



**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

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



## LL142 50 Ohm 18GHz Low Loss Coaxial Cables

### Features:

- Strain Relief:** Heavy duty adhesive strain relief with Neoprene jacket.
- Center Conductor:** Silver-plated Solid Copper
- First Shield:** Flat Silver Plated Copper Braid
- Second Shield:** High Temp. Aluminum Polimide Foil
- Third Shield:** Round Silver Plated Copper Braid
- Dielectric:** Expanded PTFE (Polytetrafluoroethylene)
- Jacket:** ETFE
- Cable Outer Dia.** 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:** -55°C to +85°C (Also available in -55°C to +125°C)

**Minimum Bend Radius:** 0.8"

*Custom Lengths Available*

### 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 Min.

### **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:** 0.37 dB/ft Typ. at 18GHz
- VSWR:** <1.3 to 18GHz
- Nominal Capacitance:** 26 pF/ft
- Velocity of Propagation:** 78%
- RF Shielding:** < -90 dB
- Attenuation (dB/ft):** 0.05 Typ. at 500MHz  
 \*connector loss not included 0.08 Typ. at 1GHz  
 0.14 Typ. at 3GHz  
 0.21 Typ at 6GHz  
 0.32 Typ at 12GHz  
 0.41 Typ at 18GHz

### **Max Power in (Watts):**

- 2800 @ 500MHz
- \*as specified at 25°C 1960 @ 1GHz
- 1100 @ 3GHz
- 760 @ 6GHz
- 520 @ 12GHz
- 370 @ 18GHz



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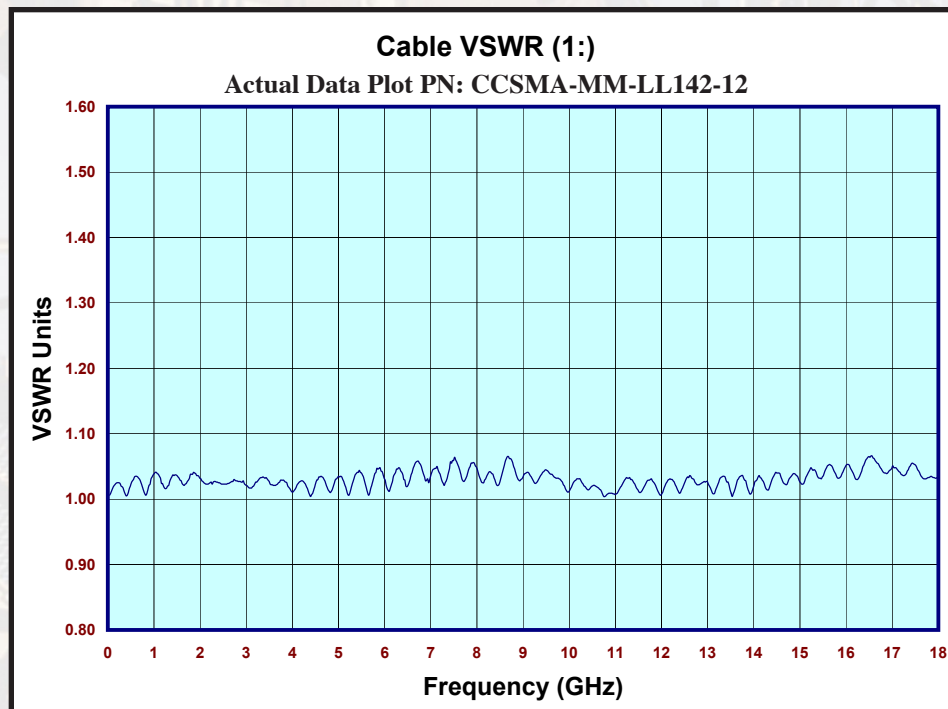
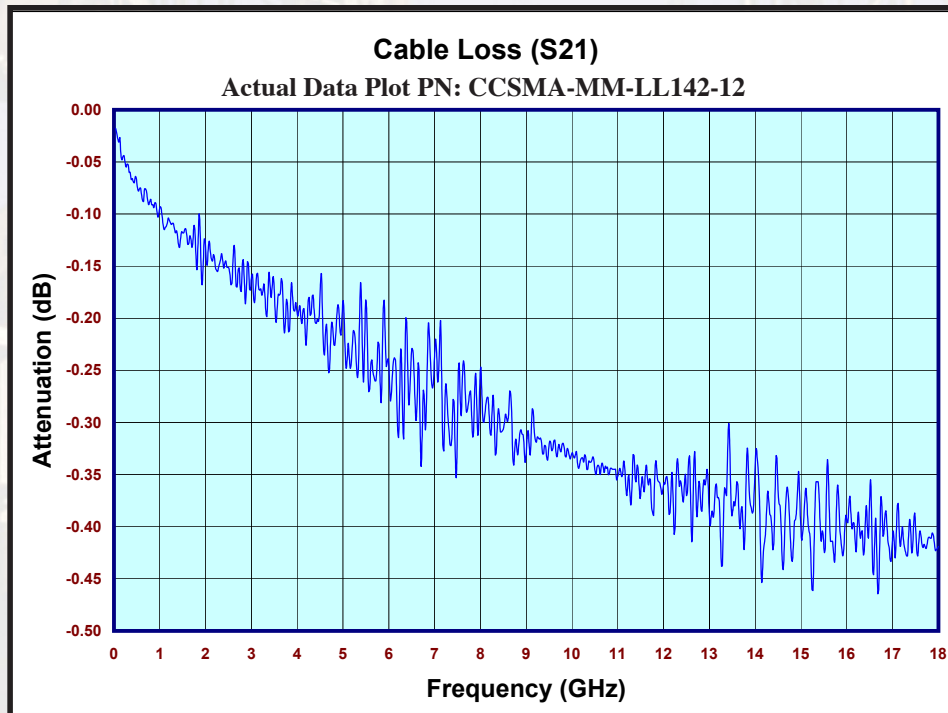
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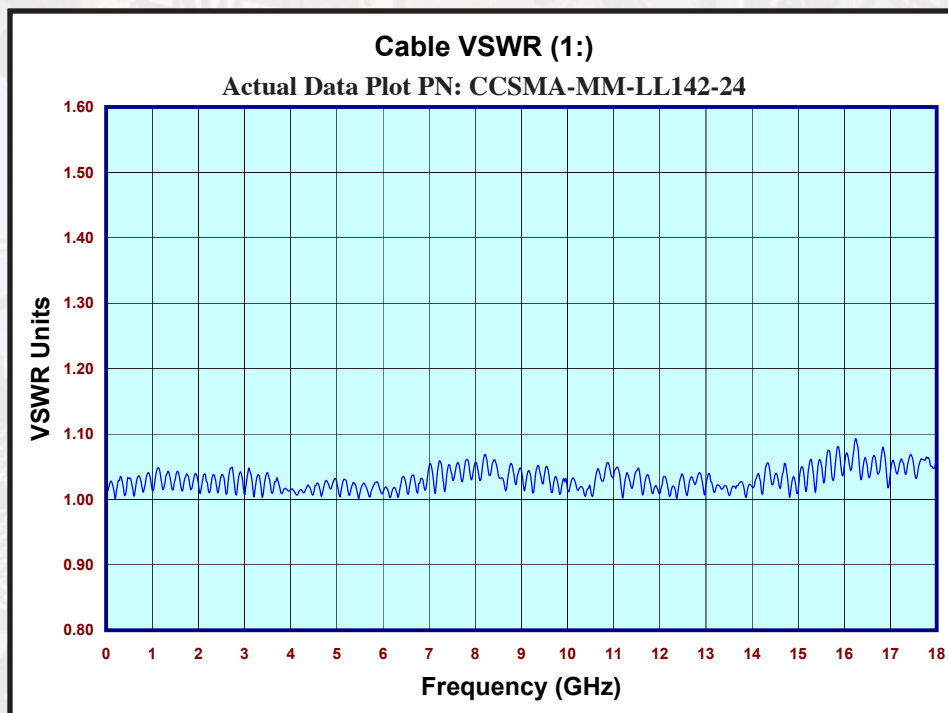
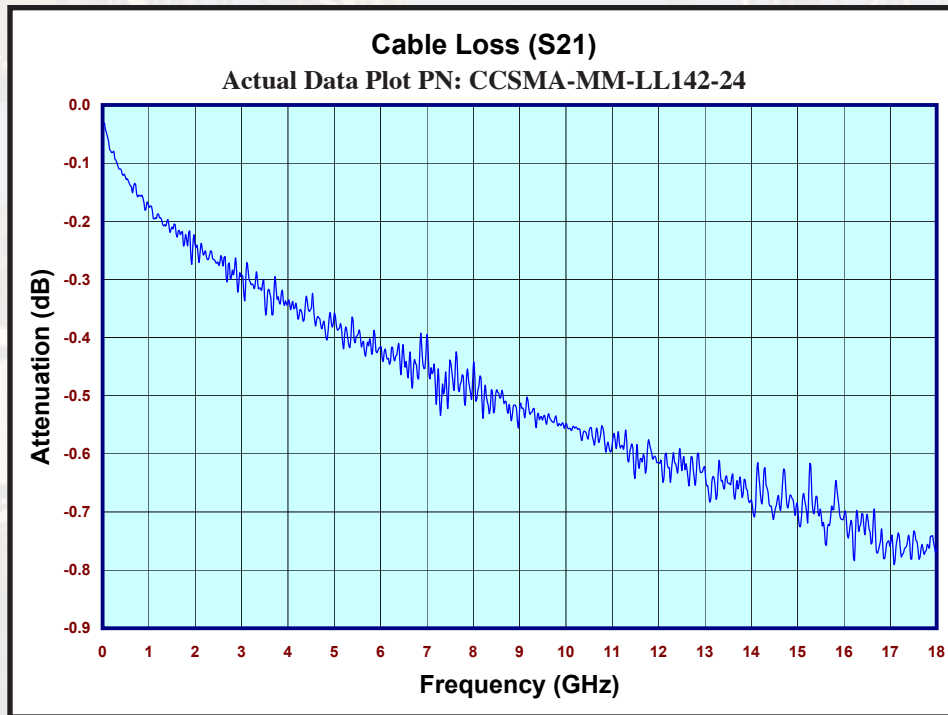
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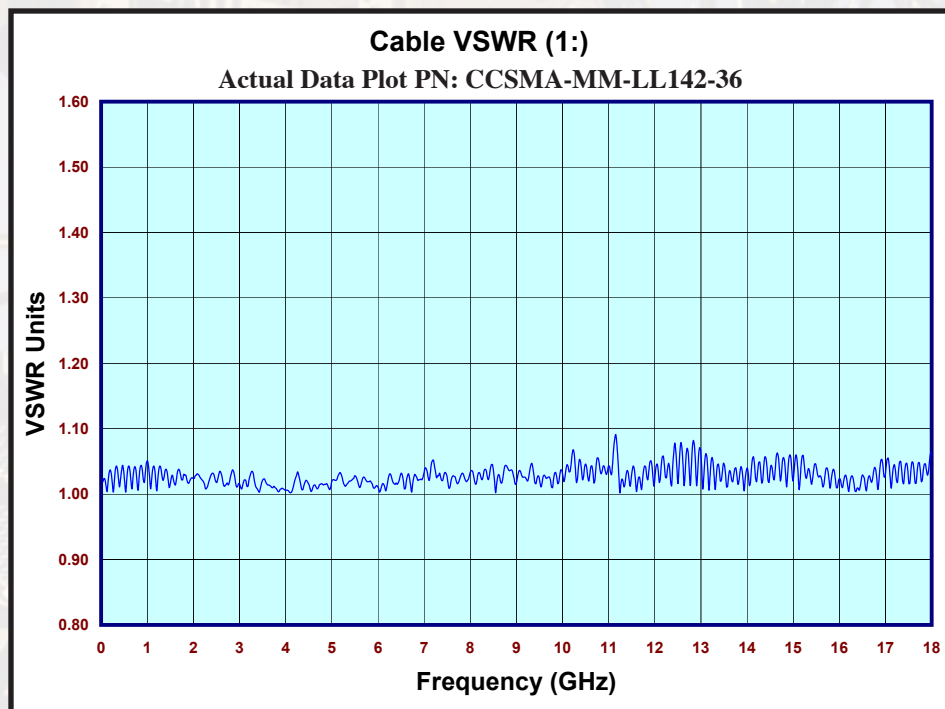
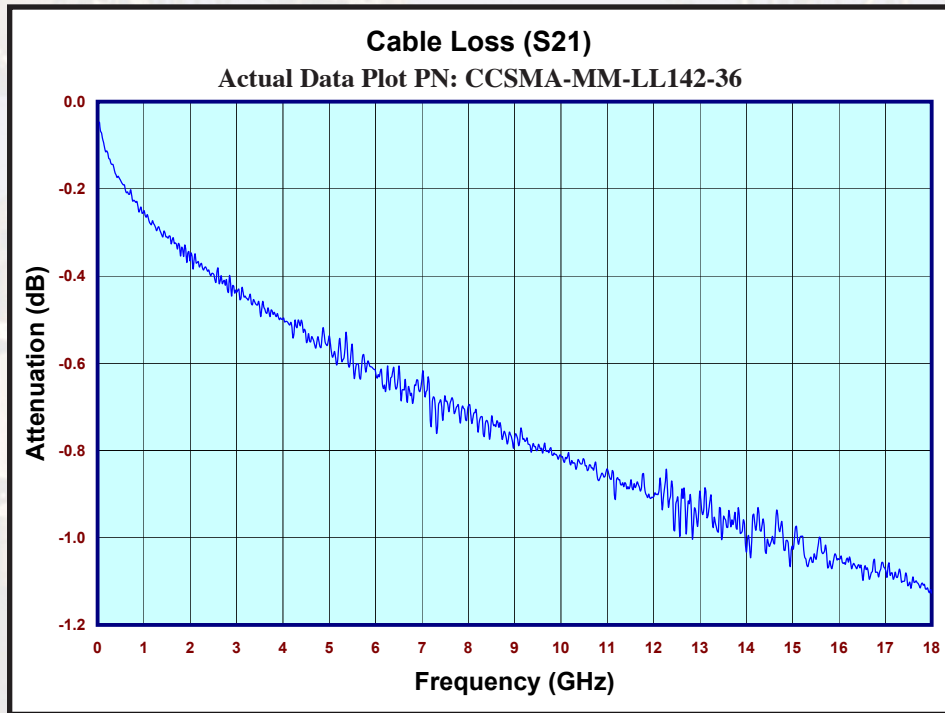
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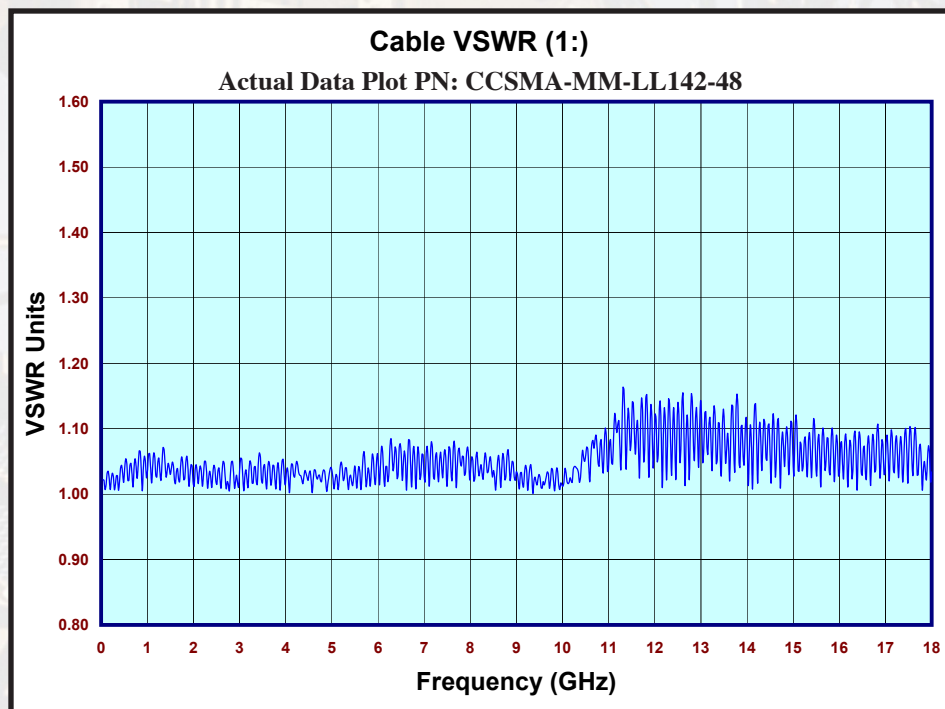
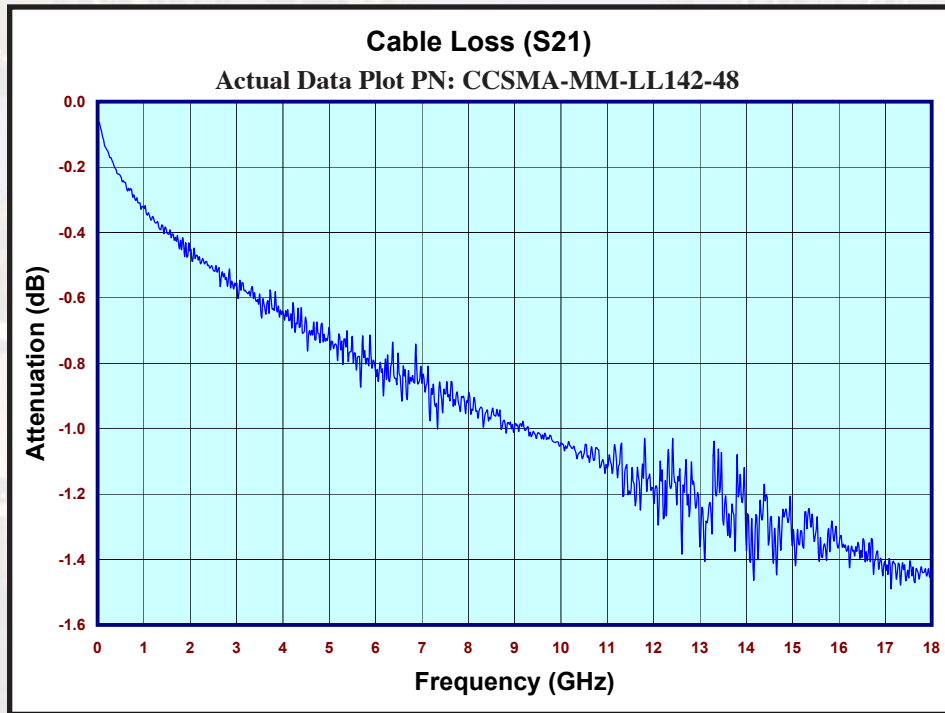
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