

iCALIBER 3.5mm CABLE ASSEMBLY

DC - 26.5 GHz 100 W @ 26.5 GHz



MODELS: ICAL26-35M-XXXXY

SPECIFICATIONS:

Electrical:

Frequency Range _____ DC - 26.5 GHz
 Impedance _____ 50 Ohms
 Velocity of Propagation _____ 77 %
 Insulation Resistance _____ > 5000 M Ohm
 Dielectric Withstanding Voltage _____ 2500 V rms
 Power Handling _____ 100 Watts at 26.5 GHz
 Temperature Range _____ -55°C to +105 °C

Physical & Mechanical:

Preferred Bending Radius _____ 4.0 inch
 Connector Retention Force _____ > 200 N
 Connectors _____ Passivated Stainless Steel

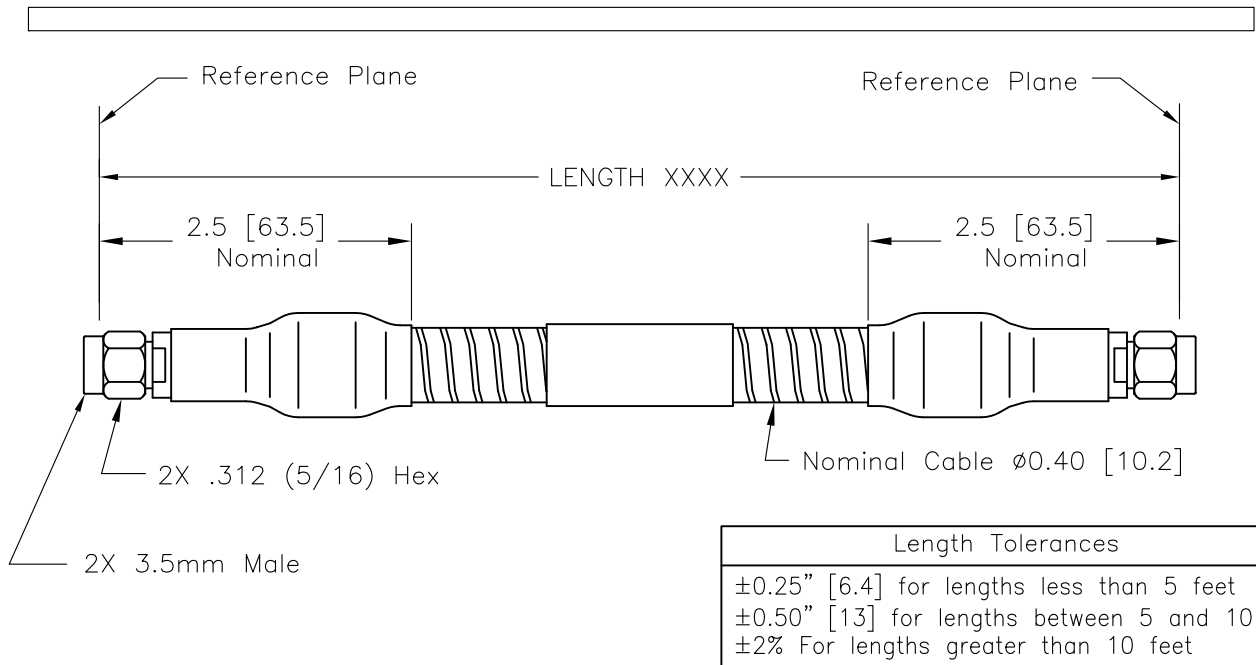
Mates both Electrically and Mechanically with all
 SMA & K* Series Connectors.

Center Conductors _____ Gold Plated Beryllium Copper
 Armored Jacket _____ Passivated Stainless Steel
 Insulators _____ PTFE

*K is a trademark of Anritsu Corp.

**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)

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
18.0 - 26.5	15	0.52



HOW TO ORDER:

Model Number: **ICAL26-35M-XXXXY**
 Base Model Number: **ICAL26-35M**
 26 = 26.5 GHz
 35M = 3.5mm Male Conn.

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

XXXX = LENGTH

Ordering Examples:

Standard Model Numbers:
 ICAL26-35M-24 = 24 INCH CABLE
 ICAL26-35M-36 = 36 INCH CABLE
 ICAL26-35M-48 = 48 INCH CABLE

Model Number: ICAL26-35M-1.5M
 1.5 METERS, 26.5 GHz, 3.5mm 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.