

HandyForm-II (low-density dielectric) Cable

Cable Type 47L (422-100-3)

Frequency Range: DC - 110.00 GHz

General		
Cabel Model No.	422-100-3	
Cable Code for Cable Assemblies	47L	
Max. Operating Frequency (GHz)	110.00	
Mechanical		
Outer Diameter	inches	0.0470"
	mm	1.19
Outer Conductor Construction	Copper/Tin	
Dielectric Material	low-density PTFE	
Dielectric Dia. (mm)	0.95	
Dielectric Constant	1.5	
Center Conductor Material	copper	
Center Conductor Finish	silver-plated	
Center Conductor Dia. (mm)	0.32	
Weight (grams/m)	7.00	
Safe Bending Radius for a 360° bend with proper tooling (mm)	3.20	
Electrical		
Impedance (Ohms @ sea level and +25°C)	50 ± 2	
Velocity of Propagation (%, ±2 %)	83.00	
Capacitance (pF/m)	105.00	
Dielectric Strength (KV _{rms} @ 60 Hz)	2.00	
Max. Operating Voltage (KV _{rms} @ 60 Hz and sea level)	0.60	
Nominal Insertion Loss vs. Frequency [dB/m]	0.50 GHz	0.80
	1.00 GHz	1.15
	5.00 GHz	2.65
	10.00 GHz	3.66
	18.00 GHz	4.98
Nominal CW Power vs. Frequency (@ sea level and +20°C) [Watts]	0.50 GHz	92.00
	1.00 GHz	60.00
	5.00 GHz	23.00
	10.00 GHz	15.00
	18.00 GHz	11.00
Environmental		
Operating Temperature Range (°C)	-65 to +200	

Characteristics:

Additional Information:

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

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Specifications are subject to change without notice.