuation (Typical) at any Frequency
Attenuation k2 (db/100ft) @ 23 deg C	0.00099		=k1 x SqRt (FMHz) + k2 x (FMHz)

Mechanical/Environmental Data

Weight (lbs/100ft), (Kg/100m)	3.20	4.81	
Temperature Range ($^{\circ}$ C)	-55 to +200		
Minimum Bend Radius (inch), (mm)	0.80	20.32	

Construction Data

Inner Conductor (inch)	A		0.037	Solid SPCCS
Dielectric (inch)	B		-	Solid PTFE
First Outer Shield (inch)	C		-	Flat SPC Wrap
Second Outer Shield (inch)	D		-	Round Braid SPC
Jacket (inch O.D.)	E		0.163	Blue Tint FEP



Frequency GHz	0.4	1.0	3.0	5.0	10.0	18.0
Typical Loss dB/100ft	6.4	10.5	19.5	26.3	40.1	58.3