



# 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:

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

#### Electrical Specifications:

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Impedance:</b>               | 50 Ohms               |
| <b>Frequency:</b>               | Up to 50 GHz          |
| <b>Insertion Loss:</b>          | <1.44 dB/ft at 50 GHz |
| <b>VSWR:</b>                    | <1.35 to 50 GHz       |
| <b>Max Oper. Voltage:</b>       | 500V RMS              |
| <b>Nominal Capacitance:</b>     | 27.0 pF/ft            |
| <b>Velocity of Propagation:</b> | 78%                   |
| <b>Shield Effectiveness:</b>    | Greater than 90 dB    |
| <b>Attenuation (dB/ft):</b>     | 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.

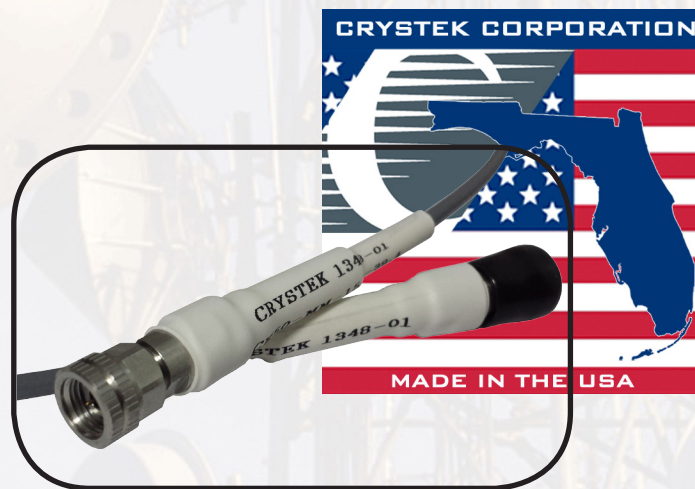
##### Connector Durability:

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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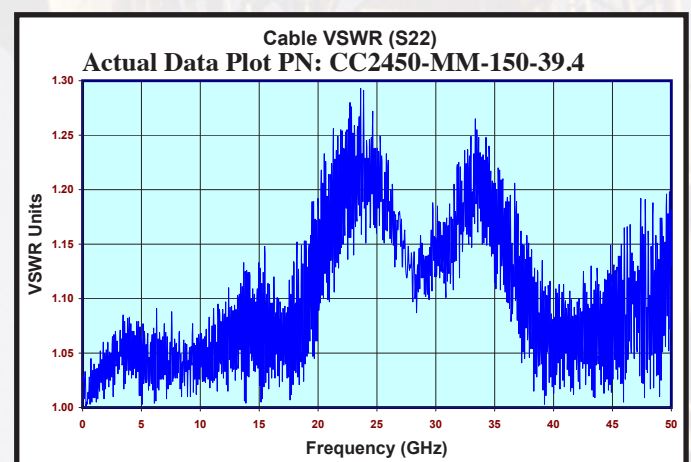
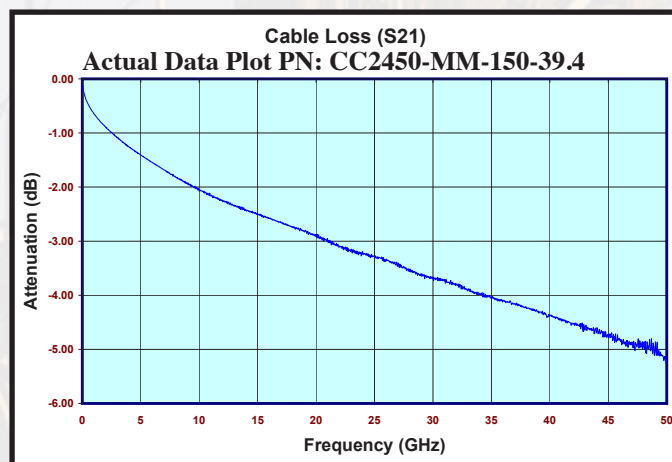
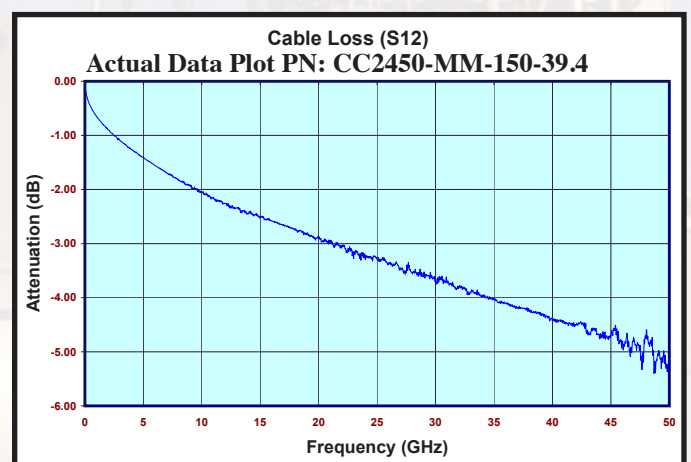
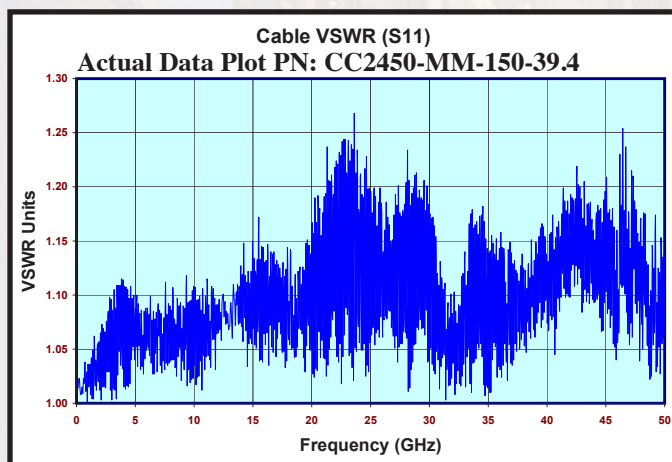
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Authorized Distributor

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