

HandyForm-I (solid dielectric) Cable

Cable Type 66 (502-13)

Frequency Range: DC - 18.00 GHz

General		
Cable Model No.	502-13	
Cable Code for Cable Assemblies	66	
Max. Operating Frequency (GHz)	18.00	
Mechanical		
Outer Diameter	inches	0.0850"
	mm	2.18
Outer Conductor Construction	Copper Braid/Tin Composite, 97% shield coverage	
Dielectric Material	solid PTFE	
Dielectric Dia. (mm)	1.68	
Dielectric Constant	2.0	
Center Conductor Material	copper-covered steel	
Center Conductor Finish	silver-plated	
Center Conductor Dia. (mm)	0.51	
Weight (grams/m)	20.00	
Safe Bending Radius for a 360° bend with proper tooling (mm)	3.50	
Electrical		
Impedance (Ohms @ sea level and +25°C)	50 ± 1	
Velocity of Propagation (% , ±2 %)	69.50	
Capacitance (pF/m)	97.00	
Dielectric Strength (KV _{rms} @ 60 Hz)	2.50	
Max. Operating Voltage (KV _{rms} @ 60 Hz and sea level)	1.50	
Nominal Insertion Loss vs. Frequency [dB/m]	0.50 GHz	0.39
	1.00 GHz	0.63
	5.00 GHz	1.88
	10.00 GHz	3.10
	18.00 GHz	4.90
Nominal CW Power vs. Frequency (@ sea level and +20°C) [Watts]	0.50 GHz	130.00
	1.00 GHz	88.00
	5.00 GHz	32.00
	10.00 GHz	22.00
	18.00 GHz	13.00
Environmental		
Operating Temperature Range (°C)	-54 to +110	

Characteristics:

Additional Information:

- [Connector Code details](#)
- [Information on armor](#)
- [Ordering Information](#)

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Specifications are subject to change without notice.