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MICROWAVE  
A DIVISION OF CRYSTEK CORPORATION

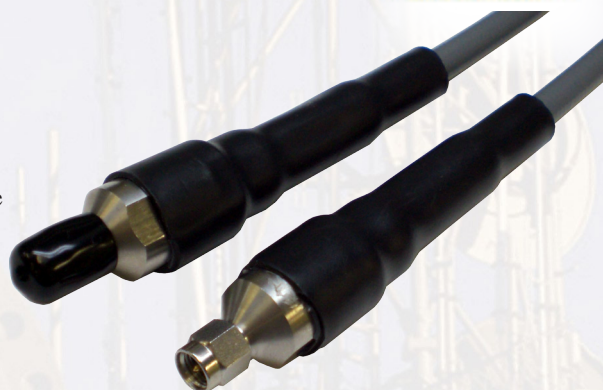
## 18 GHZ LOW LOSS RF COAX CABLE ASSEMBLIES WITH STAINLESS STEEL CONNECTORS

### LL335 50 Ohm 18 GHz Low Loss Coaxial Cables



#### Features:

|                               |                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Strain Relief:</b>         | Heavy duty adhesive strain relief with Neoprene jacket                                             |
| <b>Center Conductor:</b>      | Solid silver-plated copper                                                                         |
| <b>Inner Braid:</b>           | Flat silver-plated copper strip                                                                    |
| <b>Outer Braid:</b>           | Round silver-plated copper braid                                                                   |
| <b>Dielectric:</b>            | Expanded PTFE (Polytetrafluoroethylene) tape                                                       |
| <b>Jacket:</b>                | FEP (Fluorinated ethylene propylene)                                                               |
| <b>Cable Outer Diameter:</b>  | 0.293" (7.44mm)                                                                                    |
| <b>Connectors:</b>            | SST, corrosion-resistant 303 stainless steel 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> | -45°C to +85°C                                                                                     |
| <b>Minimum Bend Radius:</b>   | 1.5"                                                                                               |



#### *Custom Lengths Available*

##### Available Connector Terminations:

SMA Male  
Type N Male  
Type N Bulkhead Female  
Type N Male Right Angle  
TNC Male



#### **Connector Corrosion (salt spray):**

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

#### **Connector Durability:**

500 connections Minimum

#### **Electrical Specifications:**

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Impedance:</b>               | 50 Ohms                      |
| <b>Frequency:</b>               | Up to 18 GHz                 |
| <b>Insertion Loss:</b>          | <0.22 dB/ft at 18GHz         |
| <b>VSWR: (SMA Conn.)</b>        | <1.30 to 18 GHz              |
| <b>(N-Type Conn.)</b>           | <1.35 to 18 GHz              |
| <b>Nominal Capacitance:</b>     | 24 pF/ft                     |
| <b>Velocity of Propagation:</b> | 85%                          |
| <b>Shield Effectiveness:</b>    | Greater than 100 dB          |
| <b>Attenuation (dB/ft):</b>     | 0.03 Typical @ 500 MHz       |
|                                 | *connector loss not included |
|                                 | 0.045 Typical @ 1 GHz        |
|                                 | 0.08 Typical @ 3 GHz         |
|                                 | 0.11 Typical @ 6 GHz         |
|                                 | 0.16 Typical @ 12 GHz        |
|                                 | 0.20 Typical @ 18 GHz        |
| <b>Avg Power in (Kwatts):</b>   | 7.90 @ 500 MHz               |
|                                 | *Rating of Actual Cable only |
|                                 | 5.47 @ 1 GHz                 |
|                                 | *specified at 25°C/Sea Level |
|                                 | 3.00 @ 3 GHz                 |
|                                 | 2.02 @ 6 GHz                 |
|                                 | 1.33 @ 12 GHz                |
|                                 | 1.04 @ 18 GHz                |

| Part Number       | Description                                                    | Length |
|-------------------|----------------------------------------------------------------|--------|
| CCSMA-MM-LL335-36 | LL335 Low Loss Coax Cable, SMA Male/Male, Straight/Straight    | 36"    |
| CCSMA-MM-LL335-48 | LL335 Low Loss Coax Cable, SMA Male/Male, Straight/Straight    | 48"    |
| CCSMA-MM-LL335-60 | LL335 Low Loss Coax Cable, SMA Male/Male, Straight/Straight    | 60"    |
| CCN-MM-LL335-36   | LL335 Low Loss Coax Cable, N-Type Male/Male, Straight/Straight | 36"    |
| CCN-MM-LL335-48   | LL335 Low Loss Coax Cable, N-Type Male/Male, Straight/Straight | 48"    |
| CCN-MM-LL335-60   | LL335 Low Loss Coax Cable, N-Type Male/Male, Straight/Straight | 60"    |



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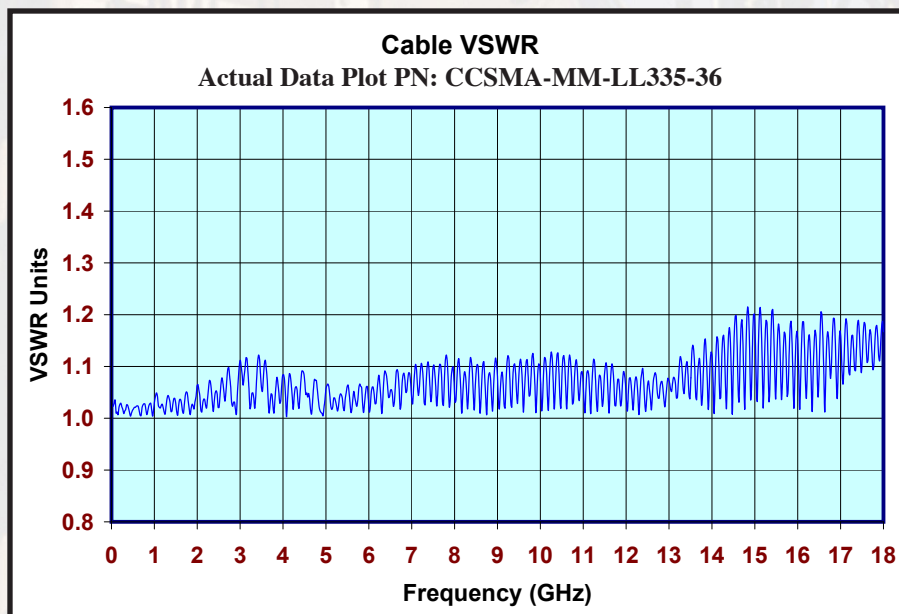
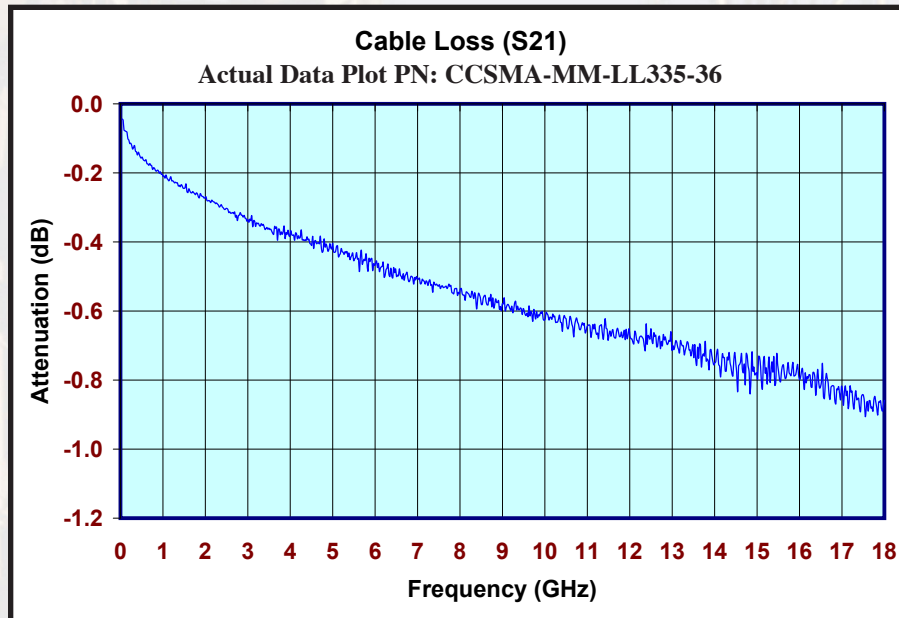
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FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 06-11-14



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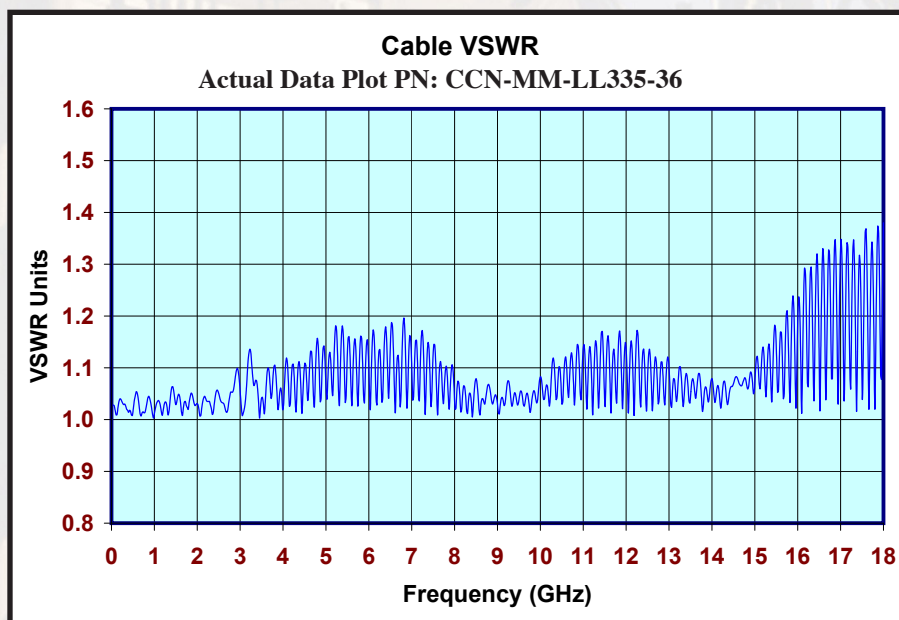
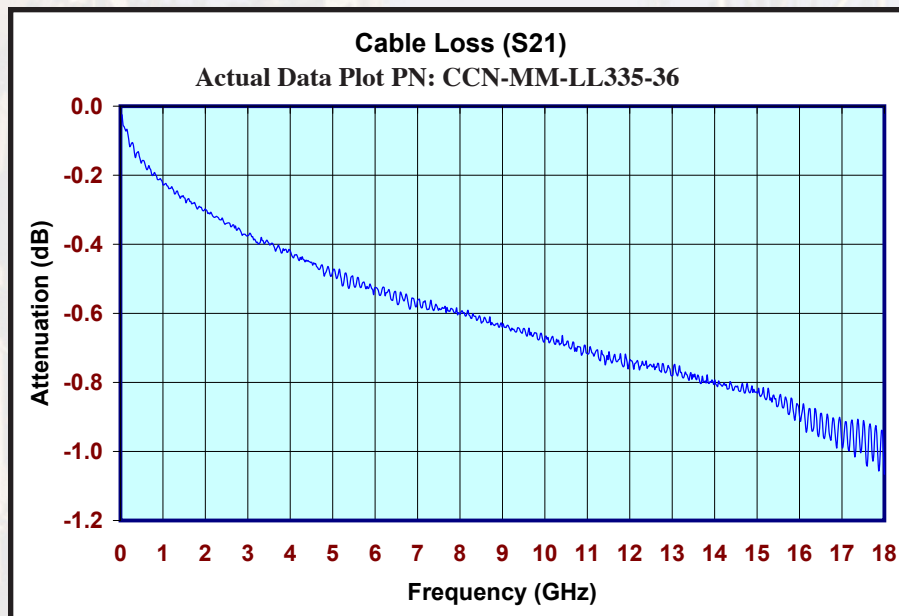
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