



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
 - 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
- *connector loss not included

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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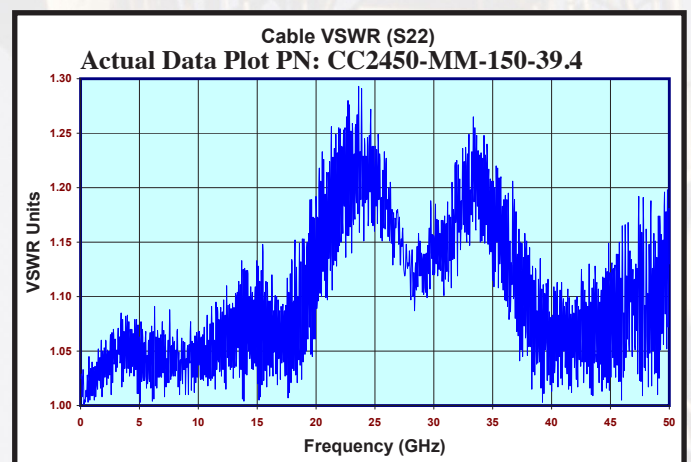
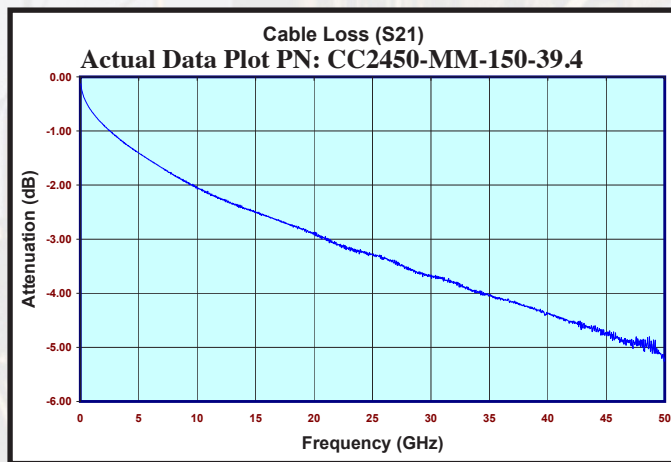
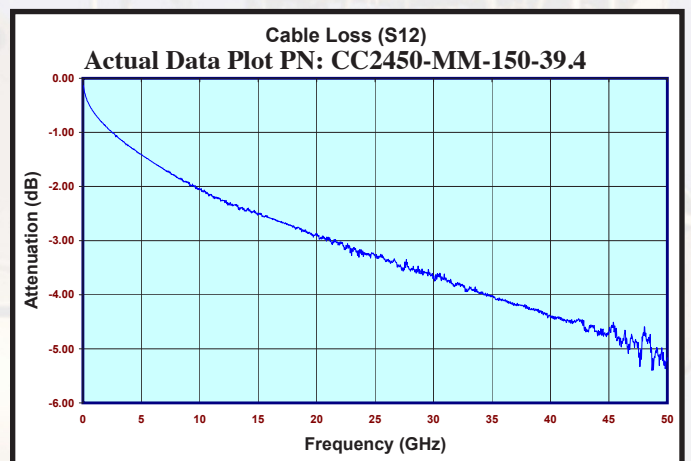
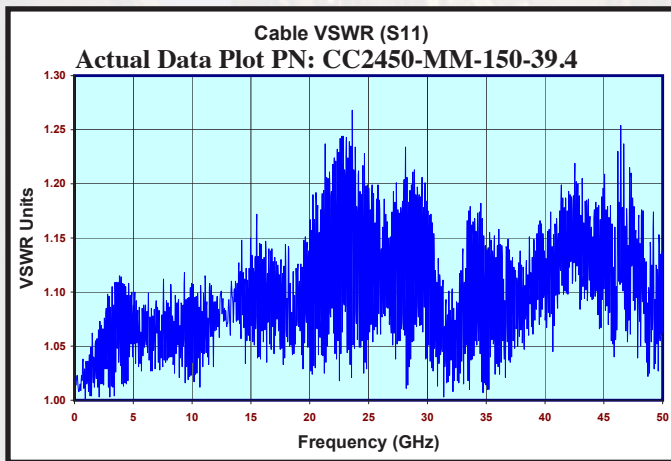
12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913
PHONE: 239-561-3311 • 800-237-3061 Rev.: C
FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 04-07-14



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