

iCALIBER SMA CABLE ASSEMBLY

DC - 18 GHz
100 W @ 18 GHz

api 
technologies corp.
INMET

MODELS: ICAL18-SM-XXXXY

SPECIFICATIONS:

Electrical:

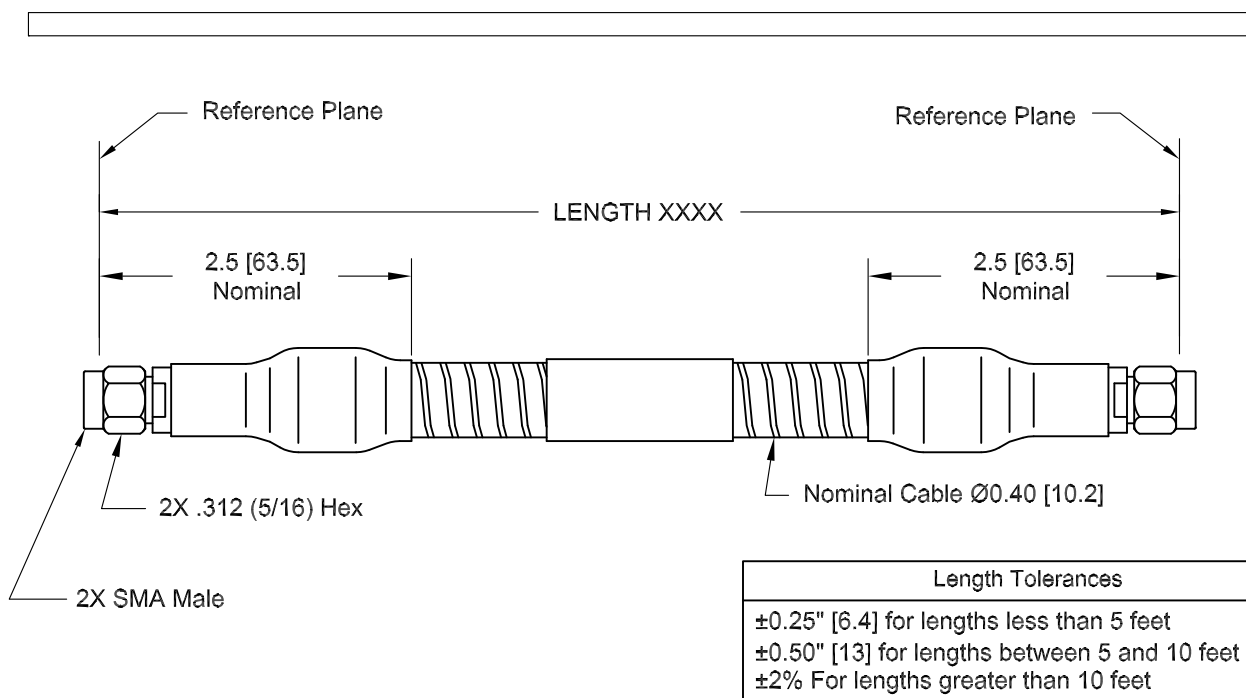
Frequency Range _____ DC - 18 GHz
Impedance _____ 50 Ohms
Velocity of Propagation _____ 77 %
Insulation Resistance _____ > 5000 M Ohm
Dielectric Withstanding Voltage _____ 2500 V rms
Power Handling _____ 100 Watts at 18 GHz
Temperature Range _____ -55°C to +105 °C

Frequency (GHz)	Return Loss (dB) Min	Cable Loss * (dB/ft) Nom
DC - 2.0	30	0.13
2.0 - 4.0	28	0.19
4.0 - 6.0	25	0.23
6.0 - 12.0	21	0.33
12.0 - 18.0	19	0.41

Physical & Mechanical:

Preferred Bending Radius _____ 4.0 inch
Connector Retention Force _____ > 200 N
Connectors _____ Passivated Stainless Steel
(Mates with SMA IAW MIL-STD-348A)
Center Conductors _____ Gold Plated Beryllium Copper
Armored Jacket _____ Passivated Stainless Steel
Insulators _____ PTFE

*Cable Assembly Insertion Loss Calculation = $L * [(0.0864 * \text{SQRT}(F)) + (0.00216 * F)] + (0.097 * \text{SQRT}(F))$
(Where "F" = Frequency in GHz and "L" = Length in Feet)



HOW TO ORDER:

Model Number: **ICAL18-SM-XXXXY**

Base Model Number

18 = 18 GHz

SM = SMA Male Connectors

Y = UNIT OF MEASURE
BLANK (Default) = INCHES
M = METERS
(HALF METER INCREMENTS)

XXXX = LENGTH

Ordering Examples:

Standard Model Numbers:

ICAL18-SM-24 = 24 INCH CABLE

ICAL18-SM-36 = 36 INCH CABLE

ICAL18-SM-48 = 48 INCH CABLE

Model Number: **ICAL18-SM-1.5M**
1.5 METERS, 18 GHz, SMA MALE ASSY

Note: Dimensions in Brackets are Expressed in Millimeters and are for Reference Only.

Design specifications are subject to change without notice.

Contact factory for technical specifications before purchasing or use.

ICAL18-SM; REV C

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