

Precision Microwave Cable Assembly



Ideal for
test and measurement
applications with
high electrical performances
- 50 GHz version -



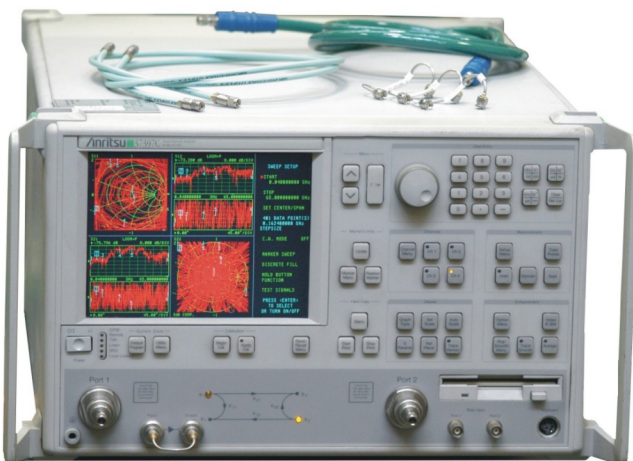
50 GHz test cable
is a precision test cable
assembly provide reliable
precise and repeatable
measurement with excellent
loss VSWR and phase/flexure
stability.

The cable has 8 layers , each
layers have different function to
ensure the best cable
performances.

Built to the best quality standard
to ensure long service life and
durability

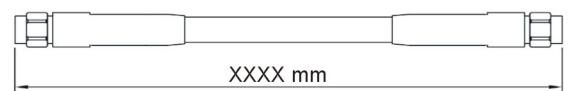
Product characteristics :

- accurate measurement
- Phase, loss and VSWR stable
- low loss 50 GHz cable
- 2.4 connectors low VSWR
- high flex life
- Nomex braid protection



Connector 1

Connector 2



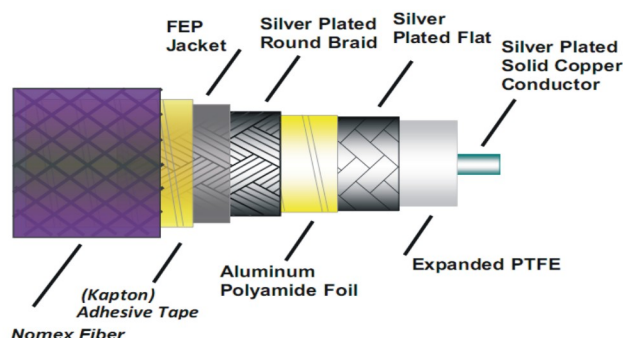
How to order :

- 1) connector 1 and connector 2 - 2.4 mm Male
- 2) XXXX mm - specify cable lenght in mm

Code : 2.4 M - C122 - XXXX - 2.4 M

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Cable cod: C122 (Spec. 01-117)



(This cable is constructed in accordance with MIL-DTL-17)

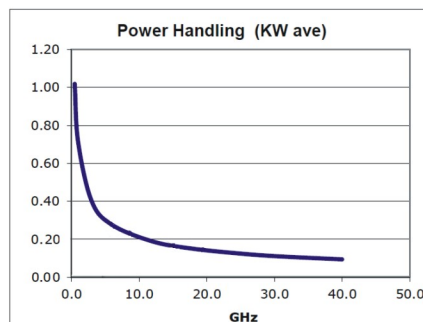
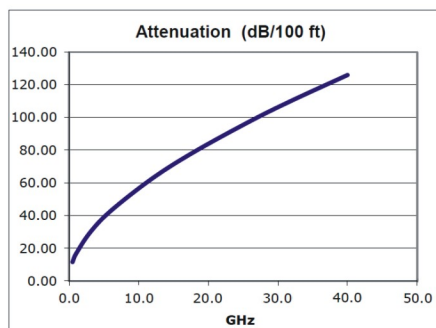
Center Conductor: Silver Plated Copper per ASTM B298
Dielectric: Type F per ASTM D4894 or D4895, Semisolid PTFE (proprietary)
Primary Shield: Silver Plated Copper Ribbon Wire per ASTM B298
Second Shield: High Temp, Aluminum Polyimide Aluminum Foil
Third Shield: Silver Plated Copper per ASTM B298
High Temp Jacket: Type IX per, FEP (Flame Resistance & Smoke = UL94 V-0)
Vapor Layer: High Temp Polyamide (Kapton) Adhesive Tape
Outer Jacket: Nomex Fiber

Electrical Properties (Cable Only)

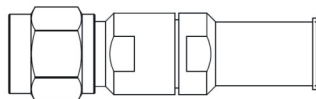
Impedance (ohms)	50
Velocity of Propagation (%)	78%
Min. Shielding Effectiveness (dB)	90
Min. Breakdown Voltage (KV)	5
Capacitance (pf/ft)	26
Inductance (nH/ft)	66
Max Operating Freq (GHz)	50.0
Max Structural VSWR	1.25:1

Physical Properties (Cable Only)

Maximum Temperature (deg C)	-65 / +200
Recommended Temperature (deg C)	-65 / +165
Outer Woven Jkt O.D. (in)	0.194
Jacket O.D. (in)	0.122
Round Braid O.D. (in)	0.104
Foil O.D. (in)	0.088
Flat Braid O.D. (in)	0.080
Dielectric O.D. (in)	0.074
Center Conductor (in)	0.0250
Inside Min. Bend Radius (in)	0.61
Weight (lbs/ft)	0.029

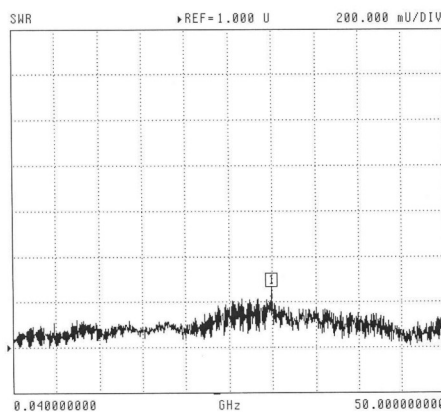


Connector 2.4 mm instrument grade cod : 21.000.091-314



Mating interface dimensions Per IEE-std-287 (2.4mm plug)
 Frequency range : DC to 50 GHz
 Nominal Impedance (Ohm): 50
 Insulation resistance (Min. M Ohm): 5000
 Captivated center contact gold plated
 Body stainless steel passivated

S11 FORWARD REFLECTION



CH 2 - S11
 0.0000 mm REF
 0.000 dB OFFSET
 0.00° OFFSET

MARKER 1
 30.00000000 GHz
 1.227 U

MARKER TO MAX
 MARKER TO MIN

MARKER READOUT
 FUNCTIONS

Typical VSWR for 1.5m cable 2.4 M-2.4 M

Note: The company reserves the right and may change or vary specification without prior written notice.