



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



## Armored 50 Ohm 18GHz Low Loss Coaxial Cables

### Features:

**Strain Relief:** Heavy duty adhesive strain relief with Neoprene jacket.

**Center Conductor:** SPCCS (Silver-plated copper clad solid)

**Inner Braid:** Flat Silver plated copper strip

**Outer Braid:** PC (Round Silver-plated copper braid)

**Dielectric:** Expanded PTFE (Polytetrafluoroethylene) tape

**Cable Jacket:** FEP (Fluorinated Ethylene Propylene)

**Connectors:** SST, corrosion-resistant 303 stainless steel per ASTM-A582 (Passivated finish per SAE-AMS-2700)

**Center Pin:** GPBC ( Gold-plated beryllium copper)

**Armor Outer Dia.** 0.355 (9.02mm) Max

**Armor:** Type 302 Stainless Steel, Fully Interlocking

**Operating Temperature:** -55°C to +85°C (Also available in -55°C to +125°C)

**Minimum Bend Radius:** 1.5"

**Crush Resistance:** Compress OD by 0.003" 1930 lbs. using 3" plate

*Custom Lengths Available*

### Available Connector Terminations:

SMA Male  
Type N Bulkhead Female  
TNC Male  
TNC Bulkhead Female

### **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
CCASMA-MM-LL142-24	Armored LL142 Low Loss Coax Cable, SMA Male/Male	24"
CCASMA-MM-LL142-36	Armored LL142 Low Loss Coax Cable, SMA Male/Male	36"
CCASMA-MM-LL142-48	Armored LL142 Low Loss Coax Cable, SMA Male/Male	48"
CCASMA-MM-LL142-60	Armored LL142 Low Loss Coax Cable, SMA Male/Male	60"

### Electrical Specifications:

**Impedance:** 50 Ohms

**Frequency:** Up to 18 GHz

**Insertion Loss:** <0.36 dB/ft Typ. at 18GHz

**VSWR:** <1.3 to 18GHz

**Nominal Capacitance:** 29.4 pF/ft

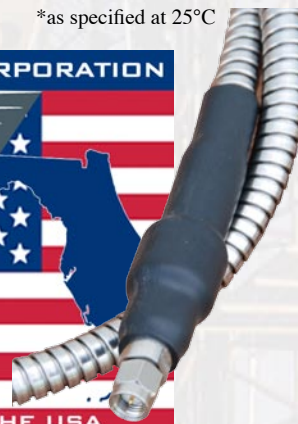
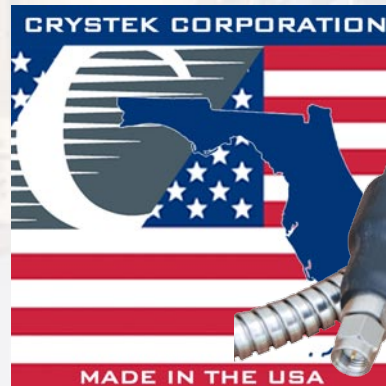
**Velocity of Propagation:** 70%

**RF Shielding:** < -110 dB

**Attenuation (dB/ft):** 0.05 Typ. at 400MHz  
0.08 Typ. at 1GHz  
0.11 Typ. at 2GHz  
0.14 Typ. at 3GHz  
0.18 Typ at 5GHz  
0.25 Typ at 10GHz  
0.36 Typ at 18GHz

**Max Power in (Watts):** 1200 @ 400MHz  
720 @ 1GHz  
400 @ 3GHz  
310 @ 5GHz  
220 @ 10GHz

\*as specified at 25°C



Note\*\* Cable is weather resistance with continuous neoprene jacket cover over armor.



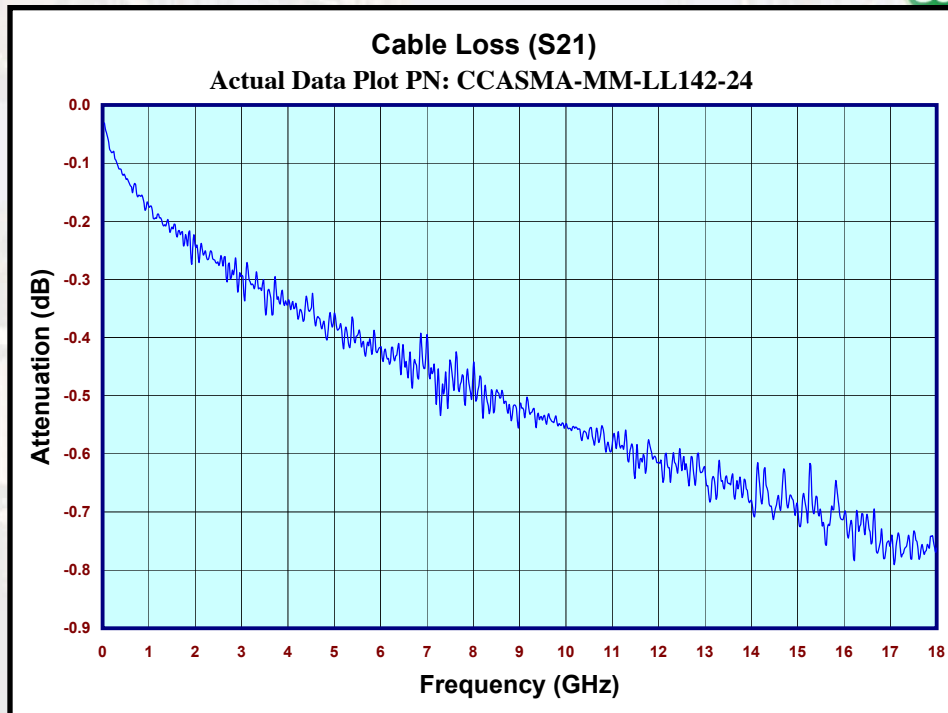
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Rev.: A  
Date: 08-02-10



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**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

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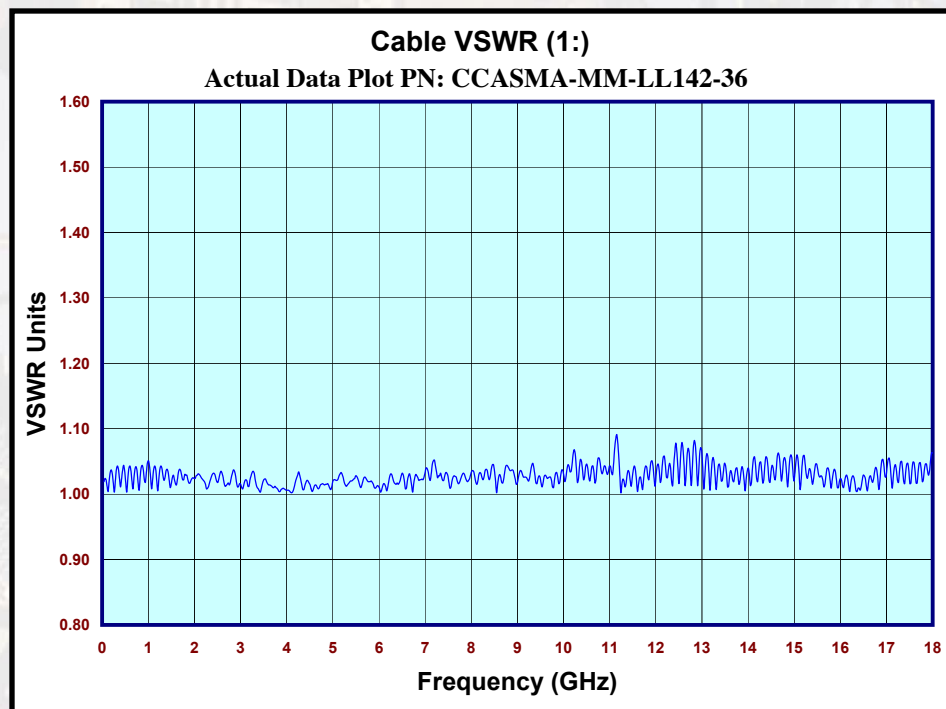
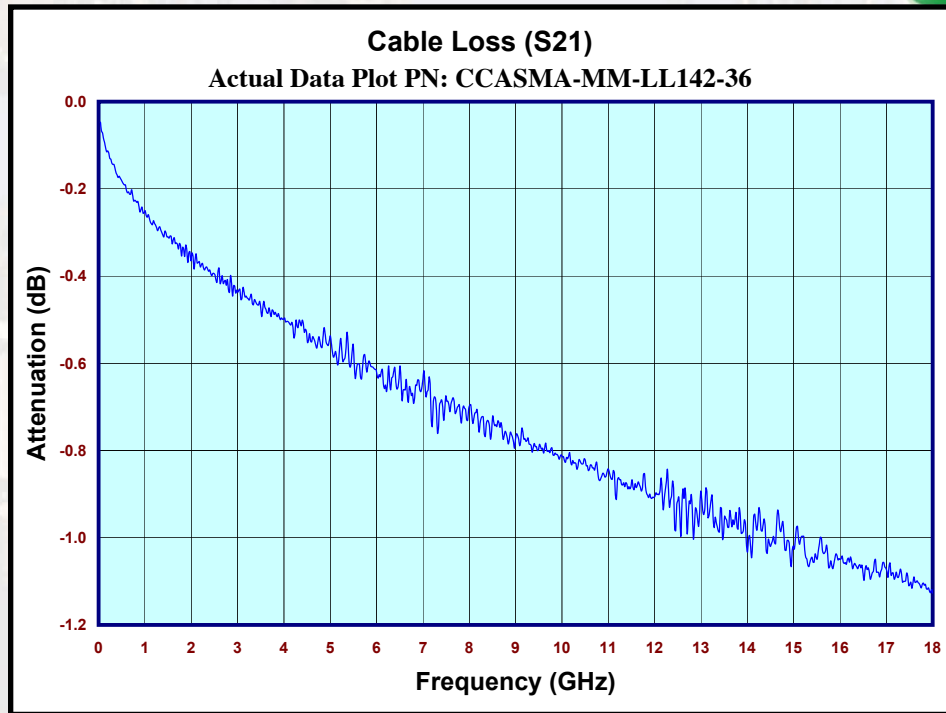
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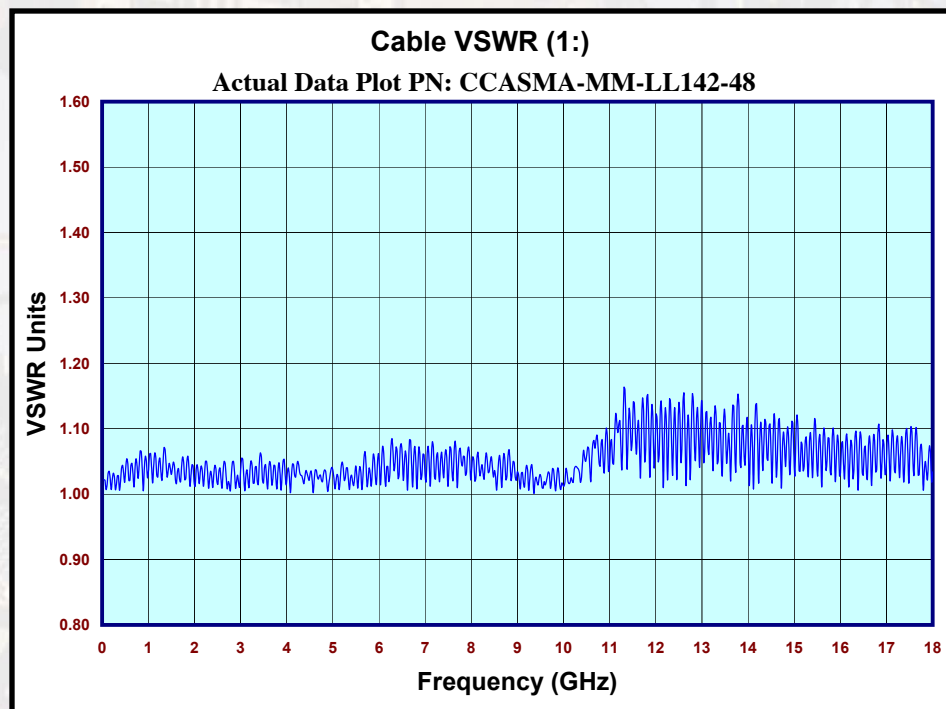
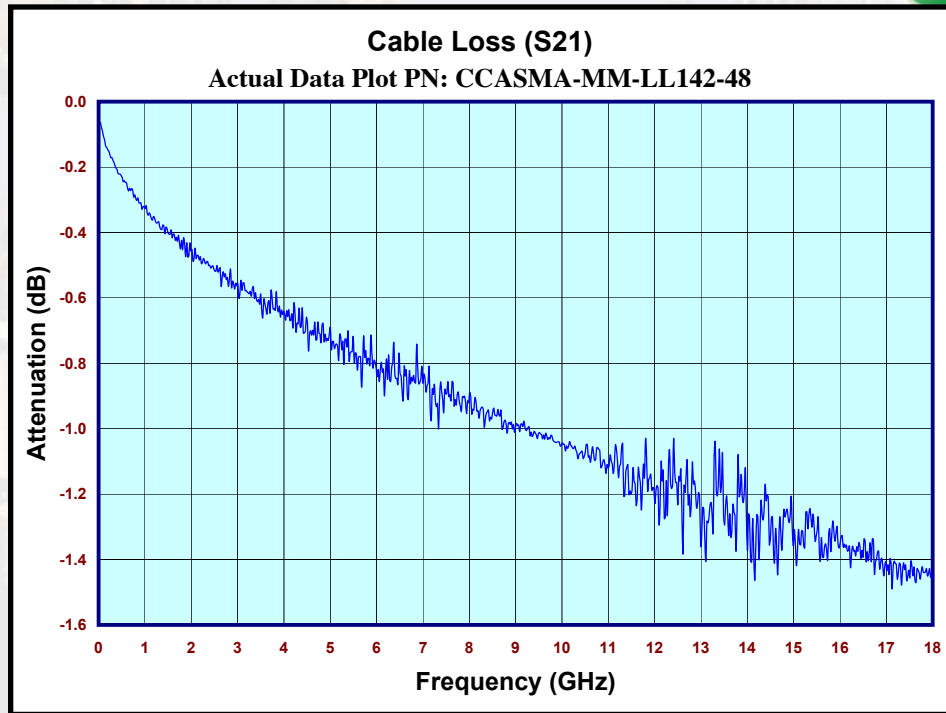
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