



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)
First Shield:	Silver-plated flat braid
Second Shield:	High temp. aluminum polyimide foil
Third Shield:	Round 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

*connector loss not included

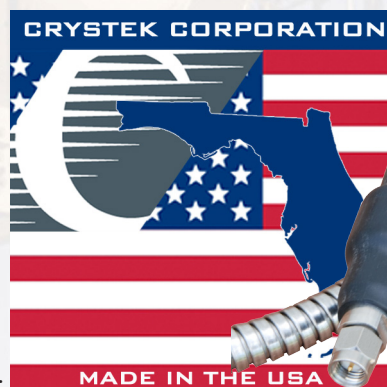
Max Power in (Watts):	2800 @ 500 MHz
	1960 @ 1 GHz
	1100 @ 3 GHz
	760 @ 6 GHz
	520 @ 12 GHz
	370 @ 18 GHz

*as specified at 25°C

Custom Lengths Available

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]

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

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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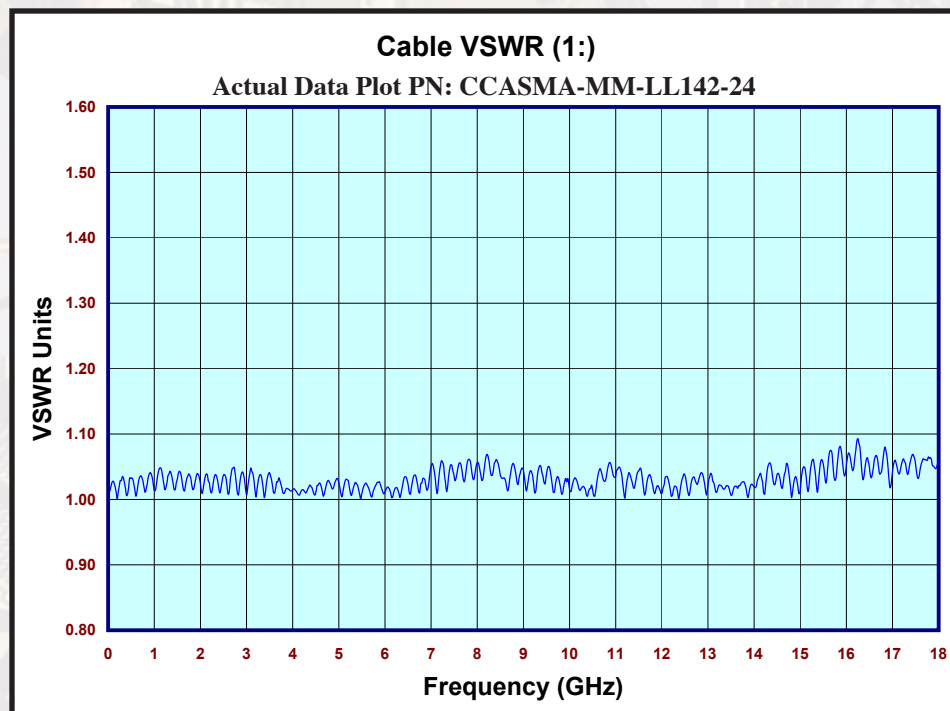
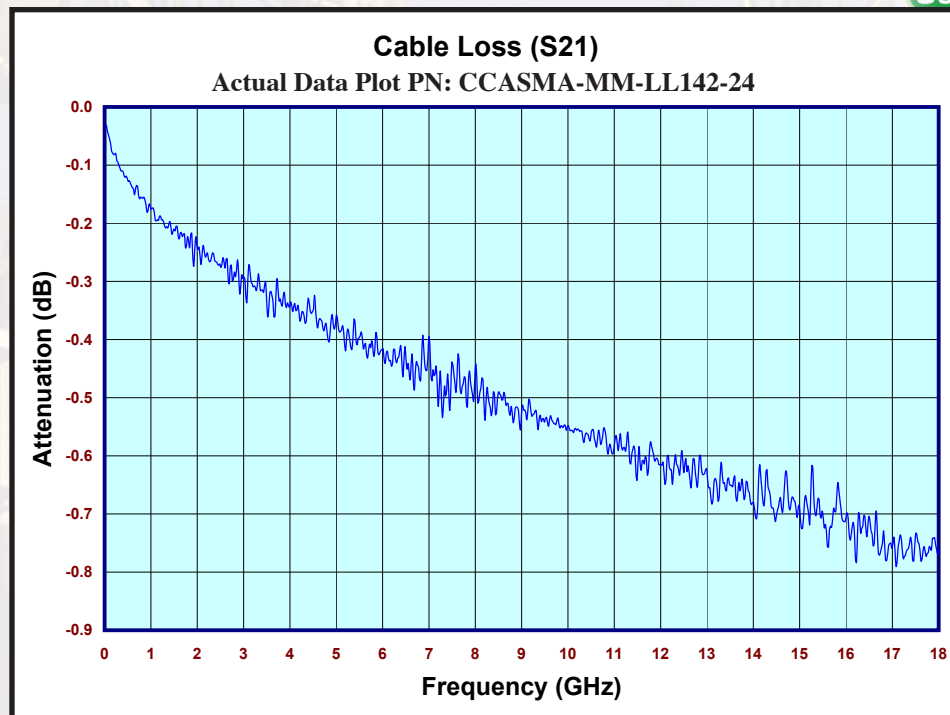
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FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 08-02-22



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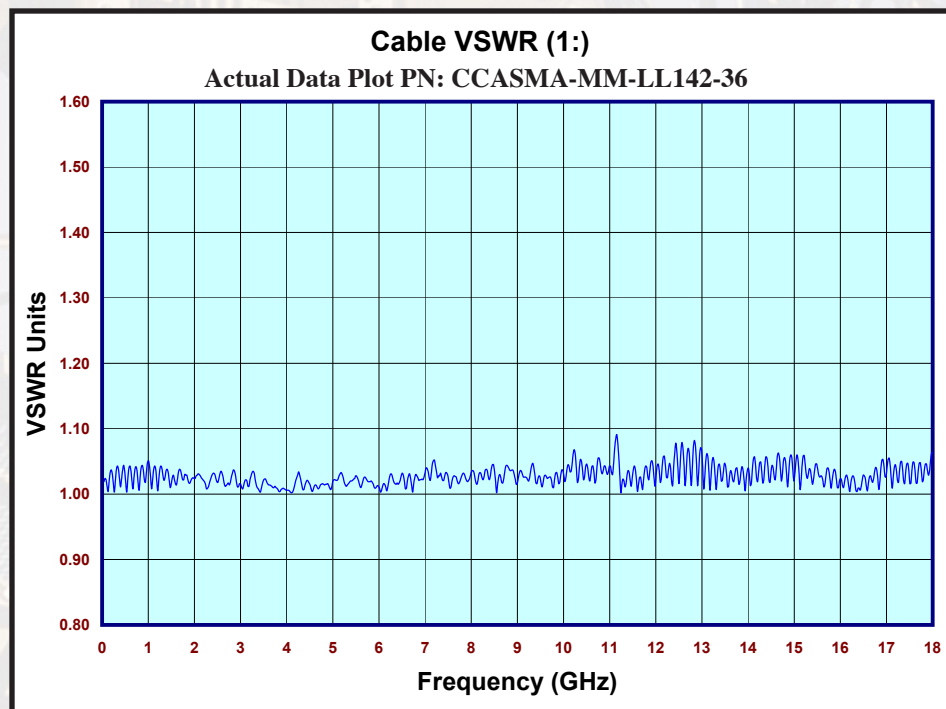
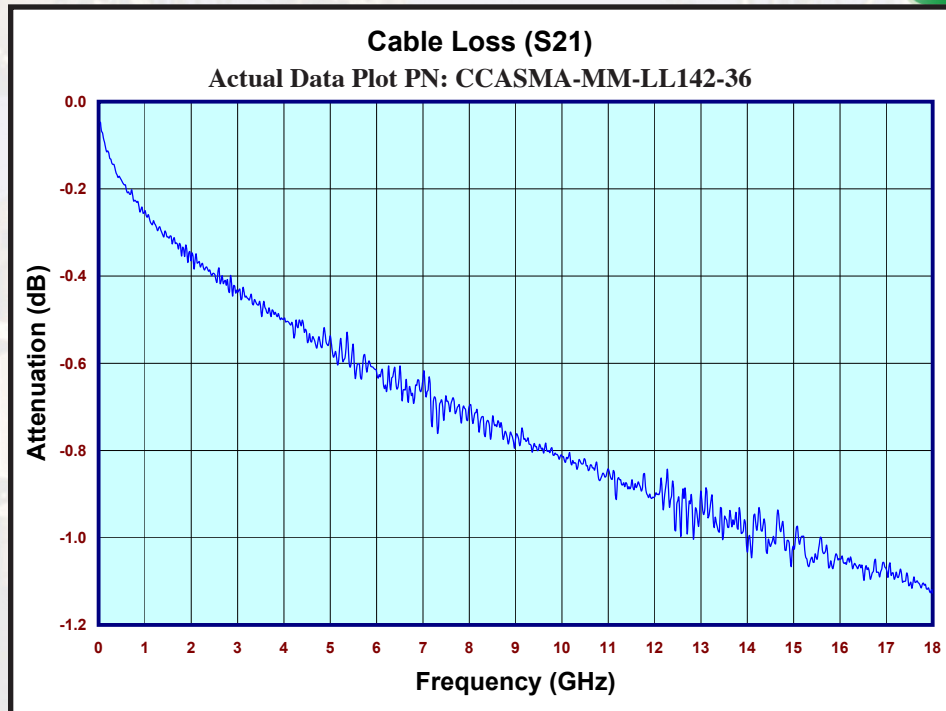
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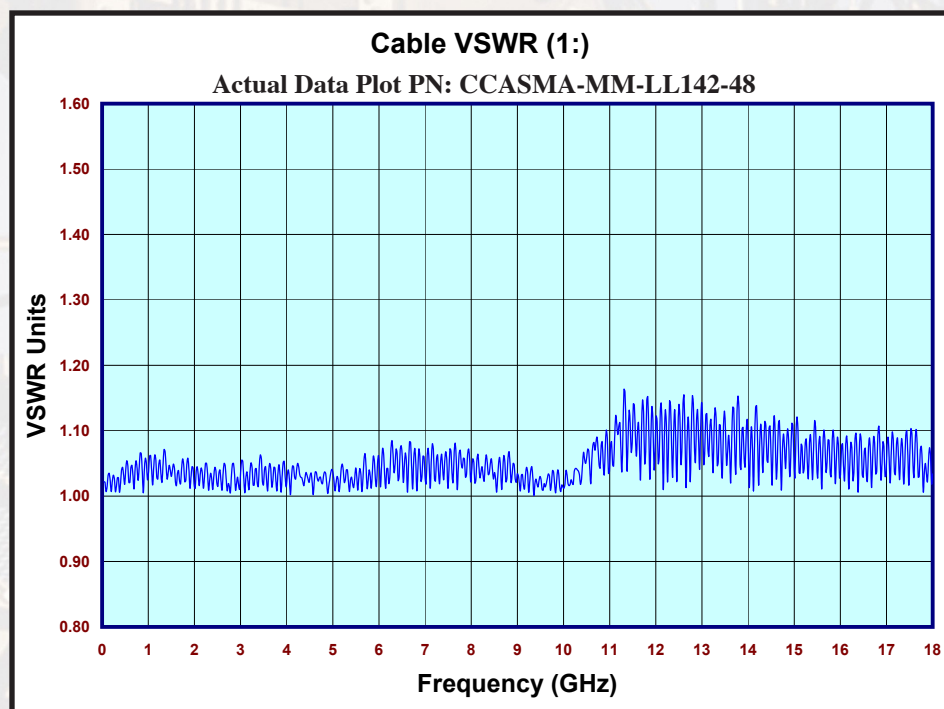
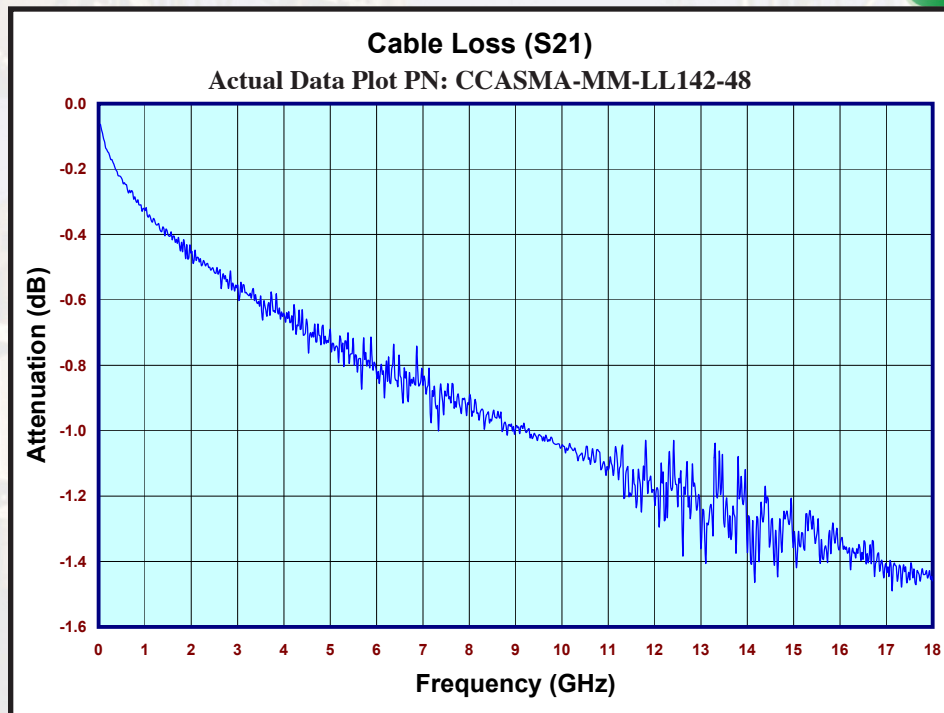
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Mouser Electronics

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