



CRYSTEK
MICROWAVE
A DIVISION OF CRYSTEK CORPORATION

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

LL142 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)

First Shield: Flat silver-plated copper braid

Second Shield: High temp. aluminum polyimide foil

Third Shield: Round silver-plated copper braid

Dielectric: Expanded PTFE (Polytetrafluoroethylene)

Jacket: ETFE (Ethylene Tetrafluoroethylene Copolymer)

Cable Outer Diameter: 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: -40°C to +85°C

Minimum Bend Radius: 0.8"

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 Minimum

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: 0.41 dB/ft Typ at 18 GHz

VSWR: <1.3 to 18 GHz

Nominal Capacitance: 26 pF/ft

Velocity of Propagation: 78%

Shield Effectiveness: Greater than 90 dB

Attenuation (dB/ft): 0.05 Typical at 500 MHz
0.08 Typical at 1 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

*connector loss not included

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

Custom Lengths Available



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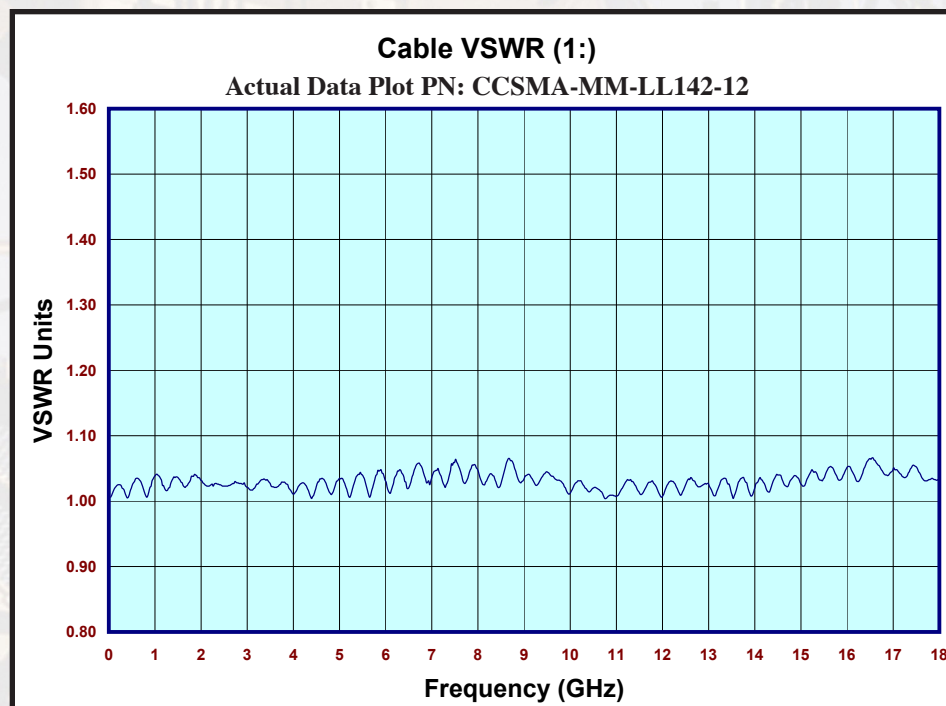
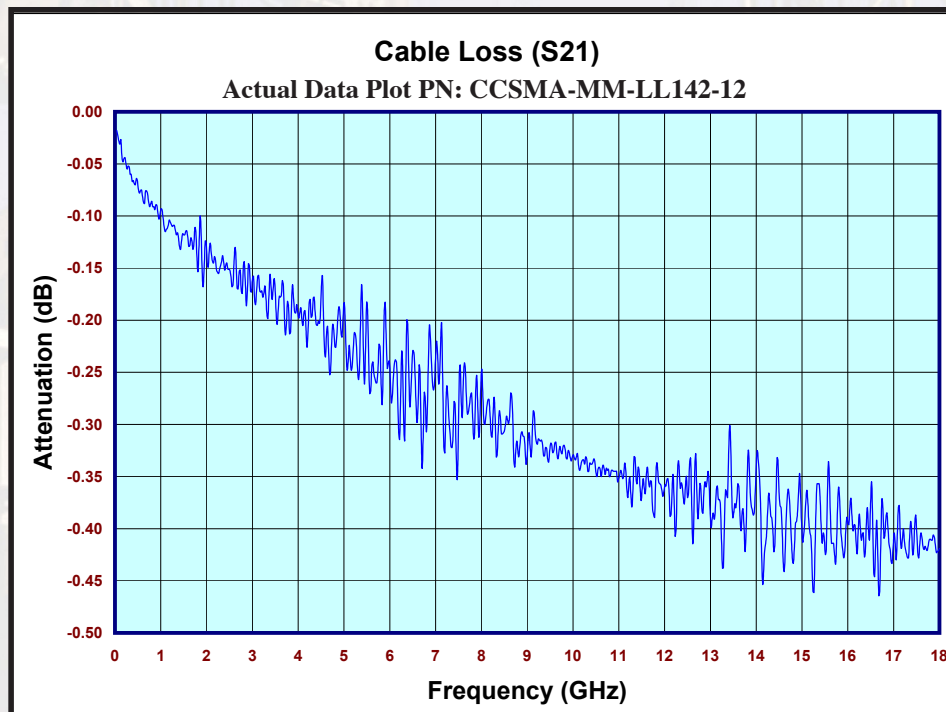
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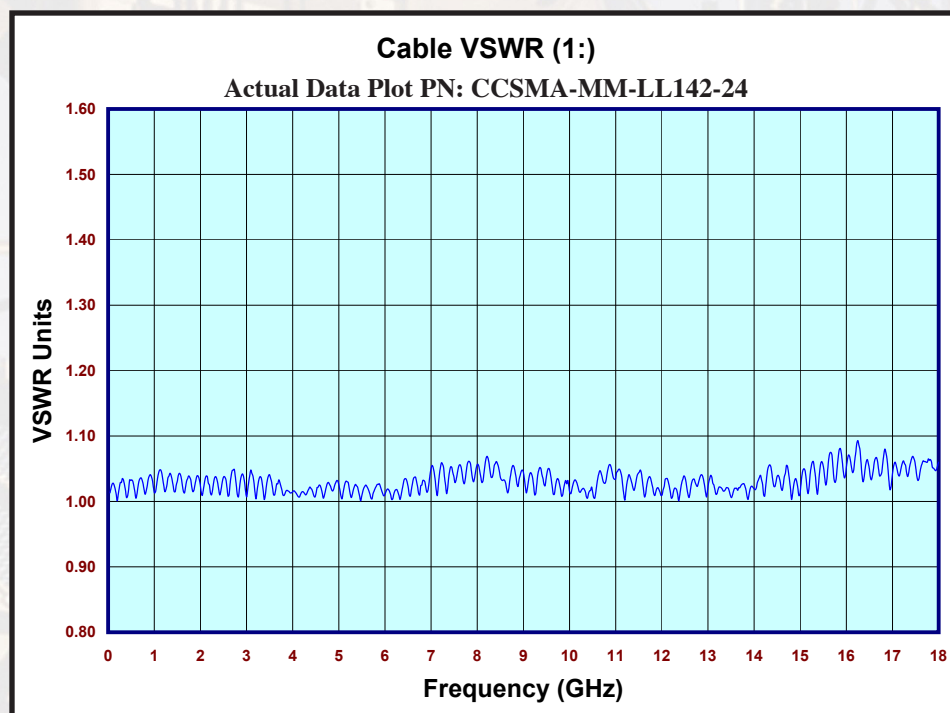
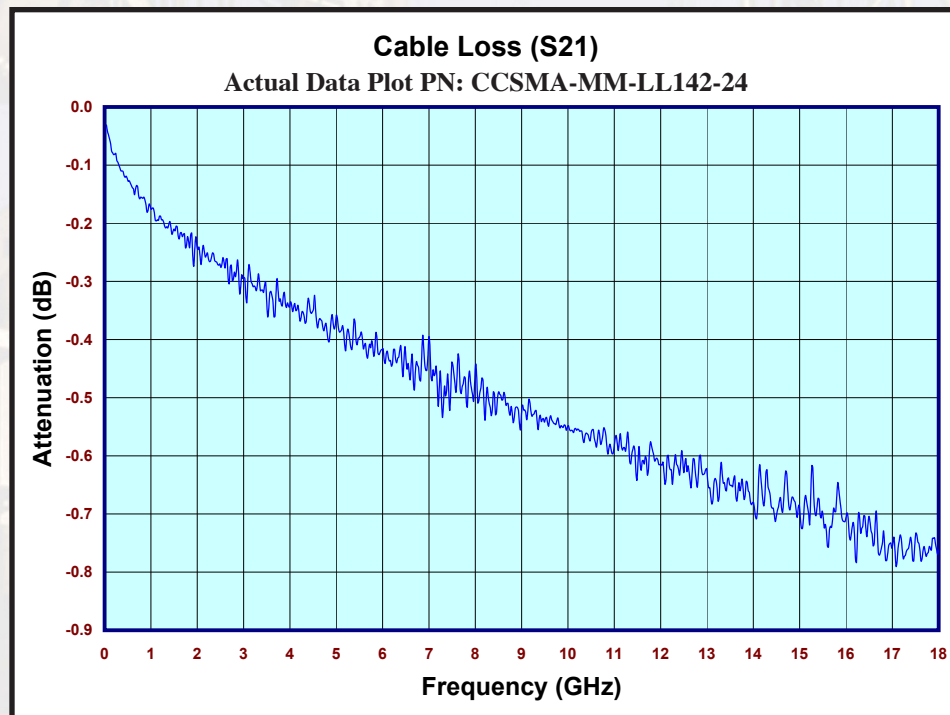
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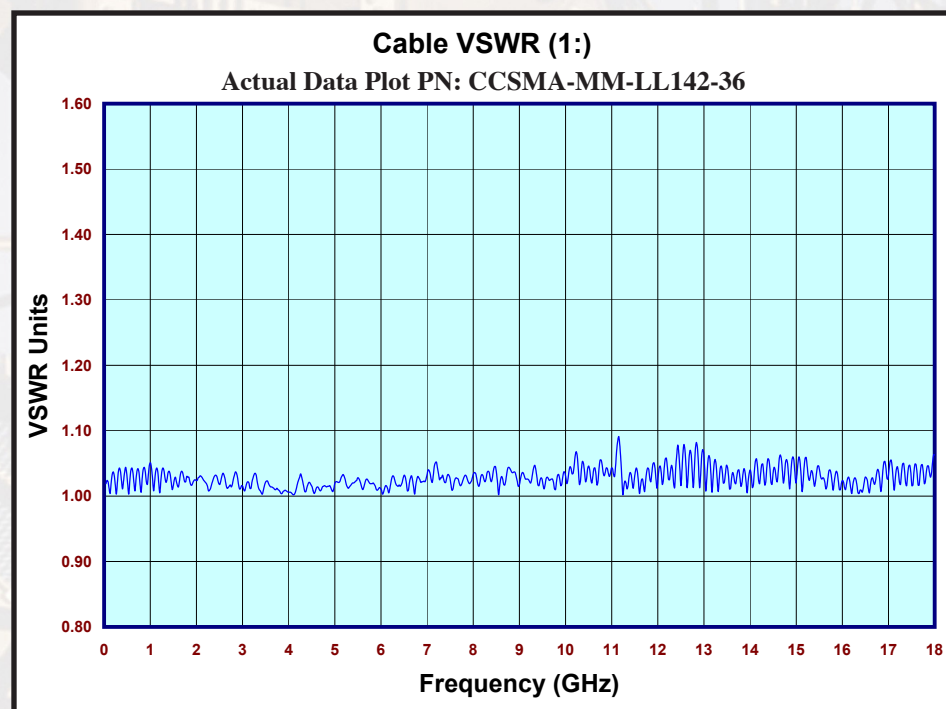
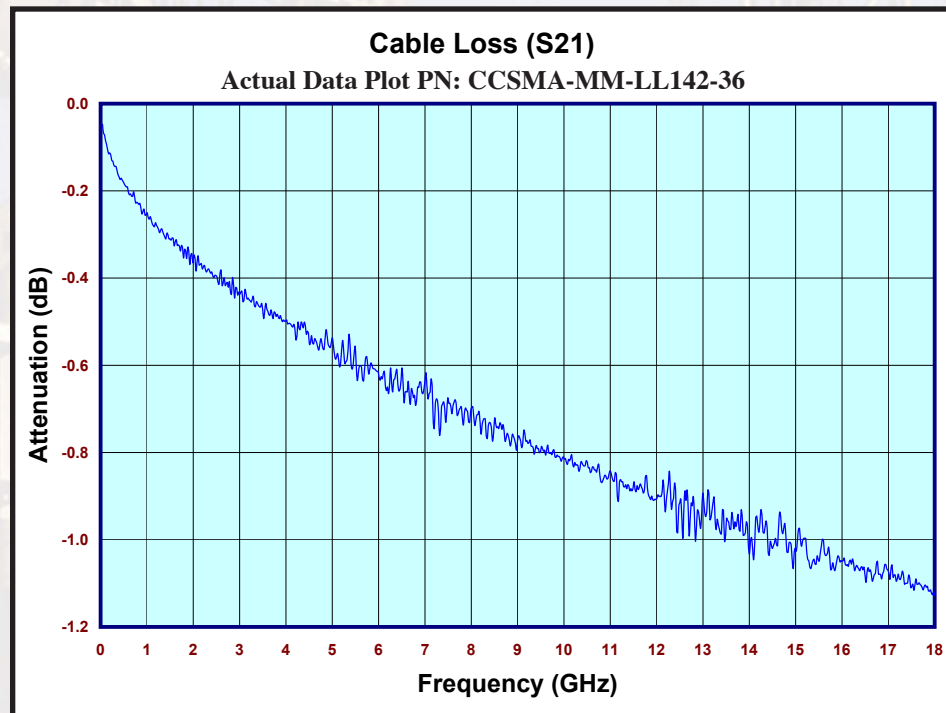
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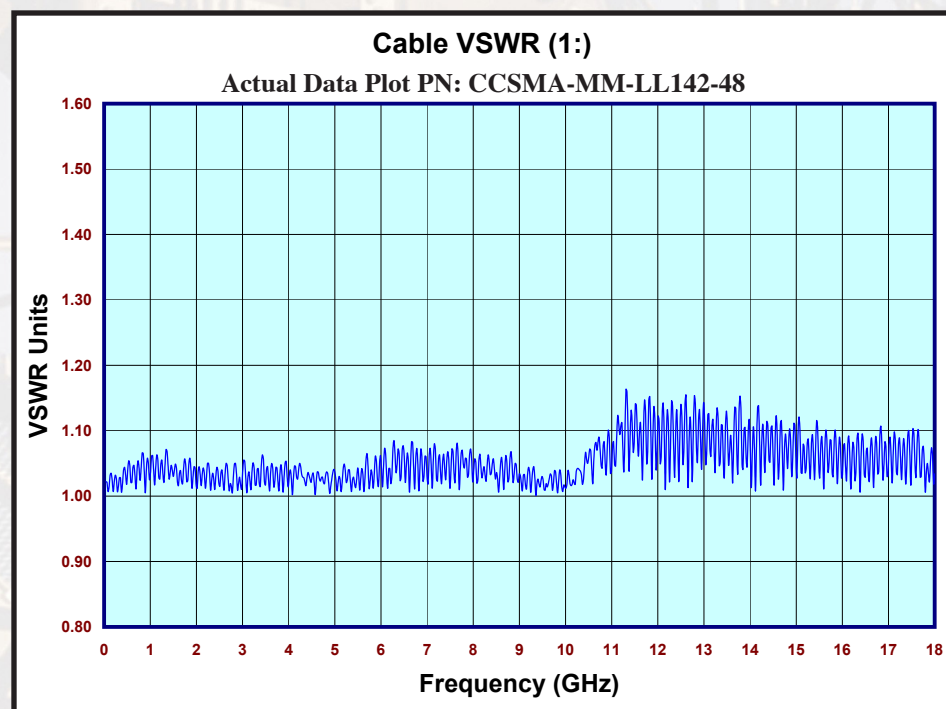
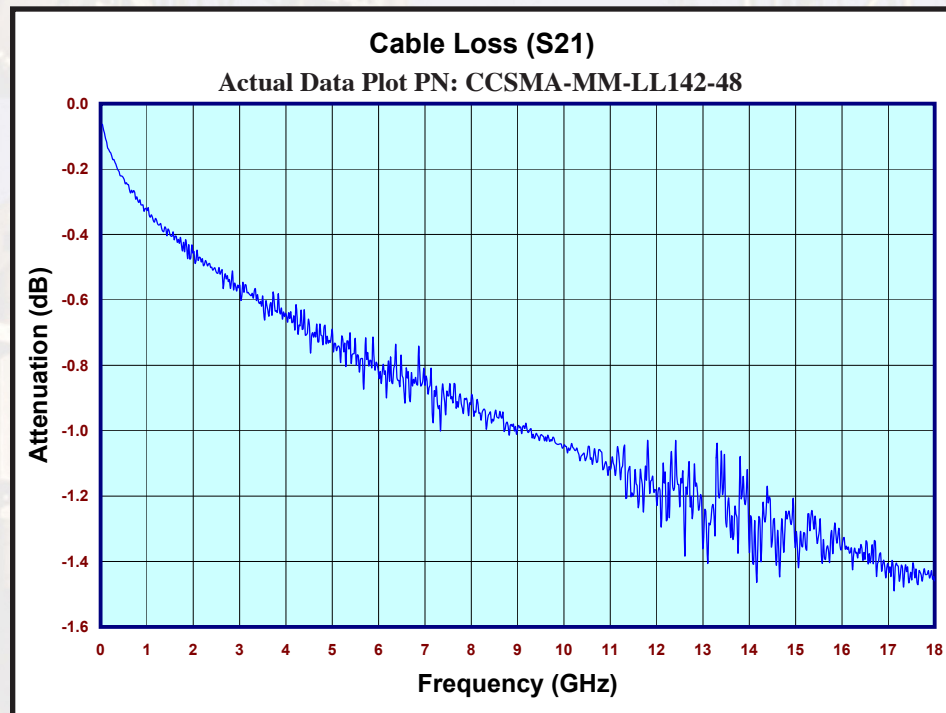
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