

# Picotest PDN Cable<sup>®</sup> Specifications

Frequency (GHz)	Attenuation (dB/m)	Attenuation (dB/ft)
1	0.62	0.19
2	0.92	0.28
4	1.57	0.48
8	2.00	0.61
12	2.53	0.77
18	3.22	0.98



<b>Impedance</b>	50 ± 2	Ohms
<b>Velocity Factor</b>	70	%
<b>Capacitance</b>	29	pF/ft
<b>Temperature range</b>	-55 to +125	°C
<b>Shield Attenuation</b>	≥ 110	dB to 18 GHz
<b>Static bend radius</b>	0.375	inches
<b>Diameter</b>	0.140	inches
<b>Torque Requirement</b>		
<b>Coupling</b>		
- normally moment *	0.8 – 1.1	N • m
- moment resistance	1.69	N • m
<b>Color</b>	326	Pantone
<b>Phase Stability</b>	TBD	

\* as per IEC Standard

- Reduced shield resistance for more accurate PDN impedance measurements
- Beryllium soldered connectors for reduced shield resistance
- Ultra-flexible 18GHz cable optimized for PDN measurement and SI measurement
- Santoprene jacket for +125C for temperature chamber measurements
- Triple shielded for added noise suppression
- Custom made assemblies are 100% TDR tested for defects
- Available in bulk form or cable assemblies
- **Very thin, ultra-flexible, high temp, 12GHz**
- **The best combination of Ultra-thin diameter, and bend radius**

The largest source of error in ultra-low impedance measurement is the cable shield resistance, followed by the ground isolator. Picotest has optimized both, allowing more accurate measurements well below 100uOhms. The PDN Cable is optimized for PDN measurements but is also highly suited for SI measurements.