SMA-to-SMP Microwave Adapter Cables



Description

Thorlabs' SMA-to-SMP Microwave Adapter Cables support frequencies from DC up to 18 GHz. Each cable is terminated with an SMA Male or Female connector on one end and an SMP Female connector on the other end. These microwave cables are designed to be flexible while maintaining low-loss performance from DC – 18 GHz. The SMA and SMP connector body and center pin are gold-plated. These adapter cables are available in lengths of 3" and 6".

The SMA connector can mate directly to a 2.92 mm, 3.5 mm, or K™ connector. The SMP connector can mate directly to a GPO™ connector.

Specifications

SMA-to-SMP Adapter Cable Specifications	
Frequency Range	DC – 18 GHz
Outer Cable Diameter	2.64 mm
Center Conductor (solid)	Ø0.51 mm
Impedance	50 Ω
Withstand Voltage	1500 VDC
Min Bend Radius	6.4 mm
Capacitance	96 pF/m
Max Average Power	31 W @ 10 GHz
Max VSWR[a] @ 18 GHz	1.4
Propagation Velocity	69.5%
Coupling Nut Hex Size	5/16"
Recommended Coupling Torque	5 in•lb (0.56 N•m)

a) Voltage Standing Wave Ratio



Item #	Length	Max Insertion Loss	Connector Type
SMGF3	76 mm ± 8 mm (3.00" ± 0.30")	1.0 dB	SMA Male to SMP Female
SMGF6	152 mm ± 10 mm (6.00" ± 0.40")	1.2 dB	SMA Male to SMP Female
SFGF3	76 mm ± 8 mm (3.00" ± 0.30")	1.0 dB	SMA Female to SMP Female
SFGF6	152 mm ± 10 mm (6.00" ± 0.40")	1.2 dB	SMA Female to SMP Female

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GPO™ is a registered trademark of Corning-Gilbert.