

INSTABEND™ 086

HIGH PERFORMANCE MICROWAVE ASSEMBLIES

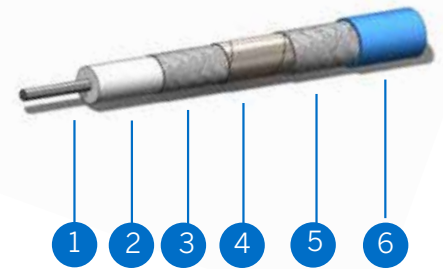
INSTABEND™ are flexible, coaxial microwave assemblies designed for interconnects between RF circuit cards, modules and enclosure panels. The cable can be bent very closely behind the connector, simplifying cable routing.

FEATURES

- **Readily Available**
- **Extreme bending from the back of the connector for minimal footprint**

Cable Specifications

	Units	
Diameter	in (mm)	0.10 (2.67)
Weight	lb/ft (kg/m)	0.01 (0.02)
Minimum Bend Radius	in(mm)	0.3 (6.4)
Operating Temperature	F°	-76 to 257
	C°	-60 to 125
Maximum Frequency	GHz	62
Maximum Operating Voltage	VAC _{rms}	100
Impedance	ohms	50
Velocity of Propagation		70%
Capacitance	pF/ft (pF/m)	29.9 (98.1)
Delay	ns/ft (ns/m)	1.45 (4.76)
Shielding	dBc	-90



- Center Conductor**
Silver Plated Copper Clad Steel
- Dielectric**
PTFE
- Shield**
Silver Plated Copper Braid
- Interlayer**
Metalized Polyester Tape
- Outer Braid**
Silver Plated Copper Clad Steel
- Jacket**
Blue FEP

$$IL = (K1 \times v(f) + K2 \times f) \times \text{Cable Length} + \text{Connector Loss}$$

Cable Insertion Loss

K Values

	dB/ft	dB/m
K1	0.00666	0.0218
K2	0.00001279	0.0000419

f= Frequency in MHz

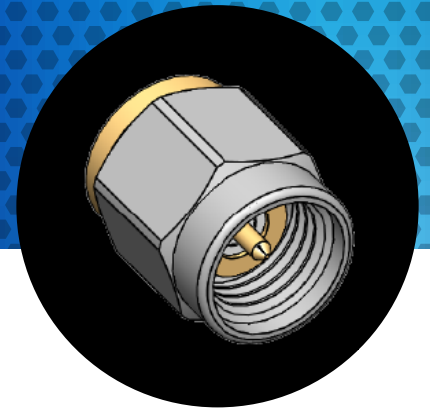
Length unit must match K value unit.

Loss Per Pair

Frequency MHz	dB/pr
500	0.04
1000	0.06
2000	0.08
4000	0.12
6000	0.15
8000	0.17
10000	0.19
12000	0.21
14000	0.22
16000	0.24
18000	0.25

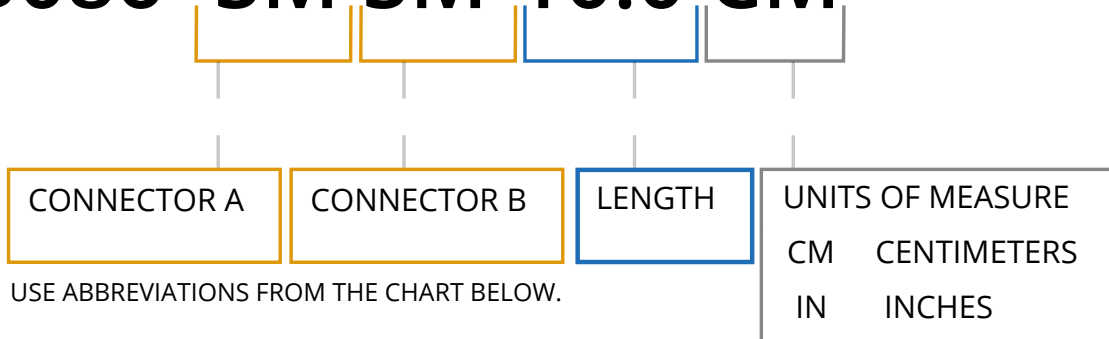
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HIGH PERFORMANCE MICROWAVE COAXIAL CABLE



Ordering Guide

IB086- SM SM-10.0 CM



Abbreviation	Part Number	Description	VSWR max
SMPF	47389	SMP female Straight	1.35 @ DC-12.4 GHz 1.50 @ 12.4- 18 GHz
SM	47388	SMA male Straight	1.25 @ DC-27 GHz
KM	47393	2.92 male Straight	1.25 @ DC-27 GHz 1.40 @ 27-40 GHz



Heritage—in the air and on the ground, thousands of assemblies built over decades



Global manufacturing capability: US, and Asia.



Assembled and tested assemblies provide assured performance

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