

# HandyForm-II (solid dielectric) Cable

## Cable Type 166 (422-600-3)

Frequency Range: DC - 40.00 GHz

General		
Cabel Model No.	422-600-3	
Cable Code for Cable Assemblies	166	
Max. Operating Frequency (GHz)	40.00	
Mechanical		
Outer Diameter	inches	0.0870"
	mm	2.20
Outer Conductor Construction	Seamless Aluminum, tin-plated	
Dielectric Material	solid PTFE	
Dielectric Dia. (mm)	1.68	
Dielectric Constant	2.0	
Center Conductor Material	copper clad steel	
Center Conductor Finish	silver-plated	
Center Conductor Dia. (mm)	0.51	
Weight (grams/m)	13.00	
Safe Bending Radius for a 360° bend with proper tooling (mm)	3.20	
Electrical		
Impedance (Ohms @ sea level and +25°C)	50 ± 1	
Velocity of Propagation (% , ±2 %)	69.90	
Capacitance (pF/m)	105.00	
Dielectric Strength (KV <sub>rms</sub> @ 60 Hz)	5.00	
Max. Operating Voltage (KV <sub>rms</sub> @ 60 Hz and sea level)	1.50	
Nominal Insertion Loss vs. Frequency [dB/m]	0.50 GHz	0.42
	1.00 GHz	0.64
	5.00 GHz	1.60
	10.00 GHz	2.40
	18.00 GHz	3.40
Nominal CW Power vs. Frequency (@ sea level and +20°C) [Watts]	0.50 GHz	195.00
	1.00 GHz	130.00
	5.00 GHz	47.00
	10.00 GHz	31.00
	18.00 GHz	22.00
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.