

iCALIBER Type N Cable Assembly

DC - 18 GHz, 100 W @ 18 GHz



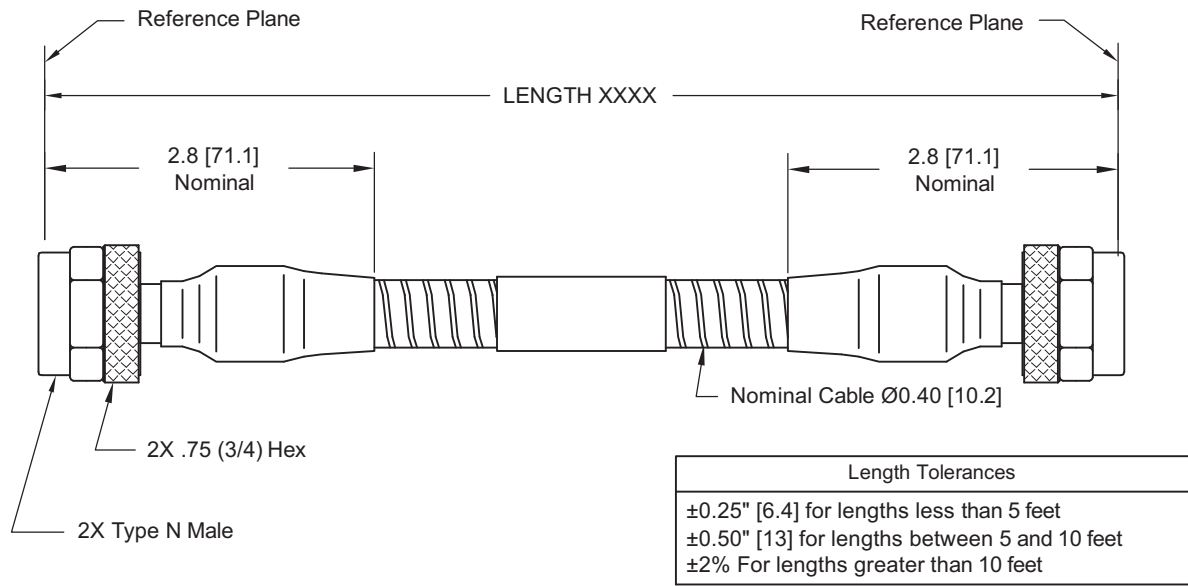
SPECIFICATIONS:

Models: ICAL18-NM-XXXXY

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

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

*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-NM-XXXXY**

Base Model Number

- 18 = 18 GHz
- NM = Type N Male Connectors
- Y = UNIT OF MEASURE
BLANK (Default) = INCHES
M = METERS
(HALF METER INCREMENTS)
- XXXX = LENGTH

Ordering Examples:

Standard Model Numbers:
 ICAL18-NM-24 = 24 INCH CABLE
 ICAL18-NM-36 = 36 INCH CABLE
 ICAL18-NM-48 = 48 INCH CABLE

Model Number: ICAL18-SM-1.5M
 1.5 METERS, 18 GHz, TYPE N 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-NM REV C



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