



# CRYSTEK

## 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:**

- Strain Relief:** Heavy duty adhesive strain relief with Neoprene jacket
- Center Conductor:** Solid silver-plated copper
- Inner Braid:** Flat silver-plated copper strip
- Outer Braid:** Round silver-plated copper braid
- Dielectric:** Expanded PTFE (Polytetrafluoroethylene) tape
- Jacket:** FEP (Fluorinated ethylene propylene)
- Cable Outer Diameter:** 0.293" (7.44mm)
- 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:** -45°C to +85°C
- Minimum Bend Radius:** 1.5"



**Custom Lengths Available**

Available Connector Terminations:

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



**Electrical Specifications:**

- Impedance:** 50 Ohms
- Frequency:** Up to 18 GHz
- Insertion Loss:** <0.22 dB/ft at 18GHz
- VSWR:** 1:1.3 Typical  
1:1.4 Max
- Nominal Capacitance:** 24 pF/ft
- Velocity of Propagation:** 85%
- Shield Effectiveness:** Greater than 100 dB
- Attenuation (dB/ft):** 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
- Avg Power in (Kwatts):** 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

**Connector Corrosion (salt spray):**

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

**Connector Durability:**

500 connections Minimum

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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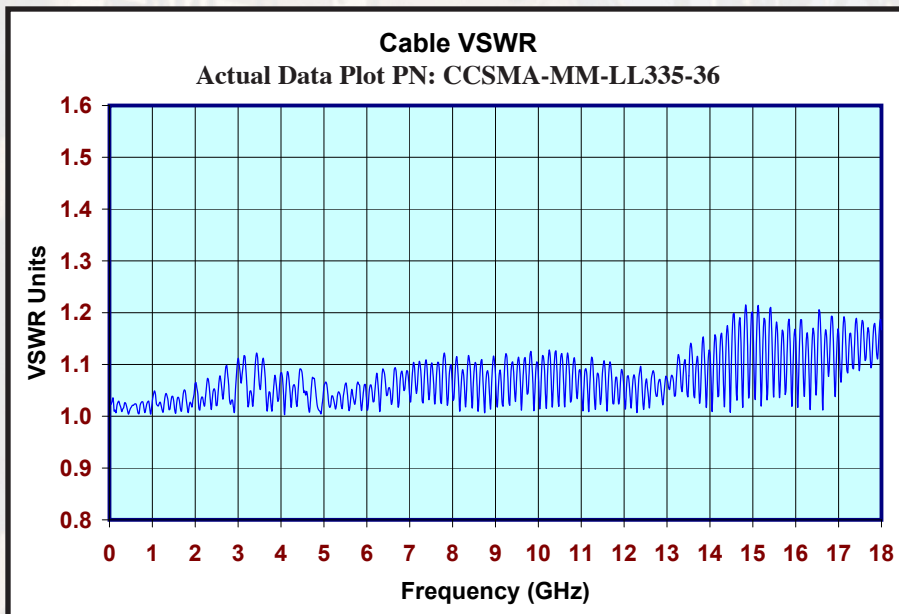
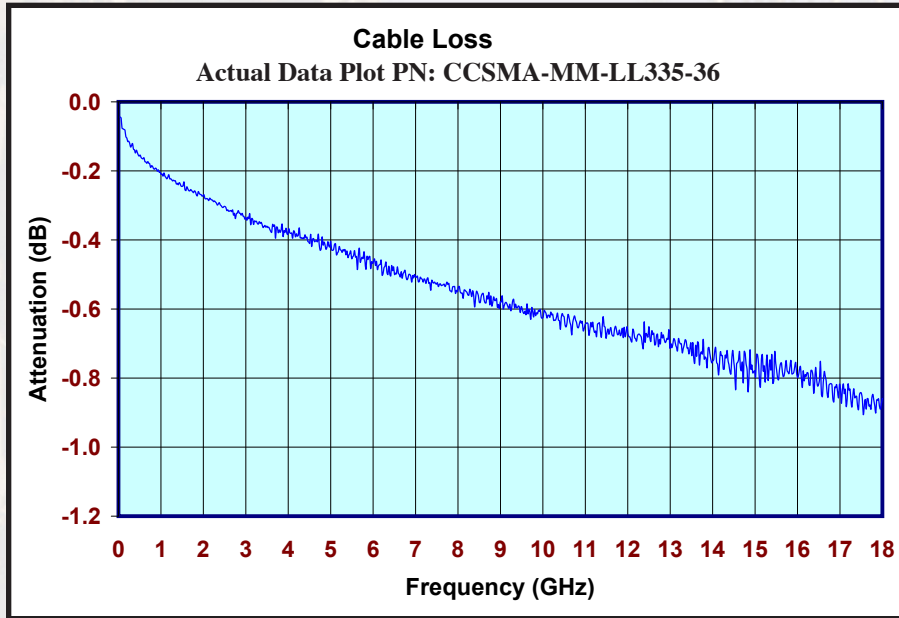
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