



CRYSTEK MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

50 GHZ LOW LOSS RF COAX CABLE ASSEMBLIES WITH 2.4mm STAINLESS STEEL CONNECTORS



50 GHz Low Loss Coaxial Cables

Features:

Strain Relief:	Heavy duty adhesive strain relief
Center Conductor:	Silver-plated solid copper
Inner Shield:	Flat silver-plated copper strip
Middle Shield:	High temp. aluminum polyimide foil
Outer Shield:	PC (Round Silver-Plated Copper Braid)
Dielectric:	Expanded PTFE, Type F (Polytetrafluoroethylene)
Jacket:	ETFE, Type X per ASTM D3159
Cable Outer Diameter:	0.122" (3.10mm)
Connectors:	SST, corrosion-resistant 303 stainless steel per ASTM-A582 (Passivated finish per SAE-AMS-2700)
Center Pin:	GPBC (Gold-Plated Beryllium Copper)
Jacket Color:	Grey
Operating Temperature:	-40°C to +85°C
Minimum Bend Radius:	0.40"

Electrical Specifications:

Impedance:	50 Ohms
Frequency:	Up to 50 GHz
Insertion Loss:	<1.44 dB/ft at 50 GHz
VSWR:	<1.35 to 50 GHz
Max Oper. Voltage:	500V RMS
Nominal Capacitance:	27.0 pF/ft
Velocity of Propagation:	78%
Shield Effectiveness:	Greater than 90 dB
Attenuation (dB/ft):	0.11 Max at 500 MHz
*connector loss not included	0.17 Max at 1 GHz
	0.43 Max at 6 GHz
	0.63 Max at 12 GHz
	0.79 Max at 18 GHz
	0.97 Max at 26 GHz
	1.26 Max at 40 GHz
	1.44 Max at 50 GHz

Mechanical Specifications:

Connector Corrosion (salt spray):

MIL-STD-202, method 101, test cond. B 5% salt solution.

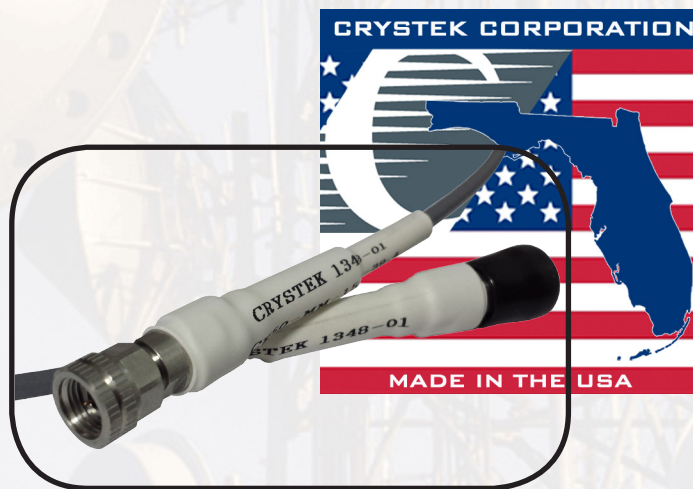
Connector Durability:

500 connections Minimum

Electrical Test Data Supplied With Each Cable Assembly

Custom Lengths Available

2.4mm / 2.4mm [Straight/Straight]



Part Number	Description	Length
CC2450-MM-150-24	50 GHz Low Loss Coax Cable, 2.4mm Male/Male, Straight/Straight	24"
CC2450-MM-150-39.4	50 GHz Low Loss Coax Cable, 2.4mm Male/Male, Straight/Straight	39.4"
CC2450-MM-150-48	50 GHz Low Loss Coax Cable, 2.4mm Male/Male, Straight/Straight	48"



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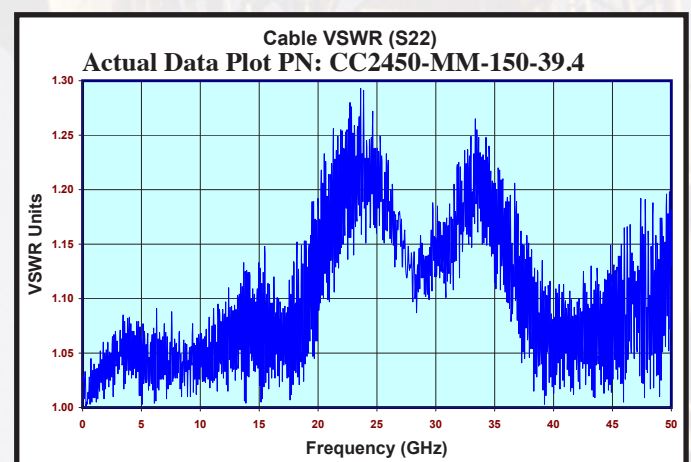
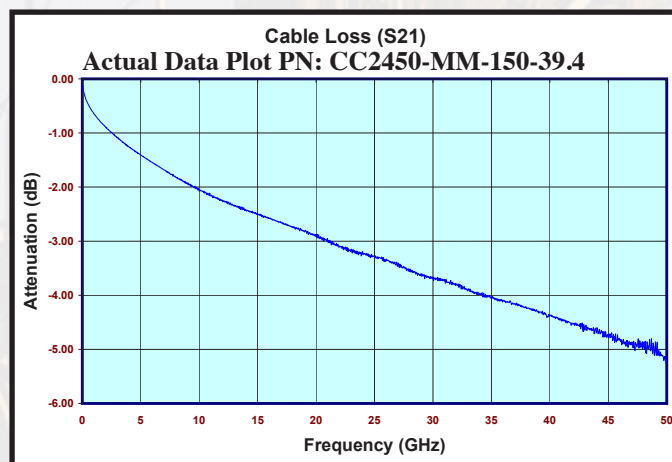
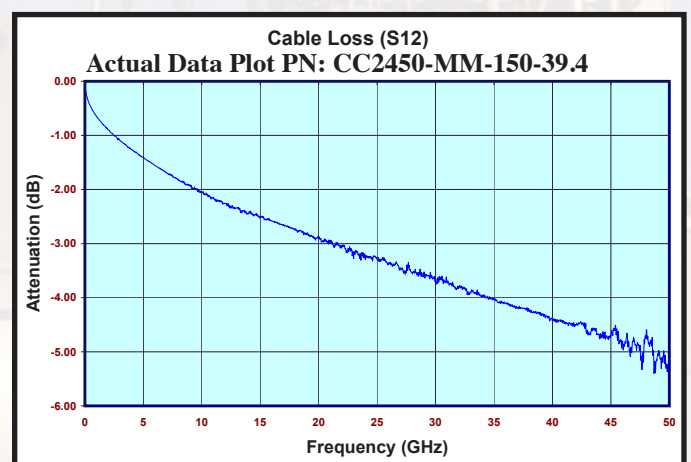
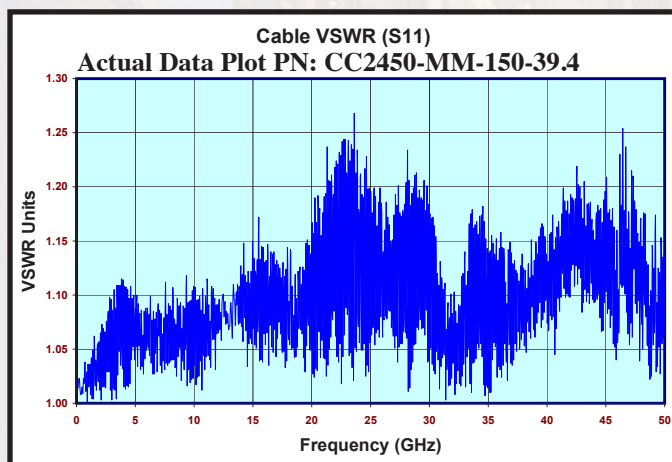
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