



# CRYSTEK

## MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

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



## LL142 50 Ohm 18 GHz Low Loss Coaxial Cables

### Features:

- Strain Relief:** Heavy duty adhesive strain relief with Neoprene jacket
- Center Conductor:** SPCCS (Silver-Plated Copper Solid)
- First Shield:** Flat silver-plated copper braid
- Second Shield:** High temp. aluminum polyimide foil
- Third Shield:** Round silver-plated copper braid
- Dielectric:** Expanded PTFE (Polytetrafluoroethylene)
- Jacket:** ETFE (Ethylene Tetrafluoroethylene Copolymer)
- Cable Outer Diameter:** 0.208" (5.28mm)
- 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:** Blue
- Operating Temperature:** -40°C to +85°C

**Minimum Bend Radius:** 0.8"

### Available Connector Terminations:

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

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

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

### **Connector Durability:**

500 connections Minimum

### **SMA / SMA [Straight/Straight]**

Part Number	Description	Length
CCSMA-MM-LL142-12	LL142 Low Loss Coax Cable, SMA Male/Male, Straight/Straight	12"
CCSMA-MM-LL142-24	LL142 Low Loss Coax Cable, SMA Male/Male, Straight/Straight	24"
CCSMA-MM-LL142-36	LL142 Low Loss Coax Cable, SMA Male/Male, Straight/Straight	36"
CCSMA-MM-LL142-48	LL142 Low Loss Coax Cable, SMA Male/Male, Straight/Straight	48"

### Electrical Specifications:

- Impedance:** 50 Ohms
- Frequency:** Up to 18 GHz
- Insertion Loss:** 0.41 dB/ft Typ at 18 GHz
- VSWR: (SMA)** <1.30 to 18 GHz
- (N,TNC)** <1.35 to 18 GHz
- Nominal Capacitance:** 26 pF/ft
- Velocity of Propagation:** 78%
- Shield Effectiveness:** Greater than 90 dB
- Attenuation (dB/ft):** 0.05 Typical at 500 MHz
- \*connector loss not included* 0.08 Typical at 1 GHz
- 0.14 Typical at 3 GHz
- 0.21 Typical at 6 GHz
- 0.32 Typical at 12 GHz
- 0.41 Typical at 18 GHz
- Max Power in (Watts):** 2800 @ 500 MHz
- \*as specified at 25°C* 1960 @ 1 GHz
- 1100 @ 3 GHz
- 760 @ 6 GHz
- 520 @ 12 GHz
- 370 @ 18 GHz

*Custom Lengths Available*



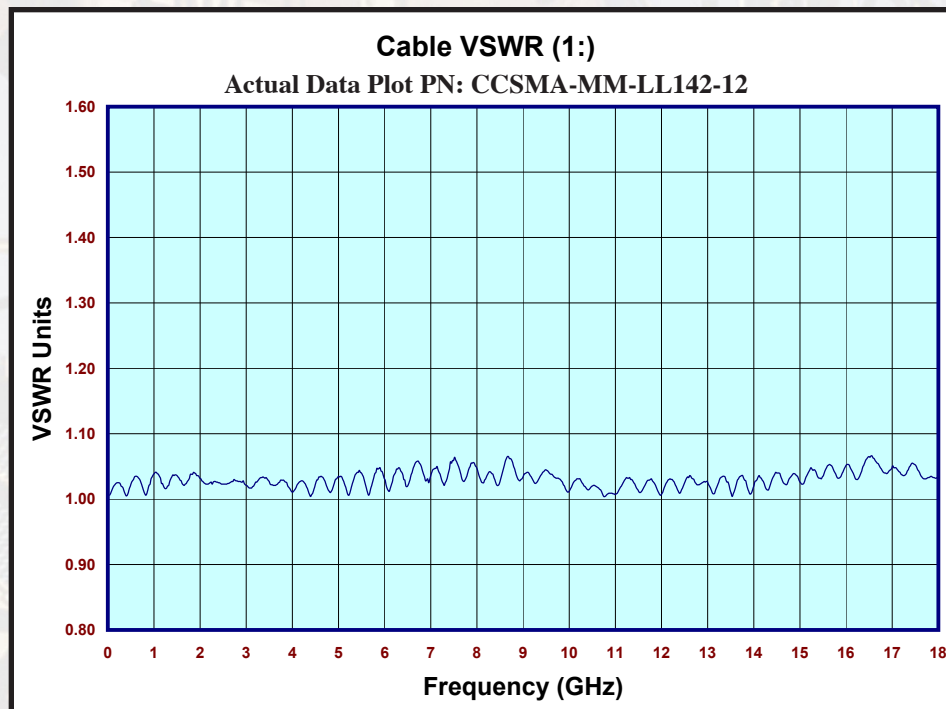
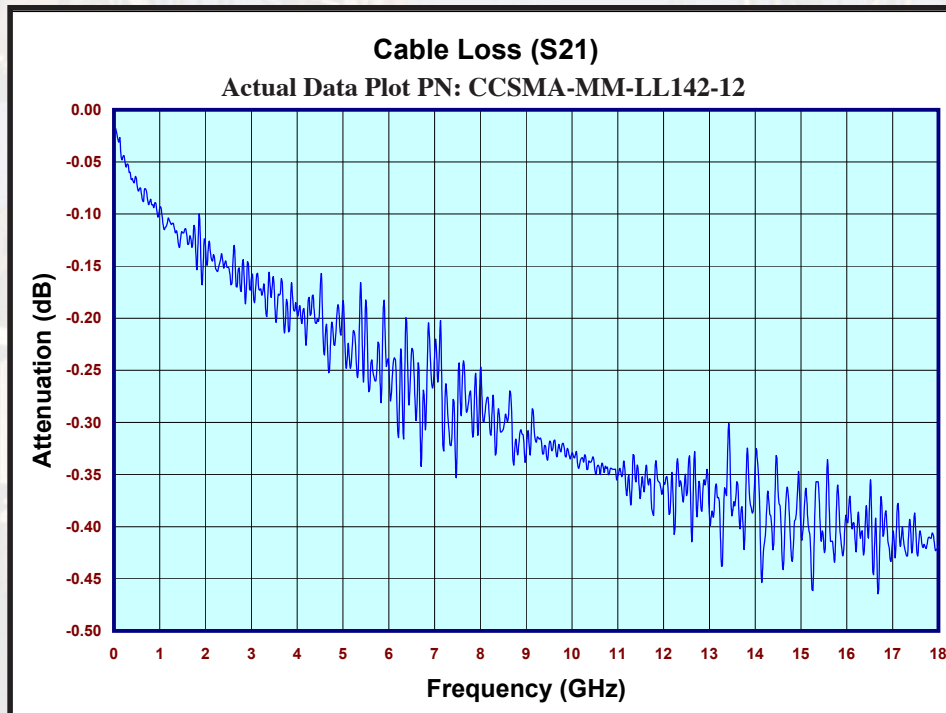
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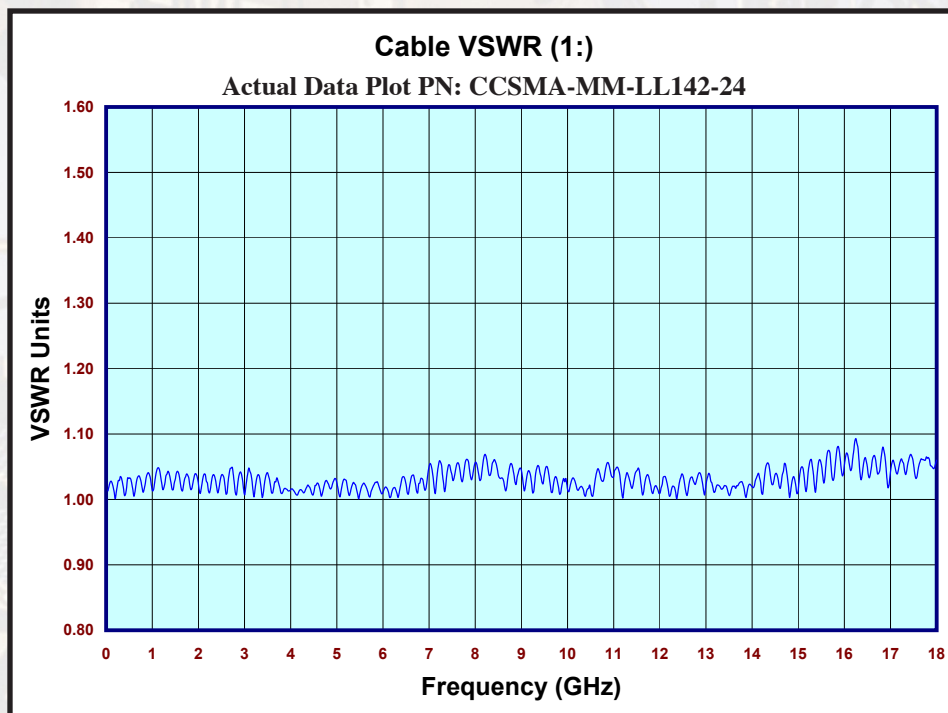
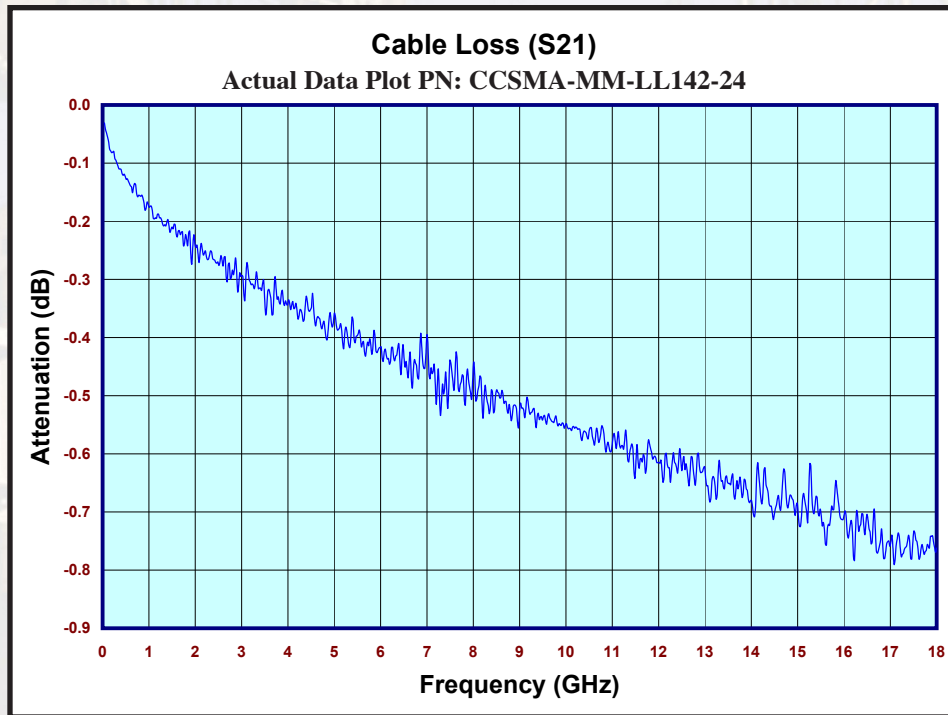
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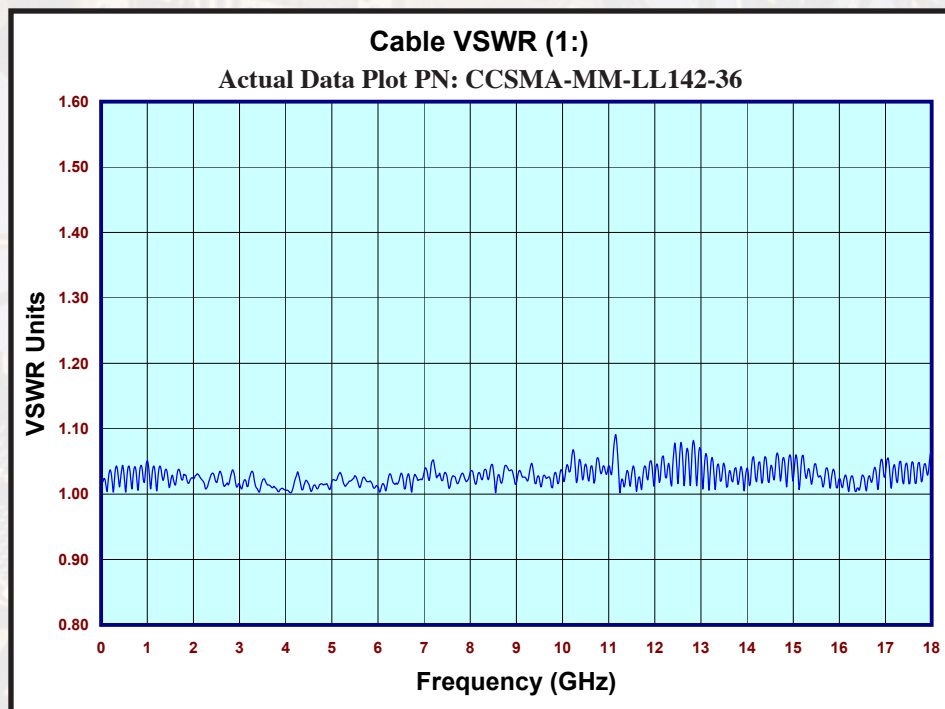
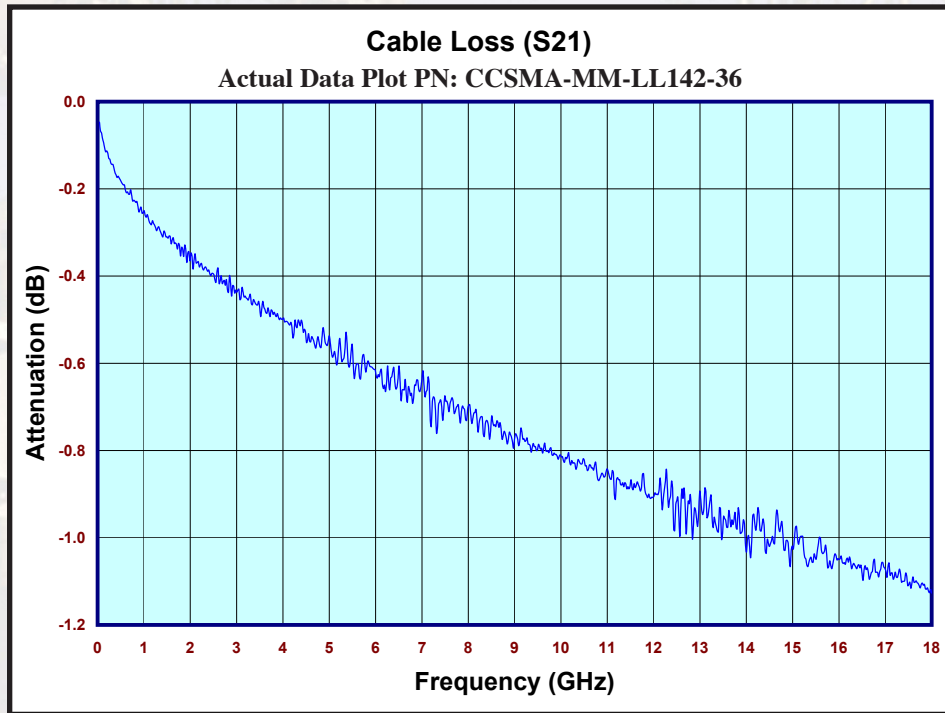
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