



# CRYSTEK MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

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



### Armored 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)
- Inner Shielding:** SS (Spiral Strip Of Silver-Plated Copper)
- Outer Braid:** SPC (Silver-Plated Copper Braid)
- Dielectric:** Expanded PTFE (Polytetrafluoroethylene)
- Cable Jacket:** ETFE (Ethylene Tetrafluoroethylene Copolymer)
- 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 Diameter:** 0.355" (9.02mm) Max
- Armor:** Type 302 Stainless Steel, Fully Interlocking
- Operating Temperature:** -40°C to +85°C
- Minimum Bend Radius:** 1.5"
- Crush Resistance:** Compress OD by 0.003" 1930 lbs. using 3" plate

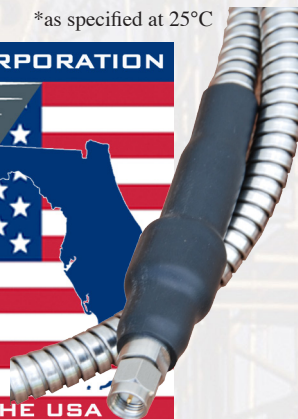
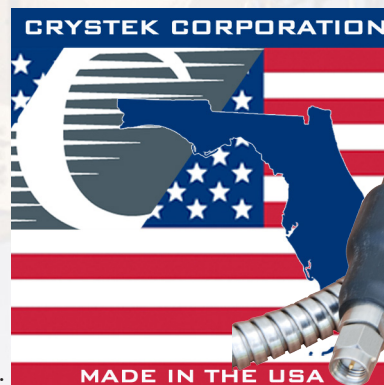
#### Electrical Specifications:

- 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-Type)** <1.35 to 18 GHz
- Nominal Capacitance:** 27 pF/ft
- Velocity of Propagation:** 78%
- Shield Effectiveness:** Greater than 90 dB
- Attenuation (dB/ft):** 0.05 Typical at 400 MHz  
0.08 Typical at 1 GHz  
0.11 Typical at 2 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

- 1960 @ 1 GHz
- 1100 @ 3 GHz
- 760 @ 6 GHz
- 520 @ 12 GHz
- 370 @ 18 GHz

\*as specified at 25°C



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

Custom Lengths Available

#### Available Connector Terminations:

- SMA Male
- TNC Male

#### 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
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"



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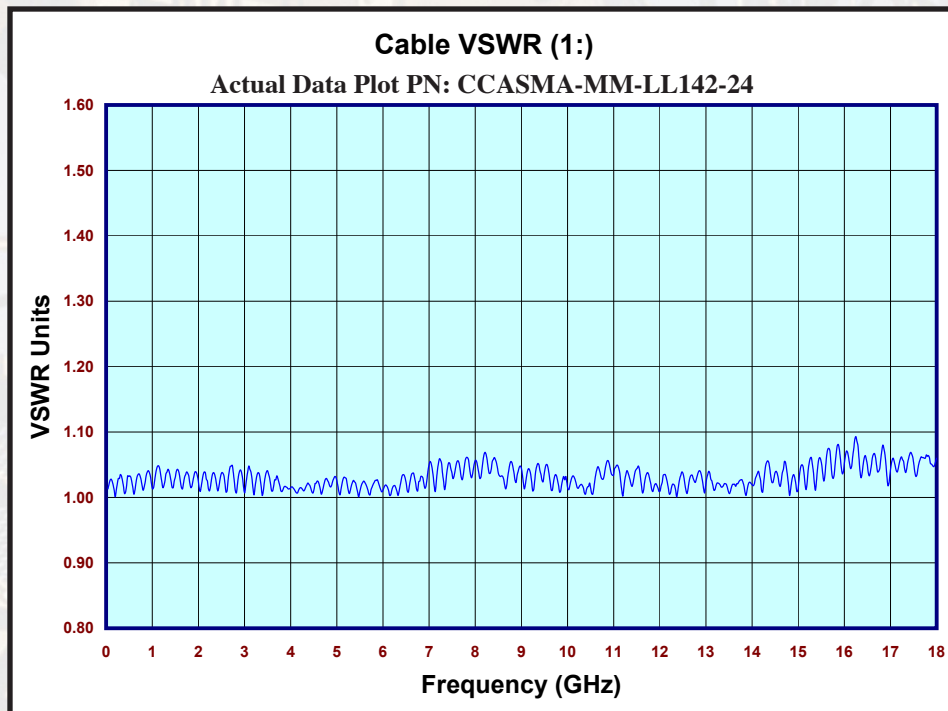
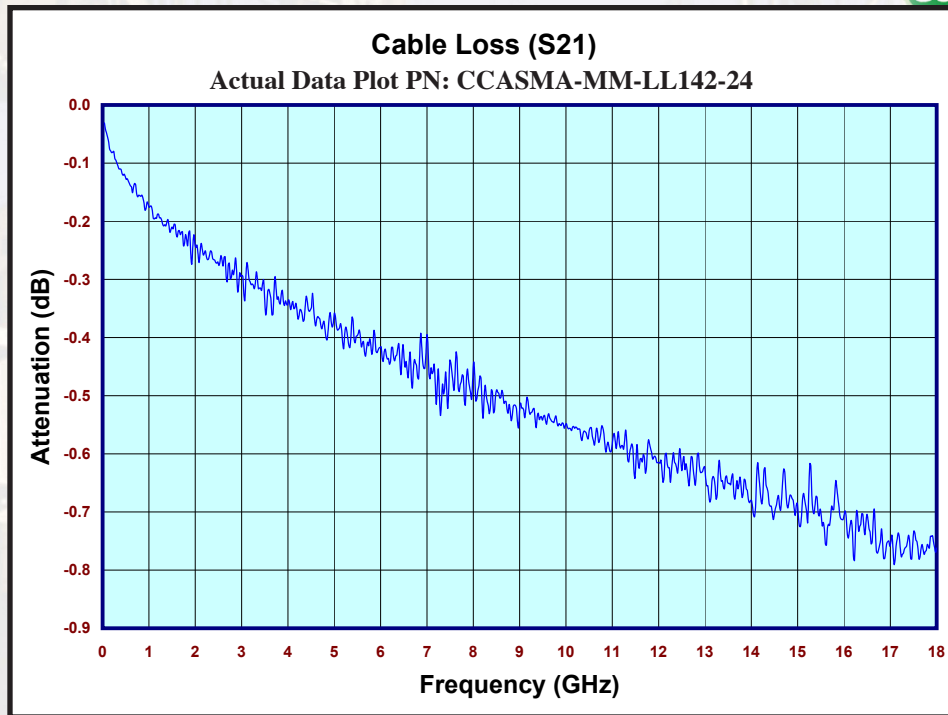
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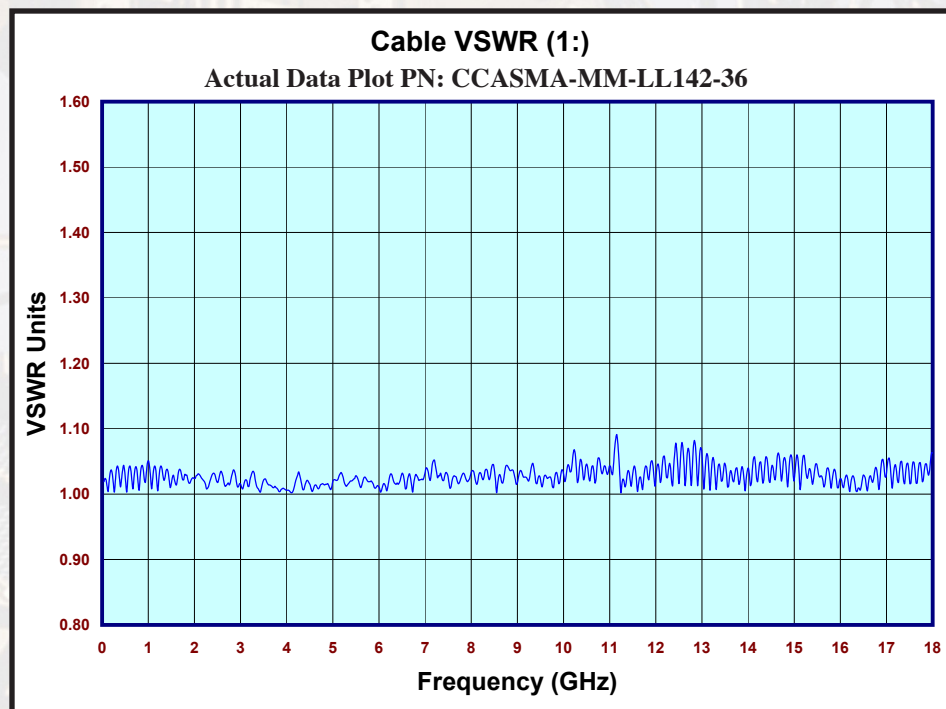
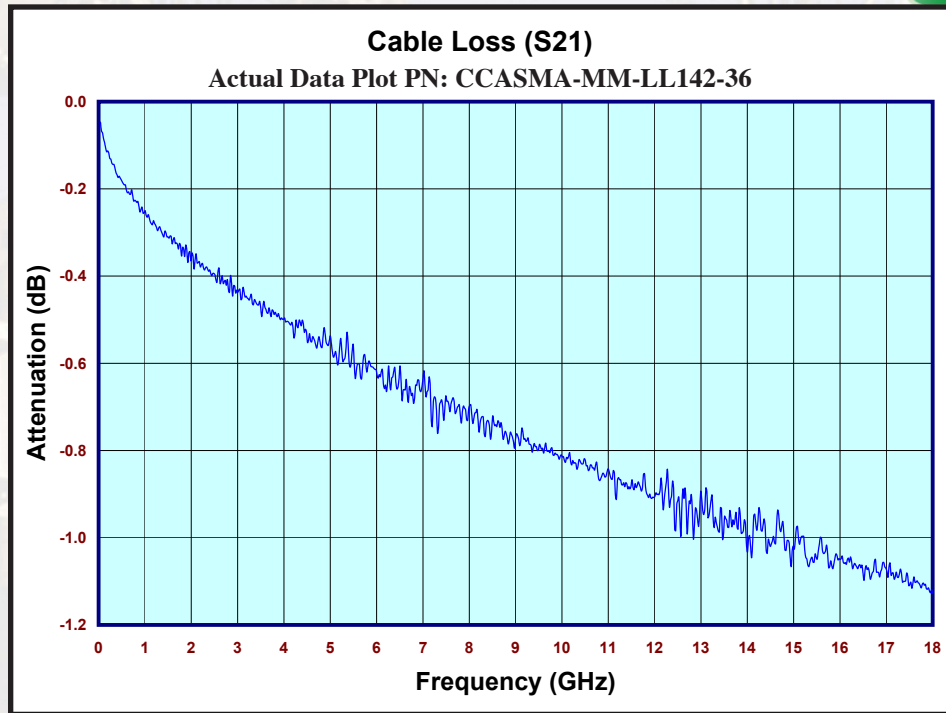
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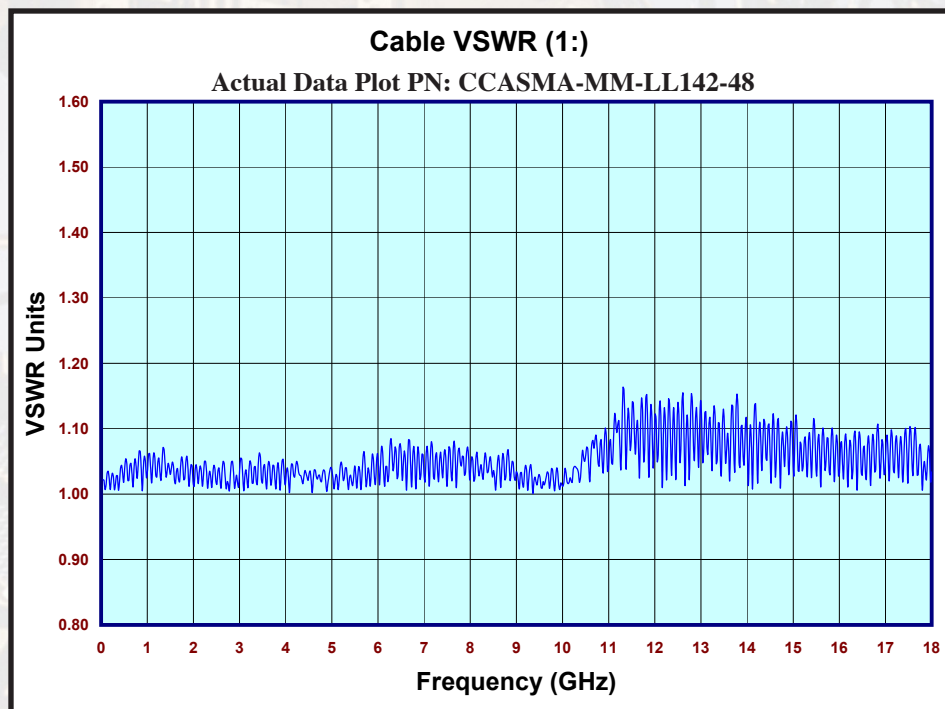
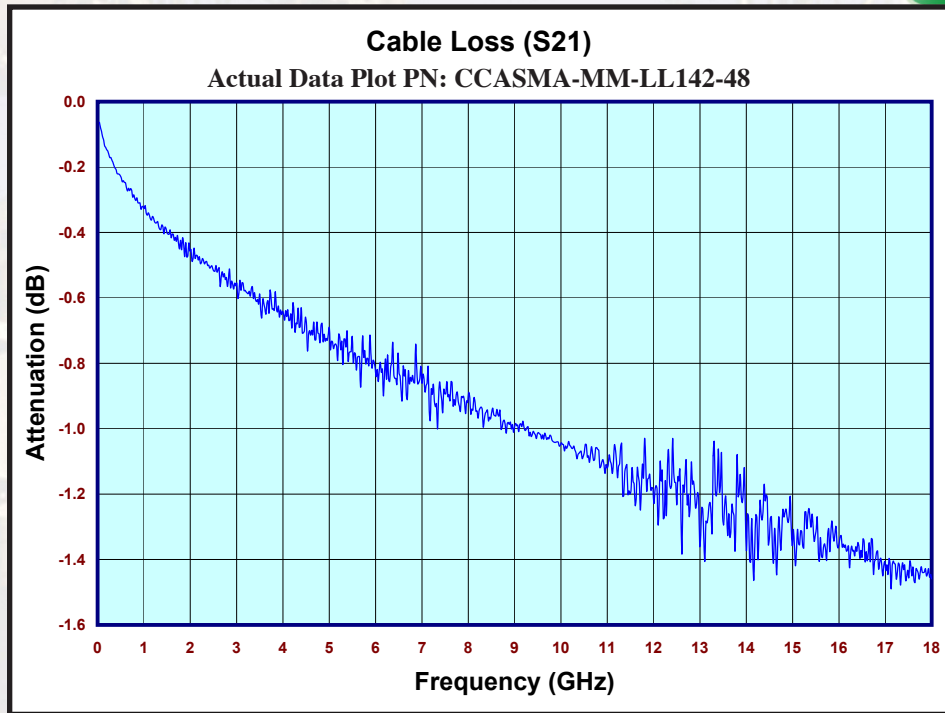
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