



### Overview

The ATC-PS series of amplitude and phase stable low loss test cables is a full Amphenol solution. These pre-configured SMA and N-Type assemblies feature high performance stainless steel connectors terminated to triple shielded, ultra low loss cable manufactured by Times Microwave Systems, a division of Amphenol. ATC-PS test cables are ideal for test and measurement applications up to 20 GHz.

These SMA and N-Type cable assemblies feature robust strain relief construction to ensure stability of the center contact relative to the connector body. This rigidity allows for optimal performance and consistent phase stability.

### Features and Benefits

- DC to 20GHz
- High phase stability
- Ultra low loss
- Supports over 5,000 mating cycles
- High flexibility with 1" minimum bend radius

### Applications

- Test and measurement
- Lab and bench testing
- Production testing
- OEM cable alternative

### Amphenol RF

Four Old Newtown Road  
Danbury, CT 06810

For more information visit [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

### Ordering Information



#### SMA Plug to SMA Plug

Part Number	Length (in)	Length (mm)	Insertion Loss (max)
095-902-466-001	24.00	610	1.84 dB
095-902-466-002	36.00	914	2.61 dB
095-902-466-005	39.37	1000	2.84 dB
095-902-466-003	48.00	1219	3.37 dB
095-902-466-004	72.00	1829	4.90 dB

#### SMA Plug to N-Type Plug

Part Number	Length (in)	Length (mm)	Insertion Loss (max)
095-909-164-024	24.00	610	1.84 dB
095-909-164-036	36.00	914	2.61 dB
095-909-164M100	39.37	1000	2.84 dB
095-909-164-048	48.00	1219	3.37 dB
095-909-164-060	60.00	1524	4.14 dB
095-909-164-072	72.00	1829	4.90 dB

#### N-Type Plug to N-Type Plug

Part Number	Length (in)	Length (mm)	Insertion Loss (max)
095-909-168-024	24.00	610	1.84 dB
095-909-168-036	36.00	914	2.61 dB
095-909-168M100	39.37	1000	2.84 dB
095-909-168-048	48.00	1219	3.37 dB
095-909-168-060	60.00	1524	4.14 dB
095-909-168-072	72.00	1829	4.90 dB

# Amphenol® RF

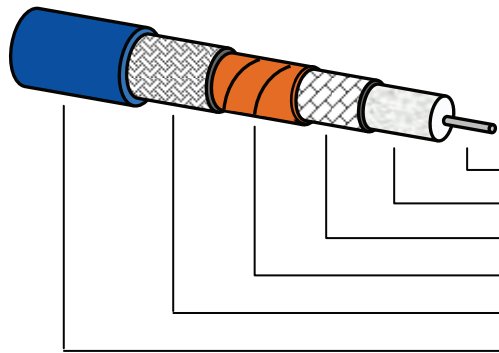
## Technical Specifications

Electrical		N-Type	SMA
Impedance		50 Ω	
Frequency Range		DC - 18 GHz	DC - 20 GHz
Dielectric Withstanding Voltage		1000 VRMS Min.	
Insulation Resistance		500 MΩ Max.	
Phase Stability (with bending)		4.6° Max.	5.0° Max.
Amplitude Stability		0.15 dB Max.	0.16 dB Max.
VSWR		1.30 Max.	1.27 Max.
Velocity of Propagation		69.40%	
Capacitance		24.2pF/ft	
Contact Resistance	Center Contact	5 mΩ	
	Outer Contact	2.5 mΩ	

Mechanical		
Mating		Threaded
Mating Cycles		5000 Cycles Min.
Minimum Bend Radius		1 in. (25mm)

Environmental		
Temperature Range		-55°C to +200°C
RoHS		Compliant with exemption 6C

Materials			
Body and Coupling Nut		Stainless Steel, Passivated	
Male Contact		Beryllium Copper, Gold Plated	
Retaining Ring		Stainless Steel	Phosphor Bronze
Insulator		PTFE	



Center Conductor	Silver Plated Copper Clad Steel
Dielectric	Solid PTFE
1 <sup>st</sup> Shield	Silver Plated Copper Strip
Interlayer	Aluminum-Kapton
2 <sup>nd</sup> Shield	36 GA Silver Plated Copper
Jacket	Blue FEP

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