



**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

**FLEXIBLE .086 PRECISION  
 12.6 GHZ RIGHT ANGLE  
 RF COAX CABLE ASSEMBLIES**

**086 Flexible 50 Ohm 12.6 GHz Right Angle Coaxial Cables**



**Features:**

- Strain Relief:** Heavy duty adhesive strain relief
- Center Conductor:** SCCS (Silver-Plated Copper Clad Steel)
- Inner Braid:** Flat silver-plated copper strip
- Outer Braid:** PC (Round Silver-Plated Copper Braid)
- Dielectric:** PTFE (Polytetrafluoroethylene)
- Jacket:** FEP (Fluorinated Ethylene Propylene)
- Cable Outer Diameter:** 0.100" (2.54mm)
- Connectors:** Gold-plated brass
- Center Pin:** Gold-plated brass
- Jacket Color:** Blue
- Operating Temperature:** -45°C to +85°C

**Static Bend Radius:** 0.3" Min.

**Electrical Specifications:**

- Impedance:** 50 Ohms
- Frequency:** Up to 12.6 GHz
- Insertion Loss:** 0.83 dB/ft Typ at 12 GHz
- VSWR:** SMA Male/RA <1.35 to 12.6 GHz  
RA/RA <1.35 to 6.4 GHz
- Nominal Capacitance:** 31 pF/ft
- Velocity of Propagation:** 70%
- Shield Effectiveness:** Greater than 100 dB
- Attenuation (dB/ft):** 0.15 Typical at 500 MHz  
\*connector loss not included 0.21 Typical at 1 GHz  
0.38 Typical at 3 GHz  
0.56 Typical at 6 GHz  
0.83 Typical at 12 GHz

- Max Power in (Kwatts):** 0.18 @ 500 MHz  
\*as specified at 25°C/sea level 0.13 @ 1 GHz  
0.08 @ 3 GHz  
0.05 @ 6 GHz  
0.04 @ 12 GHz



**Available Connector Terminations:**

- SMA Male / SMA Male Right Angle (DC to 12.6 GHz)
- SMA Male Right Angle / SMA Male Right Angle (DC to 6.4 GHz)

*Custom Lengths Available*







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**SMA Male [Right Ange] / SMA Male [Straight]**

12.6 GHz Part Number	Description	Length
CCSMA121-MM-086F-12	.086 Flexible RF Coax Cable, SMA Male/Male, RA/Straight	12"
CCSMA121-MM-086F-24	.086 Flexible RF Coax Cable, SMA Male/Male, RA/Straight	24"
CCSMA121-MM-086F-36	.086 Flexible RF Coax Cable, SMA Male/Male, RA/Straight	36"
CCSMA121-MM-086F-48	.086 Flexible RF Coax Cable, SMA Male/Male, RA/Straight	48"
CCSMA121-MM-086F-60	.086 Flexible RF Coax Cable, SMA Male/Male, RA/Straight	60"
CCSMA121-MM-086F-72	.086 Flexible RF Coax Cable, SMA Male/Male, RA/Straight	72"
CCSMA121-MM-086F-120	.086 Flexible RF Coax Cable, SMA Male/Male, RA/Straight	120"

**SMA Male [Right Angle] / SMA Male [Right Angle]**

6.4 GHz Part Number	Description	Length
CCSMA642-MM-086F-12	.086 Flexible RF Coax Cable, SMA Male/Male, RA/RA	12"
CCSMA642-MM-086F-24	.086 Flexible RF Coax Cable, SMA Male/Male, RA/RA	24"
CCSMA642-MM-086F-36	.086 Flexible RF Coax Cable, SMA Male/Male, RA/RA	36"
CCSMA642-MM-086F-48	.086 Flexible RF Coax Cable, SMA Male/Male, RA/RA	48"
CCSMA642-MM-086F-60	.086 Flexible RF Coax Cable, SMA Male/Male, RA/RA	60"
CCSMA642-MM-086F-72	.086 Flexible RF Coax Cable, SMA Male/Male, RA/RA	72"
CCSMA642-MM-086F-120	.086 Flexible RF Coax Cable, SMA Male/Male, RA/RA	120"



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 CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913  
 PHONE: 239-561-3311 • 800-237-3061 Rev.: D  
 FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 12-09-14

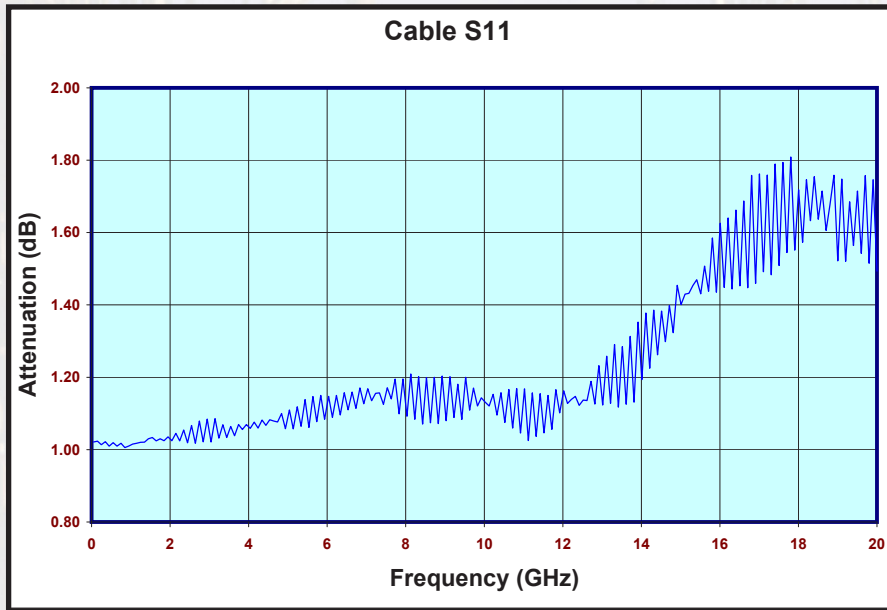


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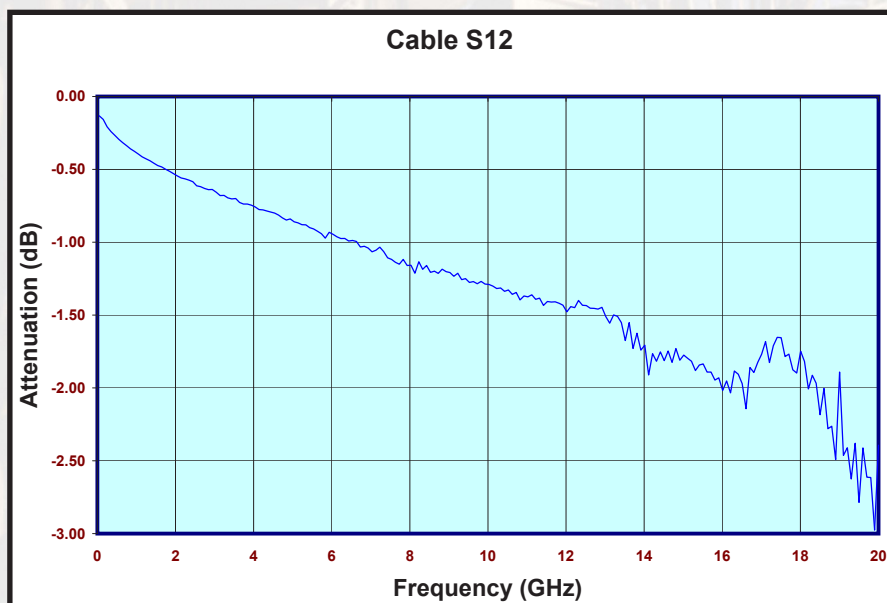
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**S11 Actual Data Plot PN: CCSMA121-MM-086F-24**



**S12 Actual Data Plot PN: CCSMA121-MM-086F-24**



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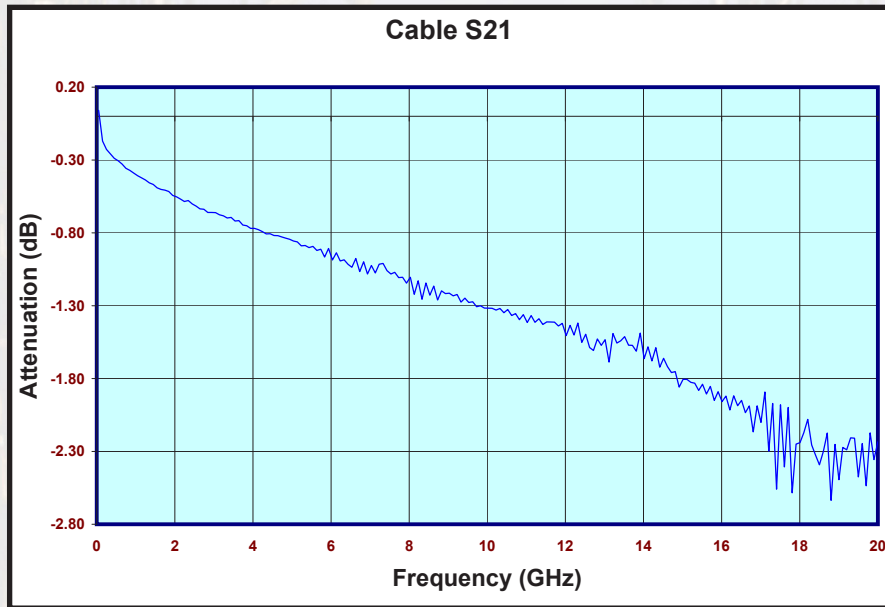


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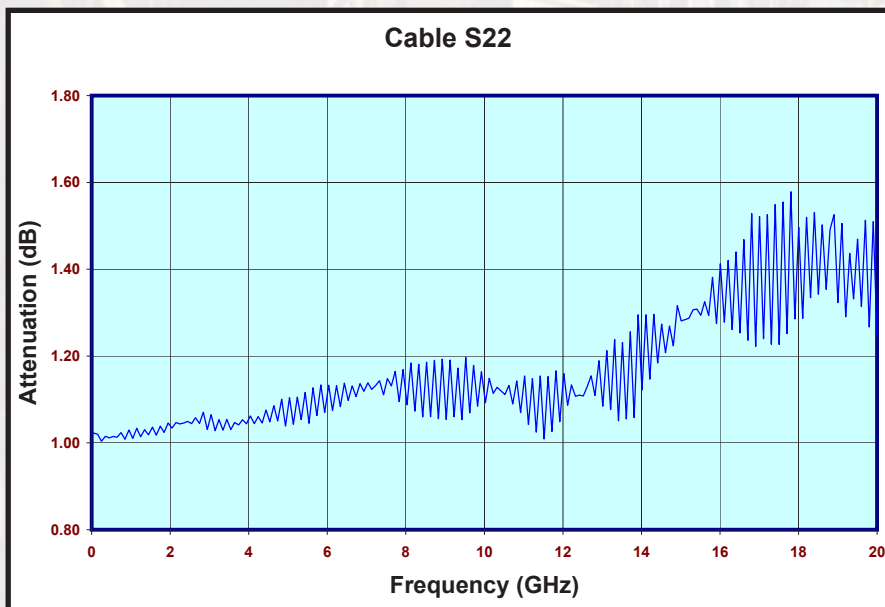
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**S21 Actual Data Plot PN: CCSMA121-MM-086F-24**



**S22 Actual Data Plot PN: CCSMA121-MM-086F-24**



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