



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: (SMA)	<1.30 to 18 GHz
(N,TNC)	<1.35 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
<i>*connector loss not included</i>	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
Max Power in (Watts):	2800 @ 500 MHz
<i>*as specified at 25°C</i>	1960 @ 1 GHz
	1100 @ 3 GHz
	760 @ 6 GHz
	520 @ 12 GHz
	370 @ 18 GHz

Custom Lengths Available



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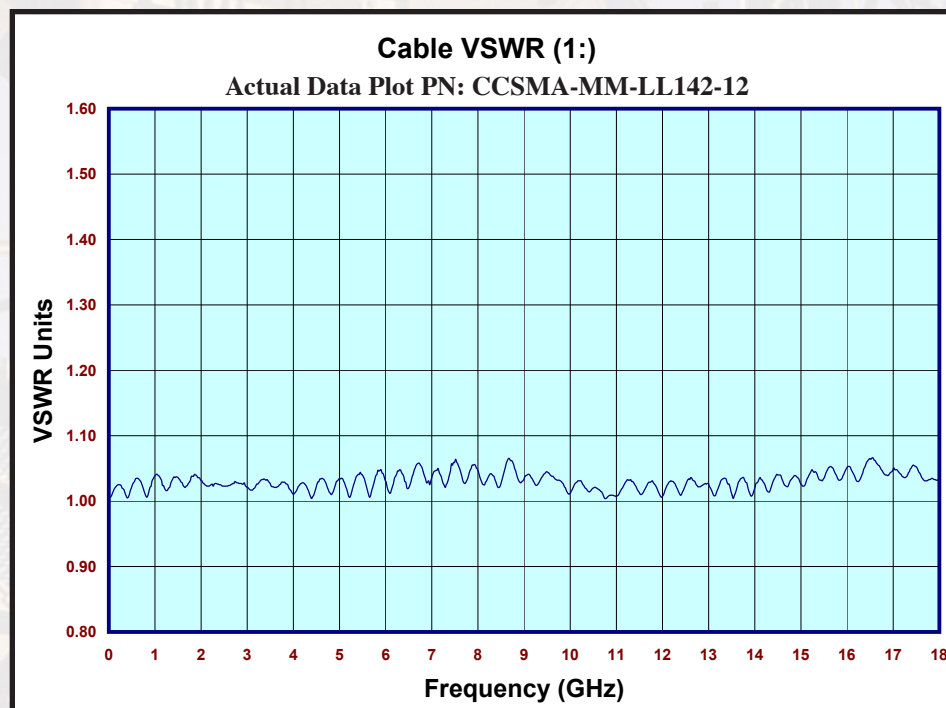
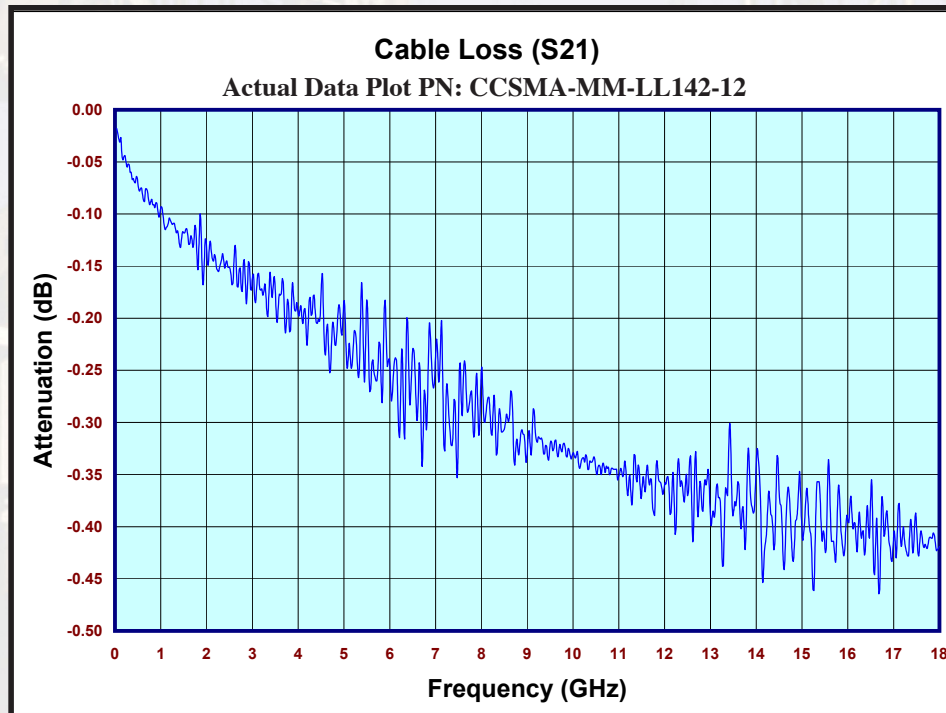
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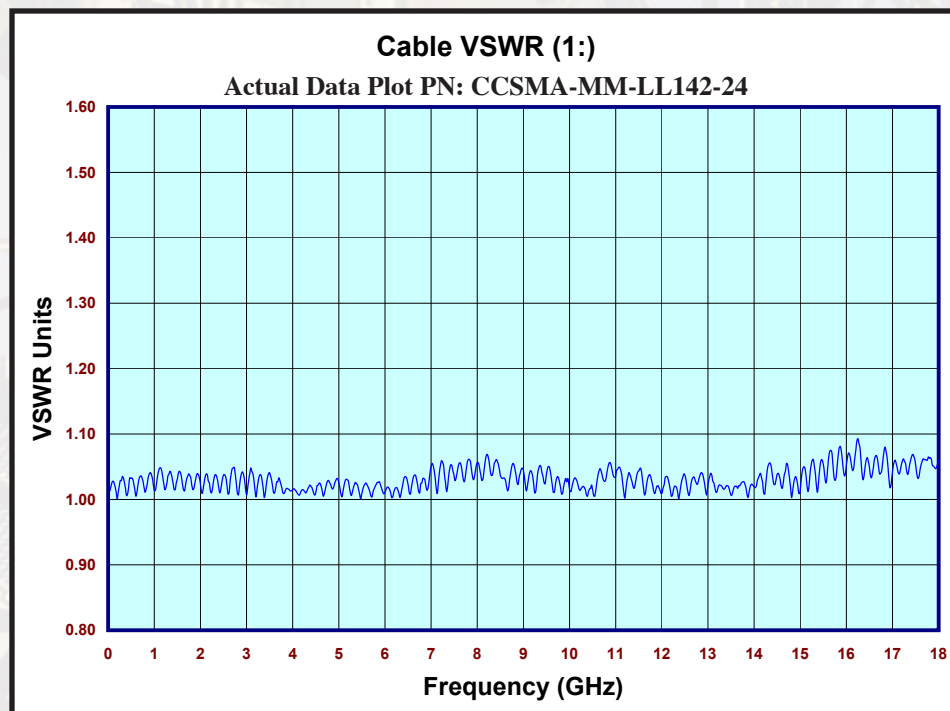
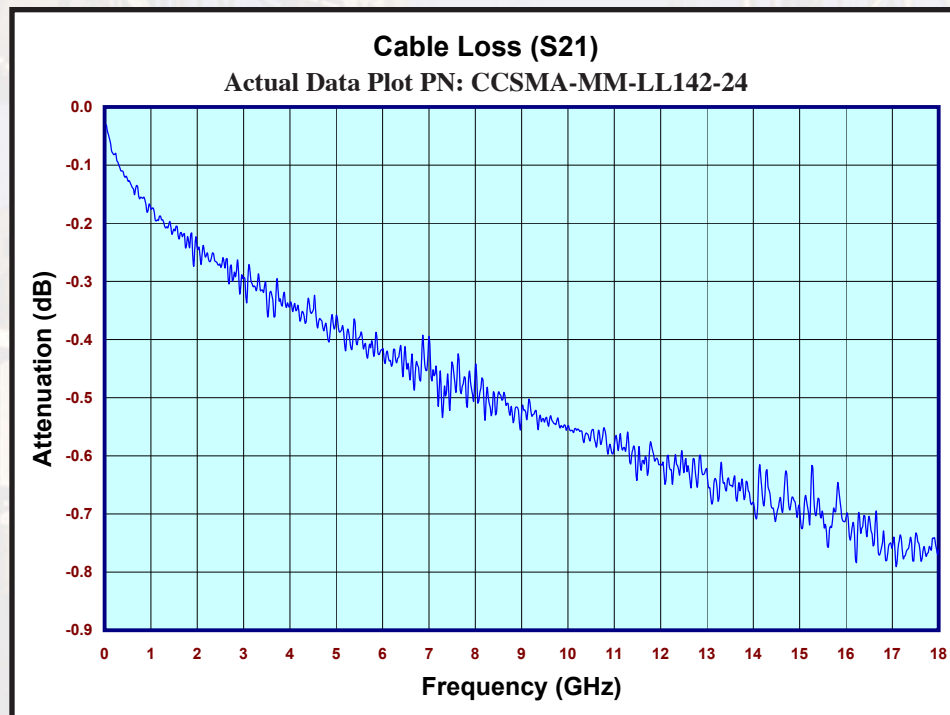
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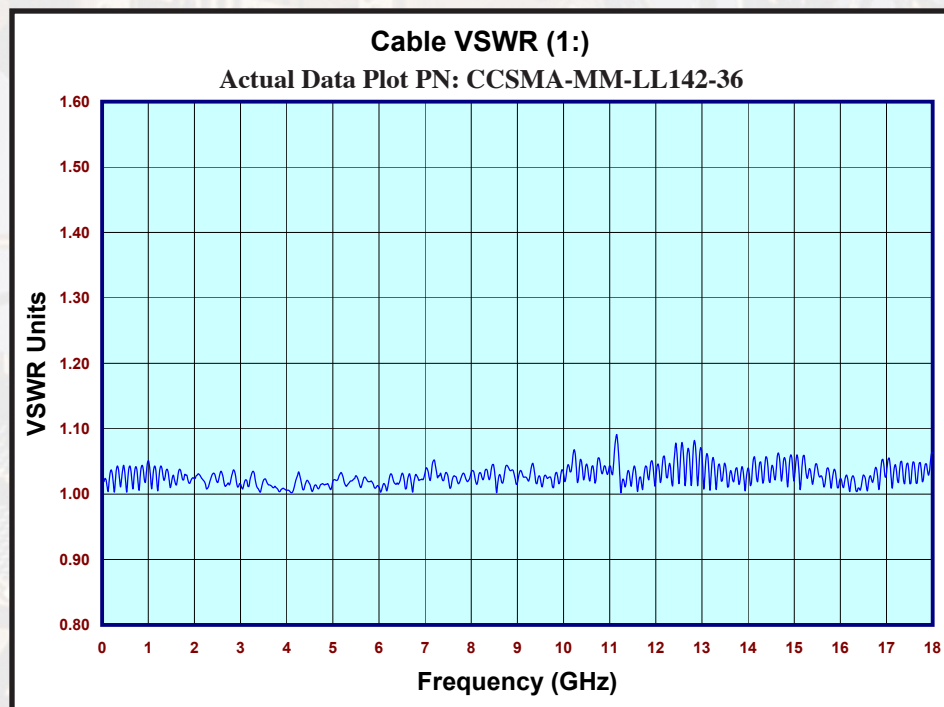
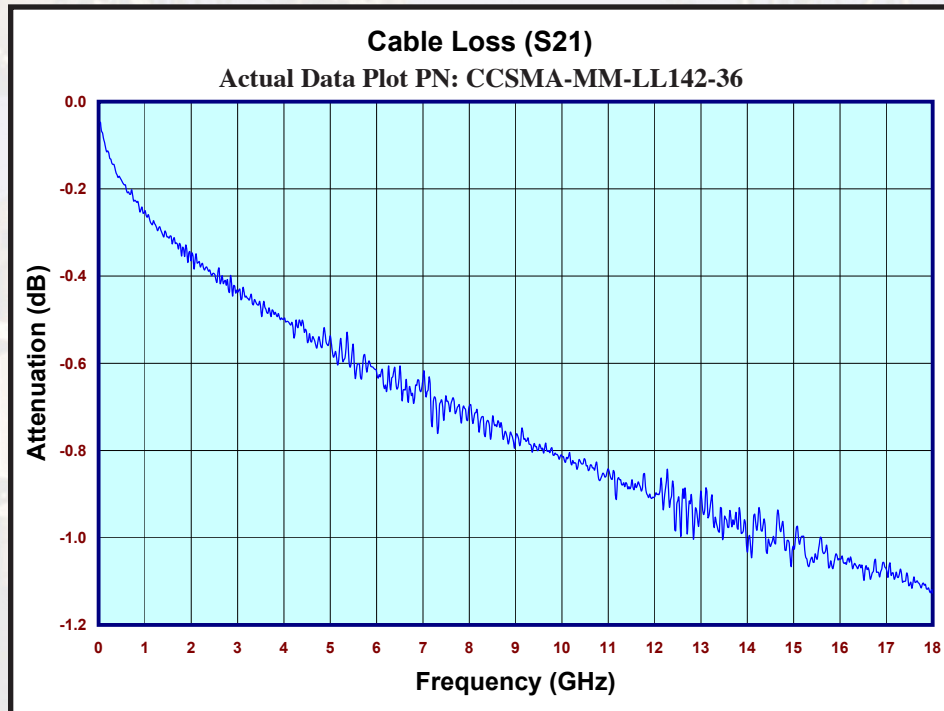
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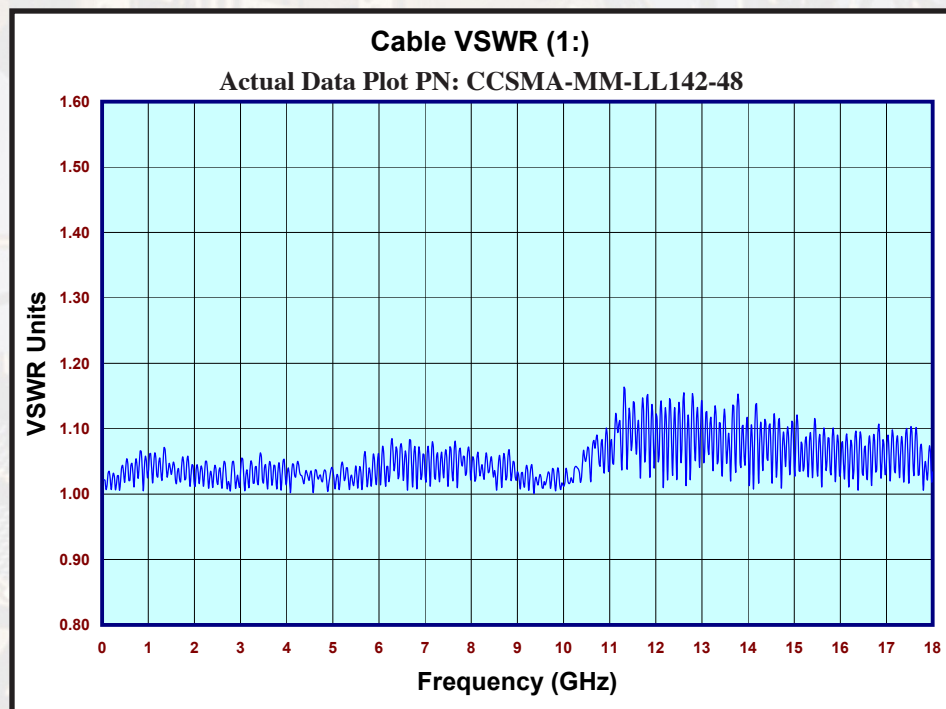
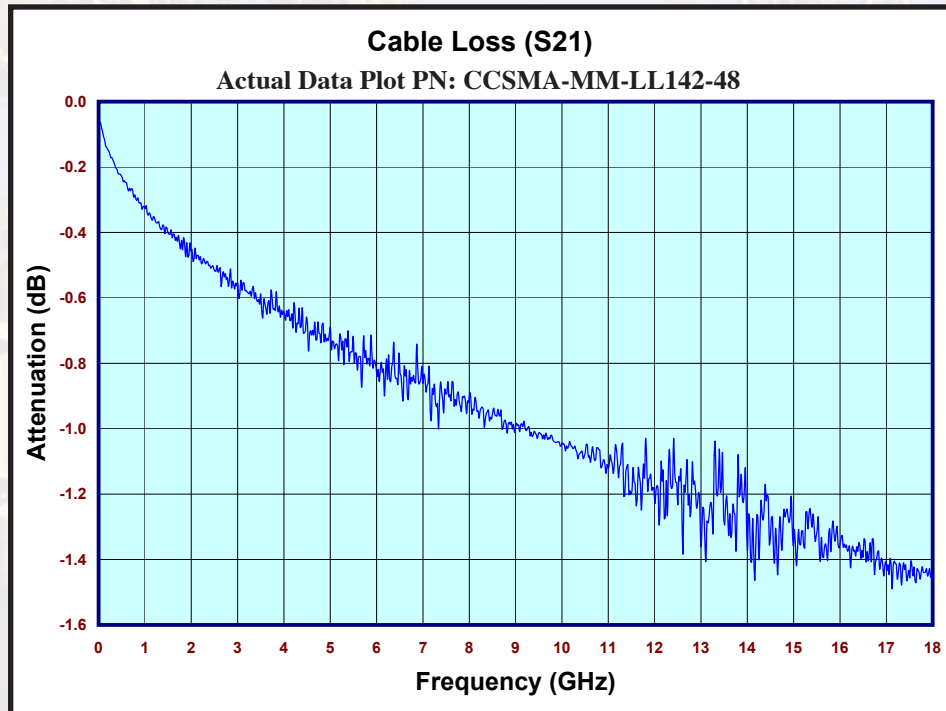
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