



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: 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

Jacket: FEP (Fluorinated Ethylene Propylene)

Cable Outer Dia. 0.195 (4.95mm)

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: Translucent Green

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.

Electrical Specifications:

Impedance: 50 Ohms

Frequency: Up to 18 GHz

Insertion Loss: <0.7 dB/ft at 18GHz

VSWR: <1.3 to 18GHz

Max Oper. Volt: 1900V RMS

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

*connector loss not included



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"



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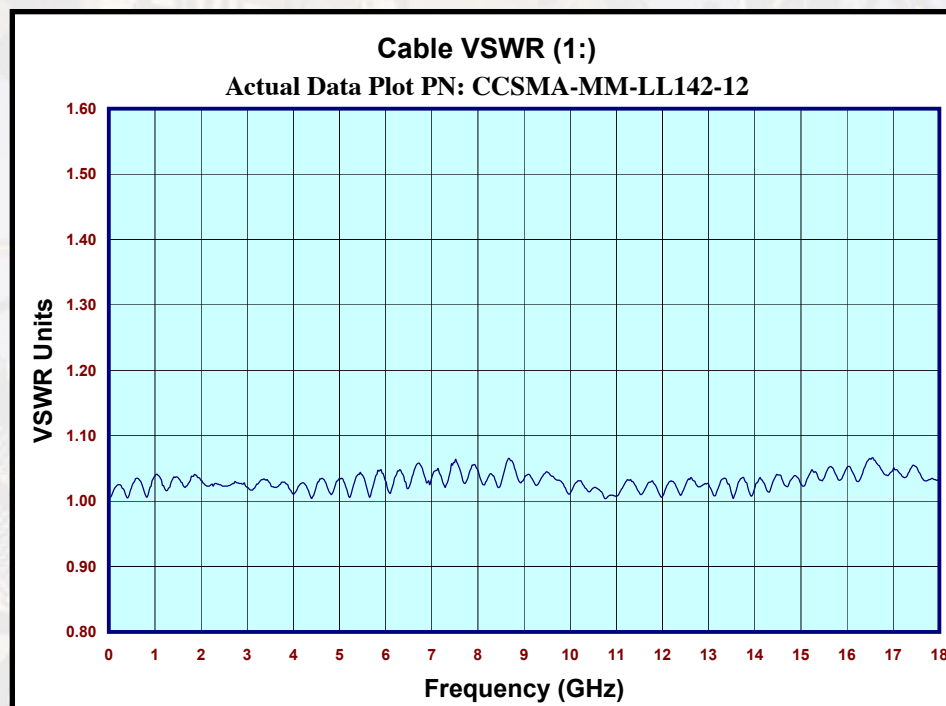
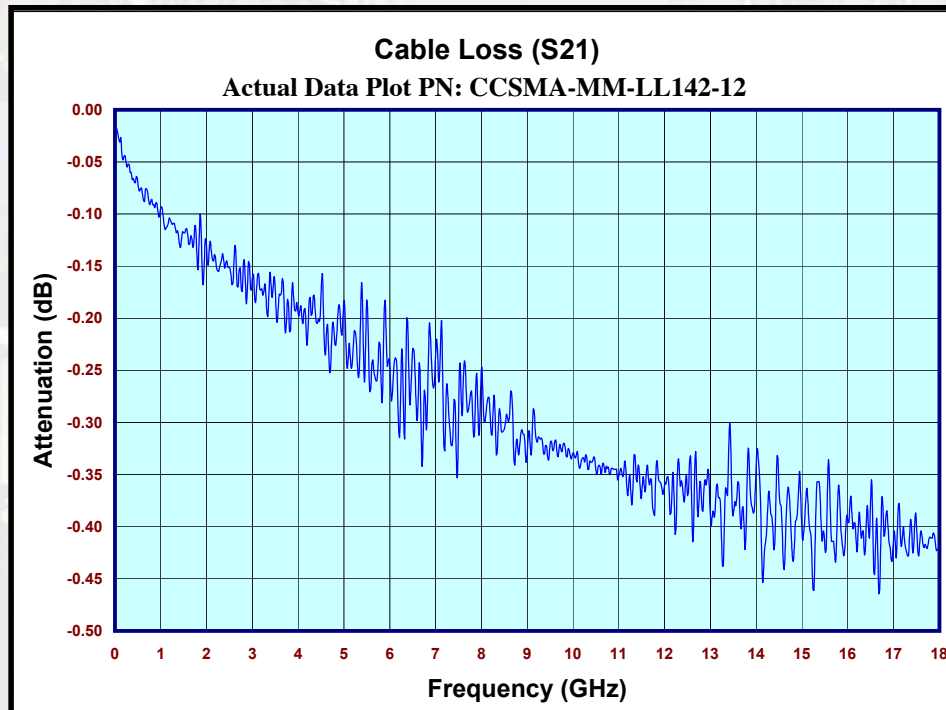
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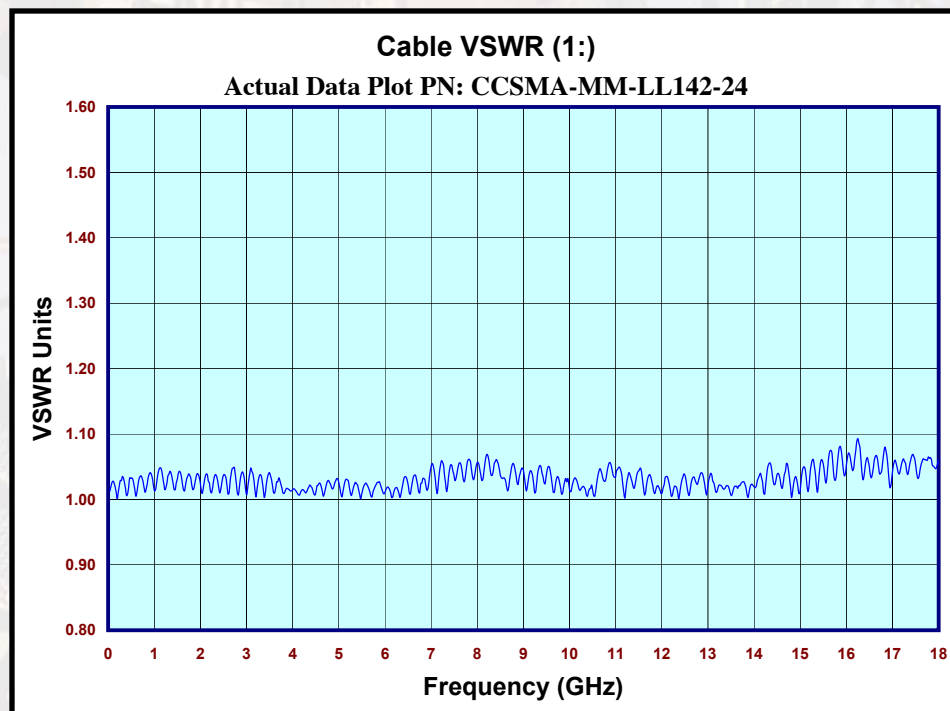
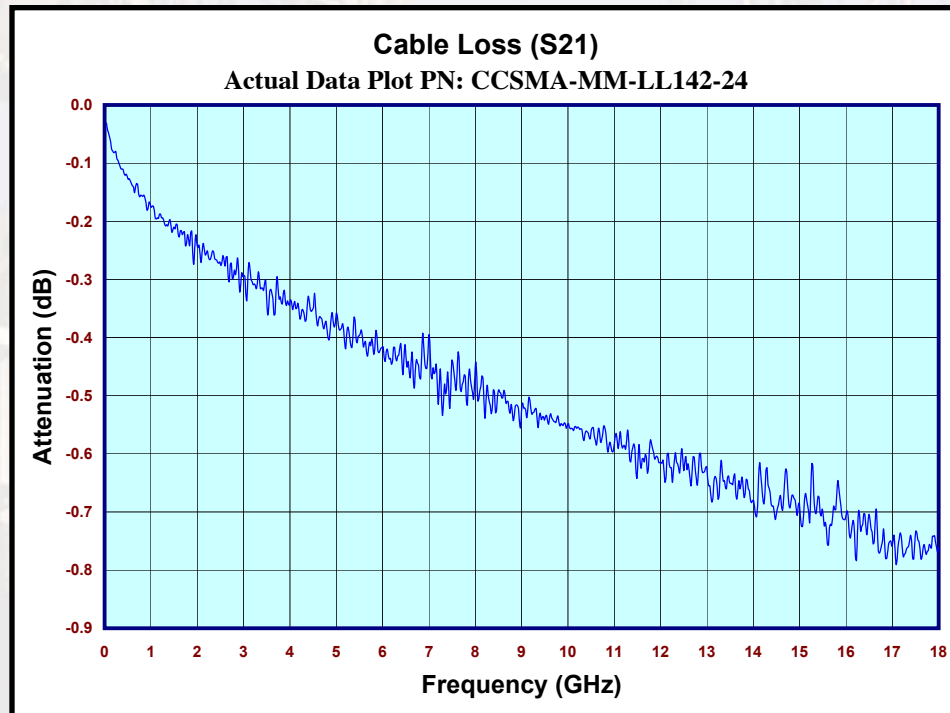
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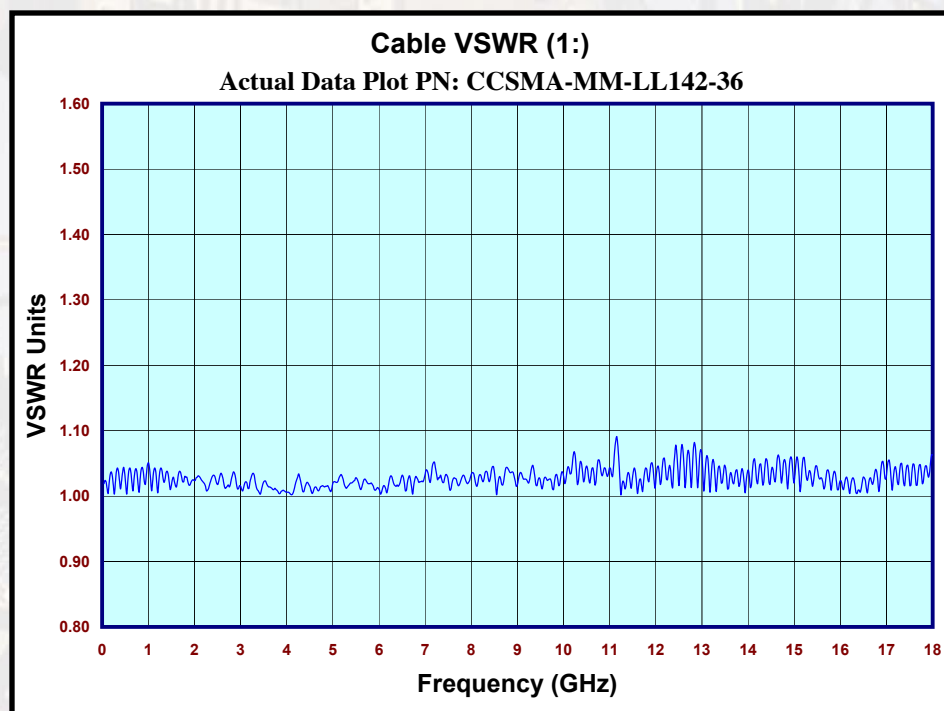
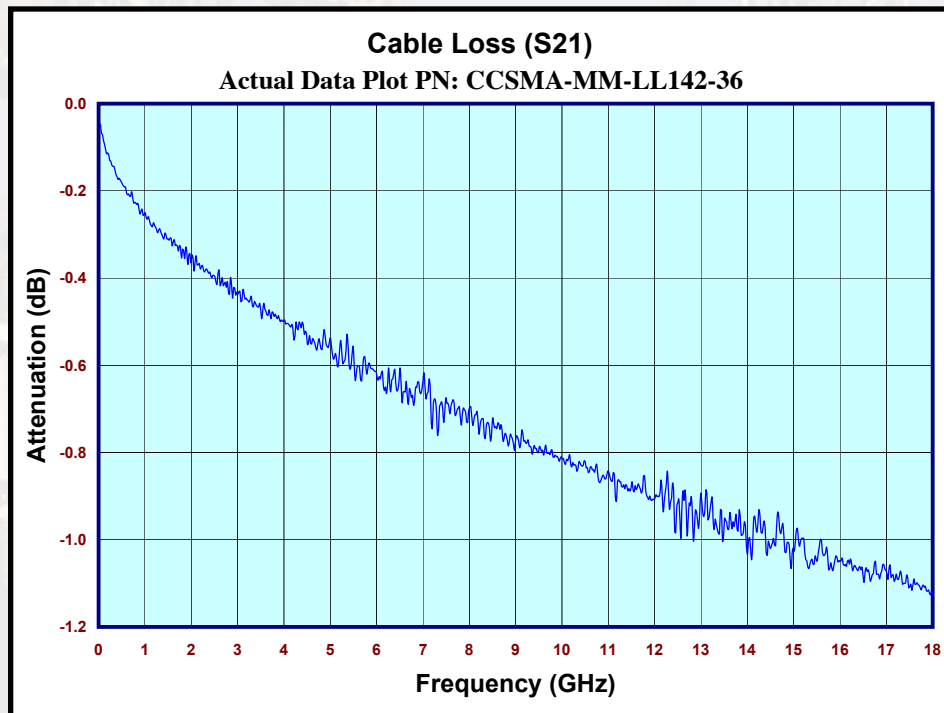
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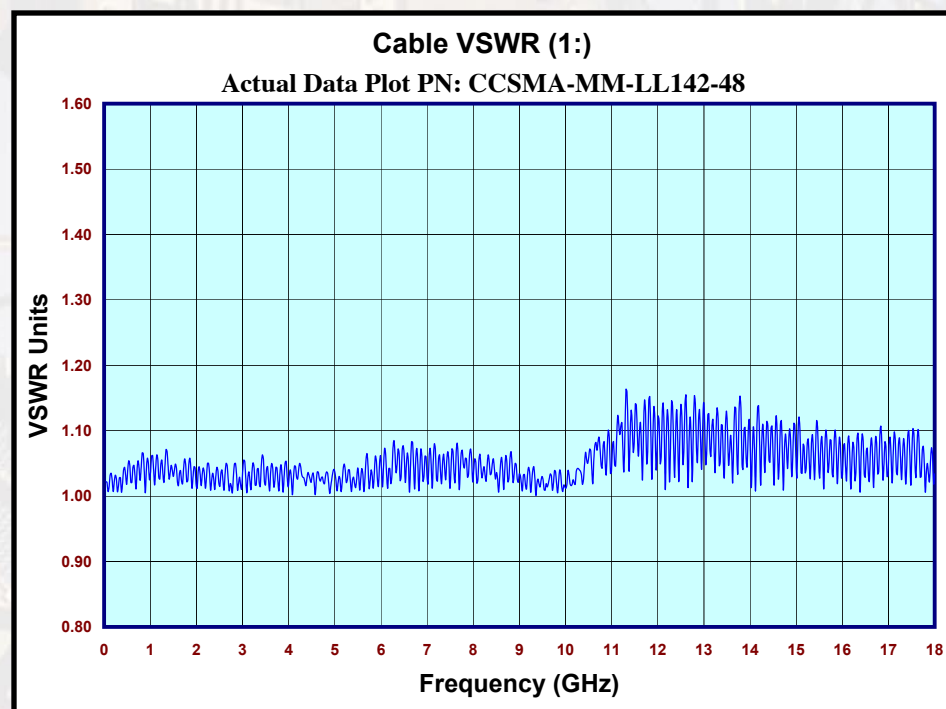
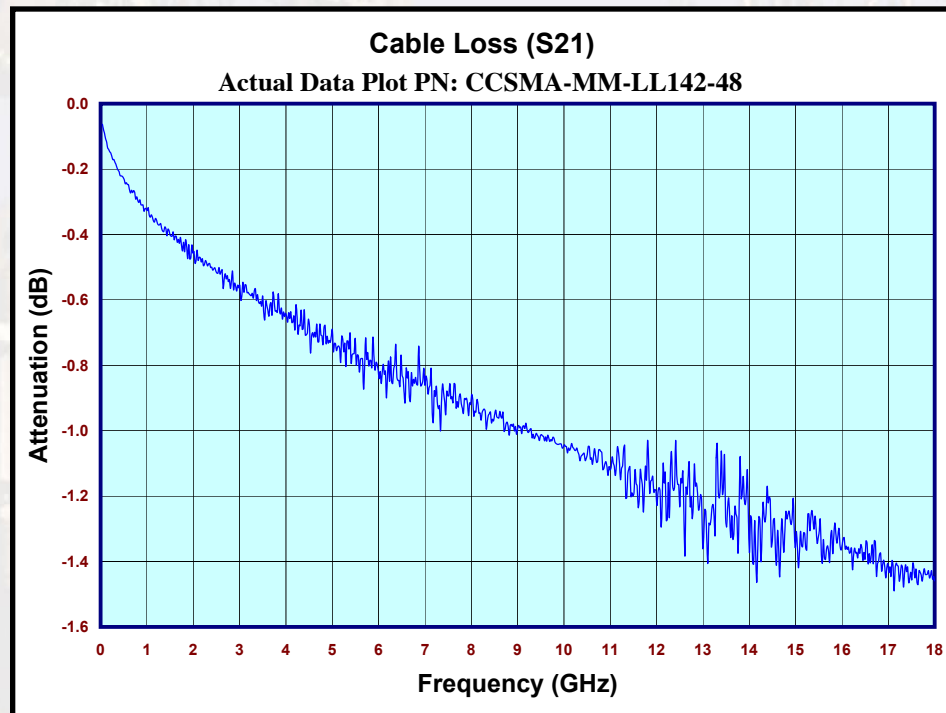
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