

# HandyForm-II (solid dielectric) Cable

## Cable Type 168 (422-800)

Frequency Range: DC - 36.00 GHz

General		
Cabel Model No.	422-800	
Cable Code for Cable Assemblies	168	
Max. Operating Frequency (GHz)	36.00	
Mechanical		
Outer Diameter	inches	0.1410"
	mm	3.58
Outer Conductor Construction	Seamless Aluminum	
Dielectric Material	solid PTFE	
Dielectric Dia. (mm)	2.99	
Dielectric Constant	2.0	
Center Conductor Material	copper clad steel	
Center Conductor Finish	silver-plated	
Center Conductor Dia. (mm)	0.92	
Weight (grams/m)	30.00	
Safe Bending Radius for a 360° bend with proper tooling (mm)	6.50	
Electrical		
Impedance (Ohms @ sea level and +25°C)	50 ± 1	
Velocity of Propagation (% , ±2 %)	69.90	
Capacitance (pF/m)	98.00	
Dielectric Strength (KV <sub>rms</sub> @ 60 Hz)	5.00	
Max. Operating Voltage (KV <sub>rms</sub> @ 60 Hz and sea level)	1.90	
Nominal Insertion Loss vs. Frequency [dB/m]	0.50 GHz	0.28
	1.00 GHz	0.41
	5.00 GHz	1.05
	10.00 GHz	1.55
	18.00 GHz	2.20
Nominal CW Power vs. Frequency (@ sea level and +20°C) [Watts]	0.50 GHz	680.00
	1.00 GHz	450.00
	5.00 GHz	170.00
	10.00 GHz	120.00
	18.00 GHz	74.00
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.