iCALIBER TYPE N CABLE ASSEMBLY

(Mates with Type N IAW MIL-STD-348A)

DC - 18 GHz 100 W @ 18 GHz



MODELS: ICAL18-NM-XXXXY

Armored Jacket ___

Insulators _

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
Physical & Mechanical:	
Preferred Bending Radius	4.0 inch
Connector Retention Force	
Connectors	_ Passivated Stainless Steel

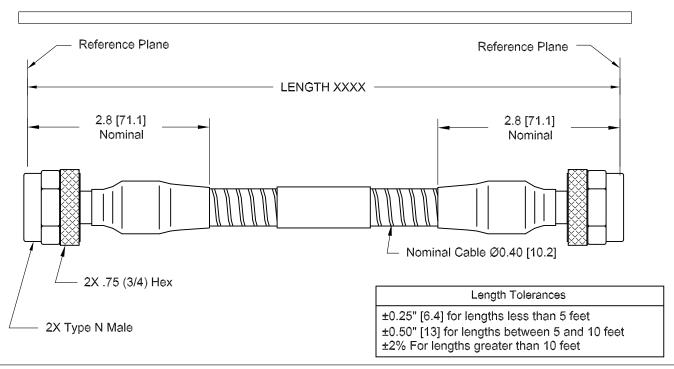
Center Conductors _____ Gold Plated Beryllium Copper

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 * SQRT(F)) + (0.00216 * F)] + (0.097 * SQRT(F)] (Where "F" = Frequency in GHz and "L" = Length in Feet)

PTFE

Passivated Stainless Steel



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.