

HandyForm-II (solid dielectric) Cable

Cable Type 145 (422-130)

Frequency Range: DC - 110.00 GHz

General		
Cabel Model No.	422-130	
Cable Code for Cable Assemblies	145	
Max. Operating Frequency (GHz)	110.00	
Mechanical		
Outer Diameter	inches	0.0470"
	mm	1.19
Outer Conductor Construction	Seamless Aluminum	
Dielectric Material	solid PTFE	
Dielectric Dia. (mm)	0.91	
Dielectric Constant	2.0	
Center Conductor Material	copper clad steel	
Center Conductor Finish	silver-plated	
Center Conductor Dia. (mm)	0.29	
Weight (grams/m)	6.00	
Safe Bending Radius for a 360° bend with proper tooling (mm)	1.50	
Electrical		
Impedance (Ohms @ sea level and +25°C)	50 ± 1	
Velocity of Propagation (%, ±2 %)	69.90	
Capacitance (pF/m)	105.00	
Dielectric Strength (KV _{rms} @ 60 Hz)	2.00	
Max. Operating Voltage (KV _{rms} @ 60 Hz and sea level)	1.00	
Nominal Insertion Loss vs. Frequency [dB/m]	0.50 GHz	0.81
	1.00 GHz	1.15
	5.00 GHz	2.80
	10.00 GHz	4.60
	18.00 GHz	6.50
Nominal CW Power vs. Frequency (@ sea level and +20°C) [Watts]	0.50 GHz	50.00
	1.00 GHz	32.00
	5.00 GHz	12.00
	10.00 GHz	8.00
	18.00 GHz	5.50
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.