



# 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  
0.20 Typ at 6GHz  
0.30 Typ at 12GHz  
0.37 Typ at 18GHz

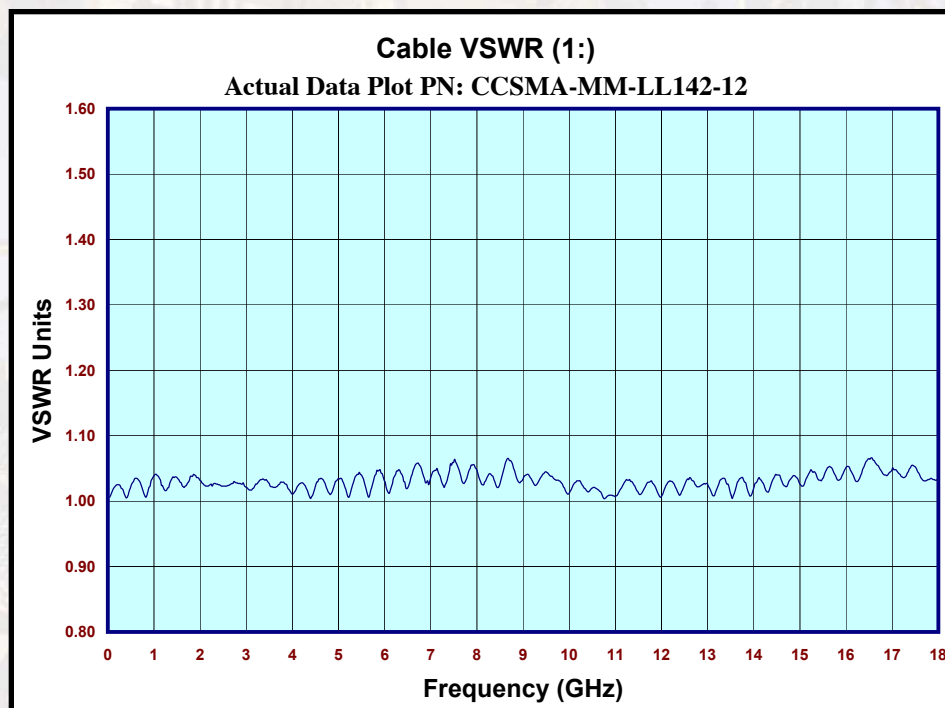
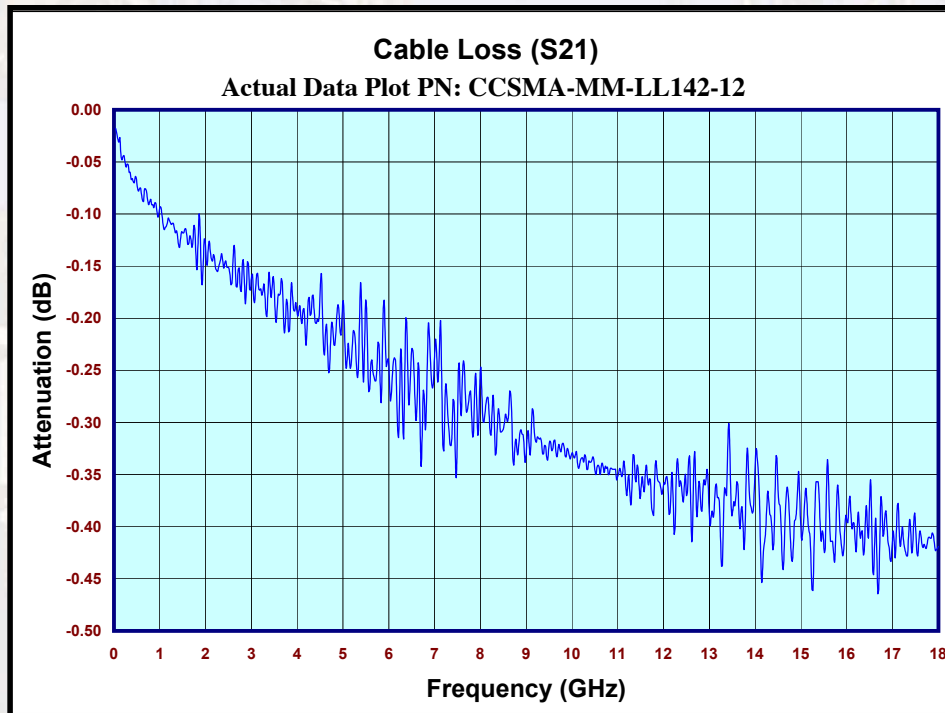
**Max Power in (Watts):** 2800 @ 500MHz  
\*as specified at 25°C 1960 @ 1GHz  
1100 @ 3GHz  
760 @ 6GHz  
520 @ 12GHz  
510 @ 12GHz





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A DIVISION OF CRYSTEK CORPORATION

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PHONE: 239-561-3311 • 800-237-3061 Rev.: F

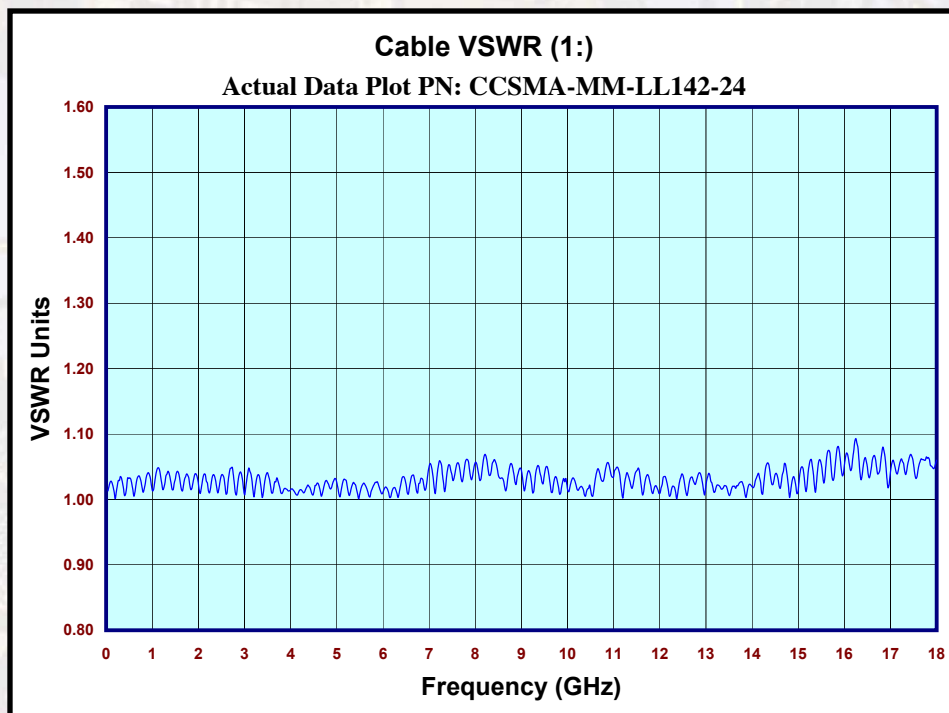
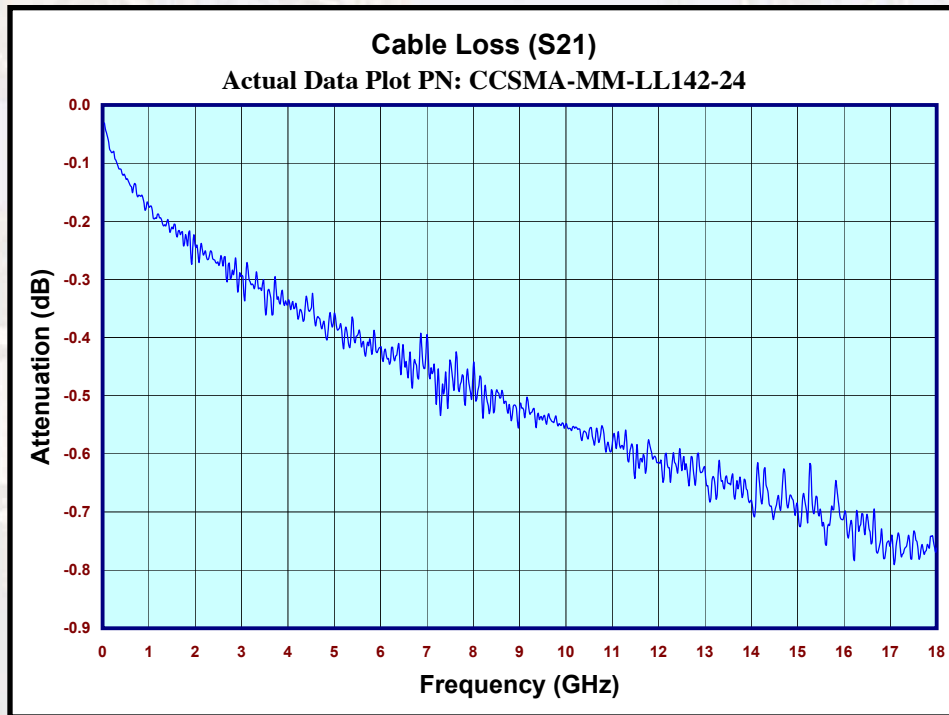
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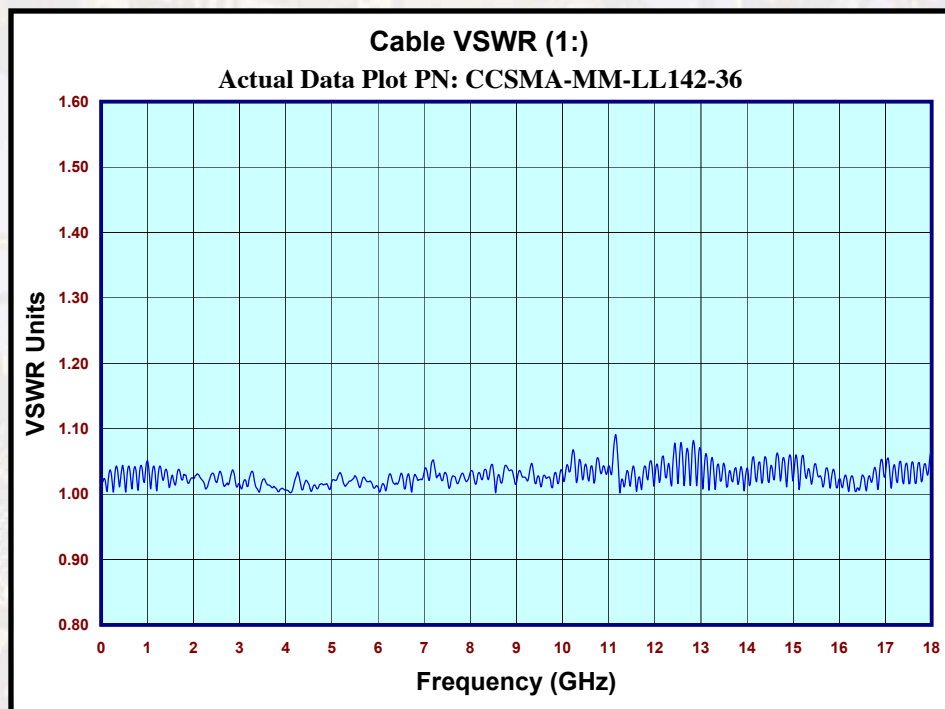
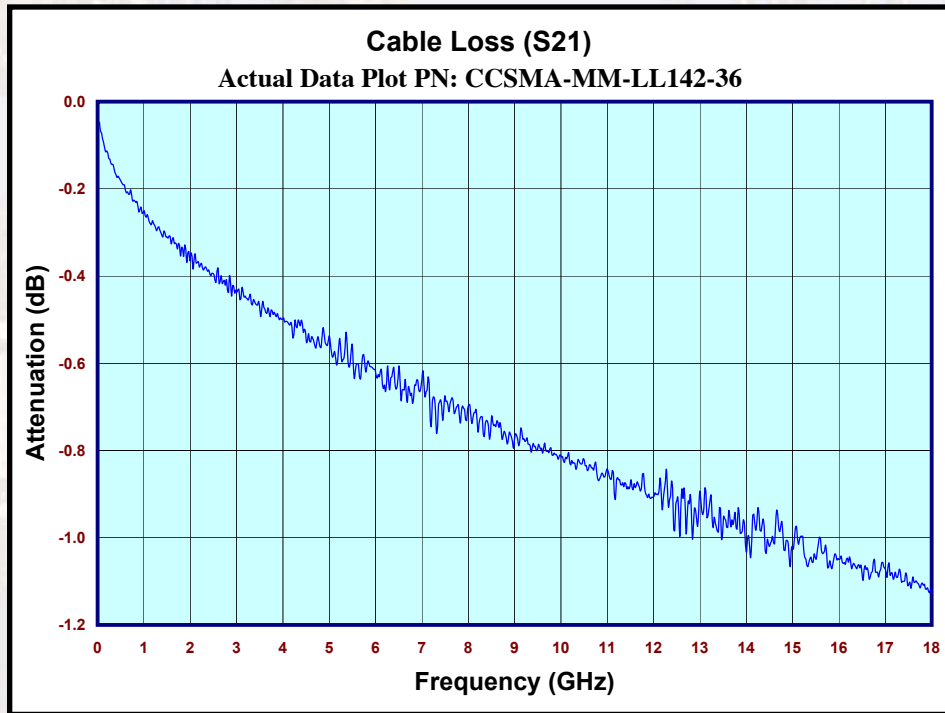
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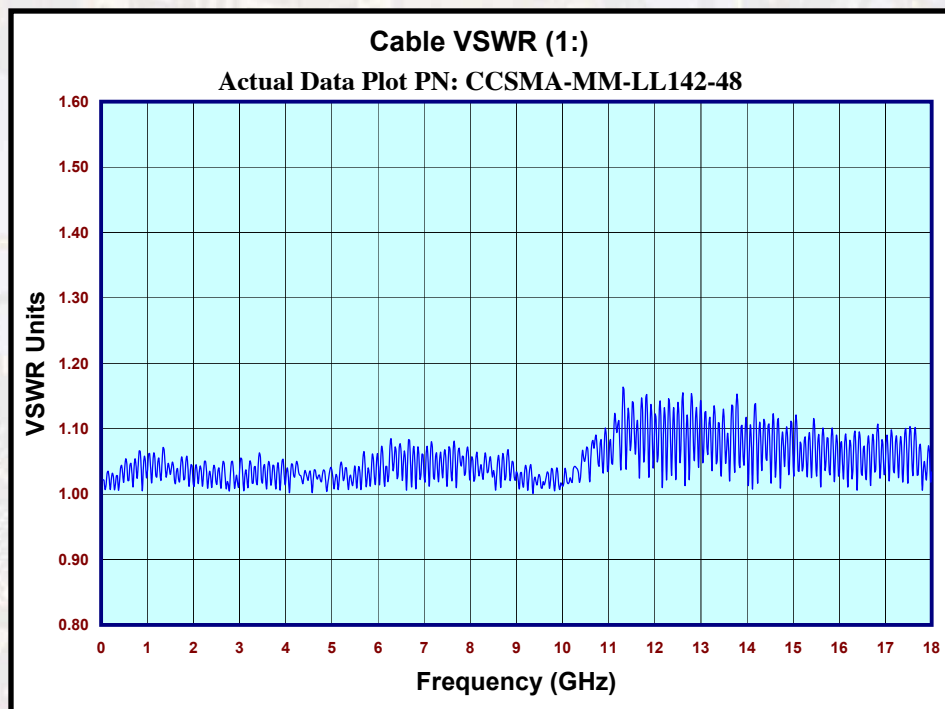
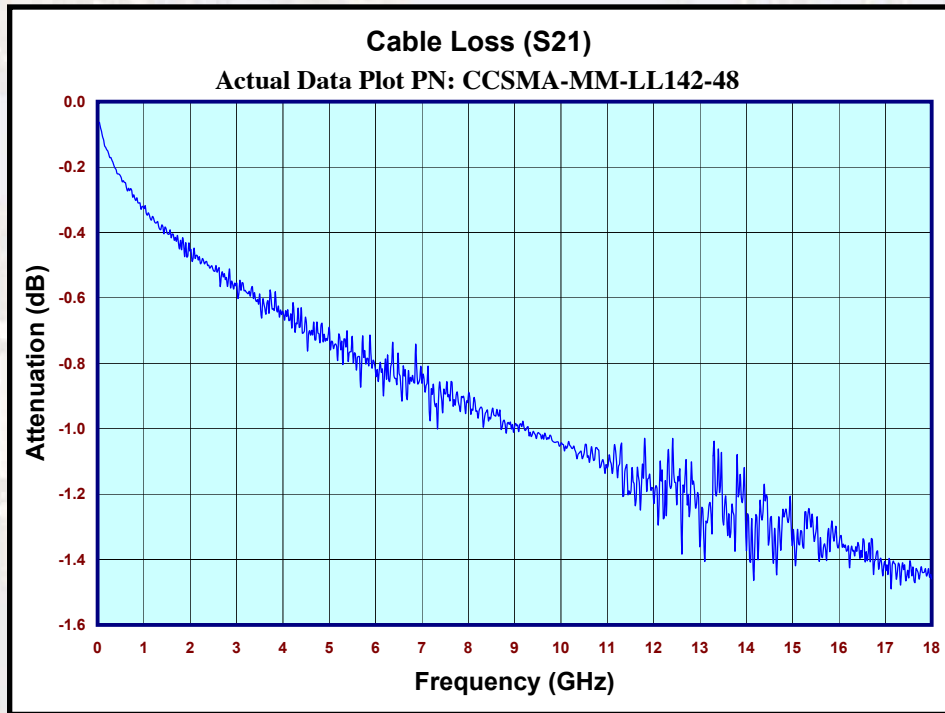
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