



***i*CALIBER**

Test Cables

Low Insertion Loss

Low VSWR

Crush, Torque and Kink
Resistant

Excellent Amplitude Stability
with Flexure

Available from Stock

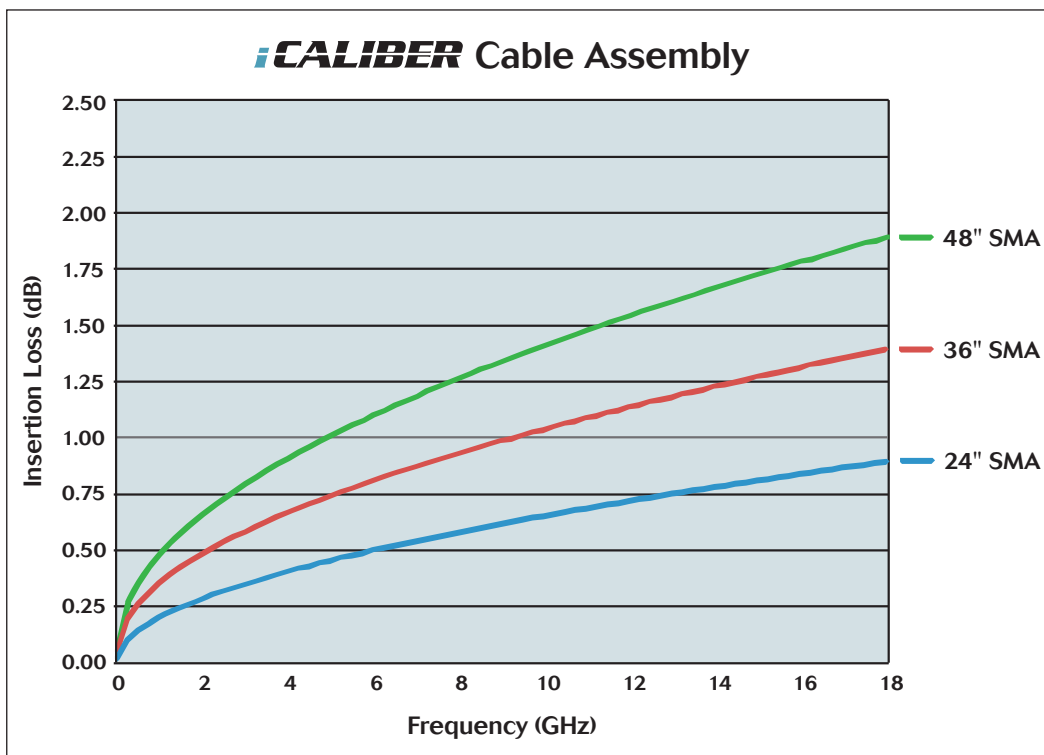


Product Guide

iCALIBER test cables offer the Quality and Performance of a high end test cable with the cost of ownership of an economy grade test cable.

Applications

- Product verification
- Production test stations
- Test labs and development labs
- RF field testing
- Environmental and Qualification testing
- Replacement of OEM test leads



How to order:

Model Number: ICAL 18-NM-XXXXY

Base Model Number

18 = 18 GHz

26 = 26.5 GHz

SM = SMA Male Connectors

NM = Type N Male Connectors

35M = 3.5mm Male Connectors

y = Unit of Measure

Blank (Default) = Inches

M = Meters (0.5 increments)

XXXX = Length

24", 36", and 48" Lengths Available from Stock



Electrical Specifications:

	ICAL18-SM	ICAL18-NM	ICAL26-35M
Connectors	SMA Male	N Male	3.5mm Male
Impedance	50 Ohms	50 Ohms	50 Ohms
Operating Frequency	DC-18 GHz	DC-18 GHz	DC-26.5 GHz
Velocity of Propagation	77%	77%	77%
Insulation Resistance	>5 x 10 ³ MΩ	>5 x 10 ³ MΩ	>5 x 10 ³ MΩ
Screening Effectiveness	>100 dB	>100 dB	>100 dB
Dielectric Withstanding Voltage	2500 Vrms	2500 Vrms	2500 Vrms
CW Power @ Maximum Frequency	100W	100W	100W
Phase Stability and Flexure**	± 12 Degrees	± 12 Degrees	± 12 Degrees
Amplitude vs. Flexure**	± 0.06 dB	± 0.06 dB	± 0.06 dB

** Based on a 36 inch cable assembly to 18 GHz

Typical Cable Performance (dB/ft.)

Attenuation @ 2 GHz	0.13	0.13	0.13
Attenuation @ 10 GHz	0.30	0.30	0.30
Attenuation @ 18 GHz	0.41	0.41	0.41
Attenuation @ 26.5 GHz*	N/A	N/A	0.50

Typical Cable Assembly Performance (dB)

Attenuation @ Max Frequency (36 inch cable)	1.3	1.4	1.7
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Maximum VSWR Performance

VSWR @ 2 GHz	1.07:1	1.07:1	1.07:1
VSWR @ 10 GHz	1.20:1	1.20:1	1.20:1
VSWR @ 18 GHz	1.25:1	1.25:1	1.25:1
VSWR @ 26.5 GHz*	N/A	N/A	1.45:1

* 3.5mm Assemblies Only

Mechanical Specifications:

Cable Diameter with Armor	0.4 in.
Bend Radius	4.0 in.
Connector Retention	>200 N
Connector Interface	MIL-STD-348A
Armor Crush Resistance (per linear foot)	1200 lbs.
Weight (per linear foot)	0.055 lbs.

Environmental:

Operating Temperature Range	-55° to +105°C
RoHS Compliant	

Cable Construction:

Armor Jacket	Stainless Steel, Flexible, Passivated
Cable Jacket	FEP
Shield	Copper Wrapped Foil, Silver Plated
Outer Conductor	Copper Braid, Silver Plated
Dielectric	PTFE
Center Conductor	Copper Wire, Silver Plated
Connectors	Stainless Steel, Passivated
Contacts	BeCu, Gold Plated
Connector Dielectrics	PTFE

Complete Specifications Available at www.aeroflex.com/icaliber

Test Accessories from Aeroflex / Inmet

Adapters



5030Q
SMA M/F
Quick Connect
\$29.00



5010
SMA F/F
\$ 8.75



5246
SMA/3.5mm M/M
\$54.00



5248
SMA/3.5mm F/M
\$54.00



5107
SMA/Type N
M/F
\$44.45



5109
SMA/Type N
F/F
\$44.45



5057Q
SMA/Type N M/F
Quick Connect
\$45.00



5103
Precision N
F/F
\$39.00



5145
Type N/3.5mm
M/F
\$45.00



5147
Type N/3.5mm
F/F
\$44.00



5084
3.5mm M/F
\$60.00



5141
7mm/3.5mm F
\$148.00

Attenuators



18A Series
18 GHz SMA
\$28.00



26AH Series
Hex 26.5 GHz 2.92mm
\$76.50



18N Series
18 GHz Type N
\$47.00



40A Series
40 GHz 2.92mm
\$115.00

Terminations



3004M
18 GHz SMA-M
\$17.00



TS260
26.5 GHz SMA-M
\$28.00



3070M
18 GHz Type N-M
\$24.00



3101
18 GHz Precision Type N-M
\$167.00

See the complete line of Adapters, Attenuators and Terminations at www.aeroflex.com/inmet



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Our passion for performance is defined by three attributes represented by the icons pictured above: solution-minded, performance-driven and customer-focused.