



**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:

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

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

#### Electrical Specifications:

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Impedance:</b>                   | 50 Ohms                  |
| <b>Frequency:</b>                   | Up to 12.6 GHz           |
| <b>Insertion Loss:</b>              | 0.83 dB/ft Typ at 12 GHz |
| <b>VSWR: SMA Male/RA</b>            | <1.40 to 12.6 GHz        |
| <b>RA/RA</b>                        | <1.35 to 6.4 GHz         |
| <b>Nominal Capacitance:</b>         | 31 pF/ft                 |
| <b>Velocity of Propagation:</b>     | 70%                      |
| <b>Shield Effectiveness:</b>        | Greater than 100 dB      |
| <b>Attenuation (dB/ft):</b>         | 0.15 Typical at 500 MHz  |
| <i>*connector loss not included</i> | 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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Rev.: E  
Date: 06-14-16



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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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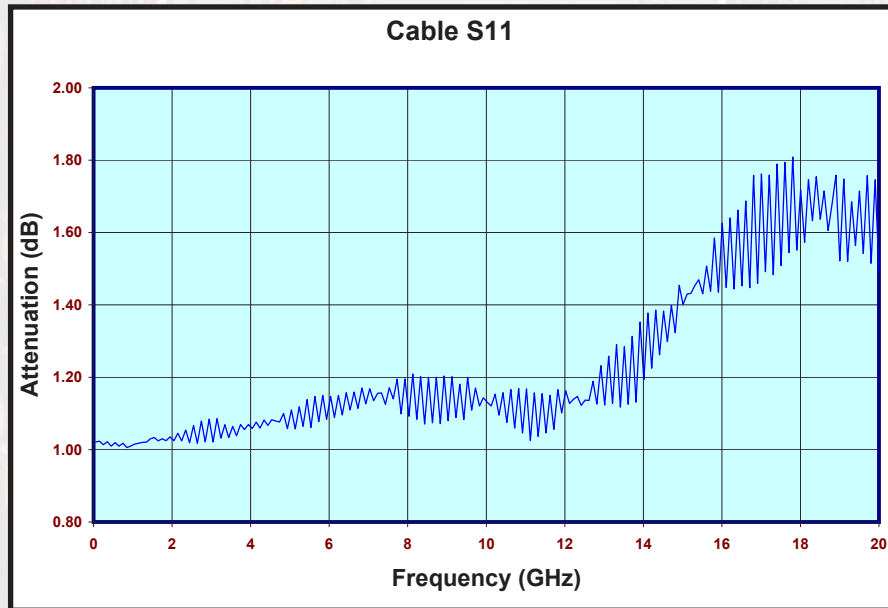


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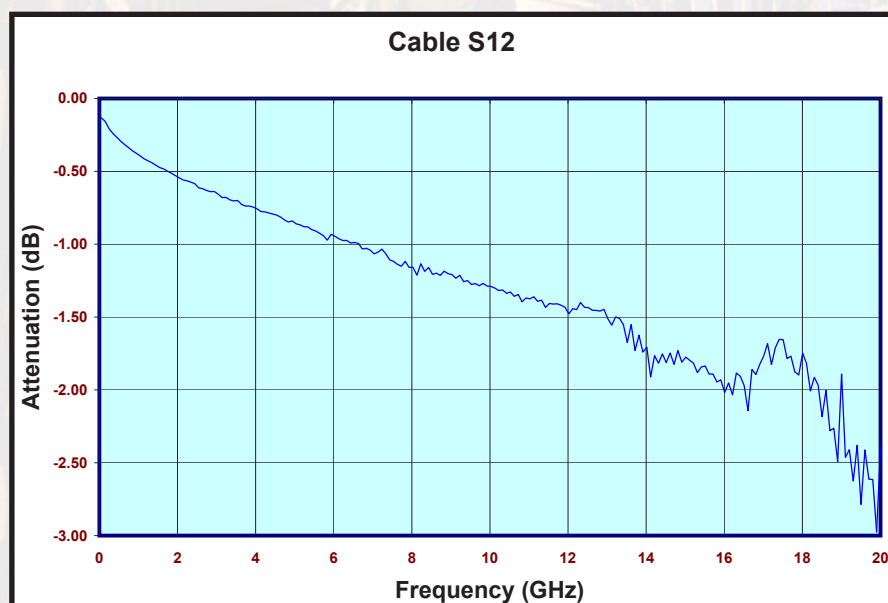
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**S11 Actual Data Plot PN: CCSMA121-MM-086F-24**



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



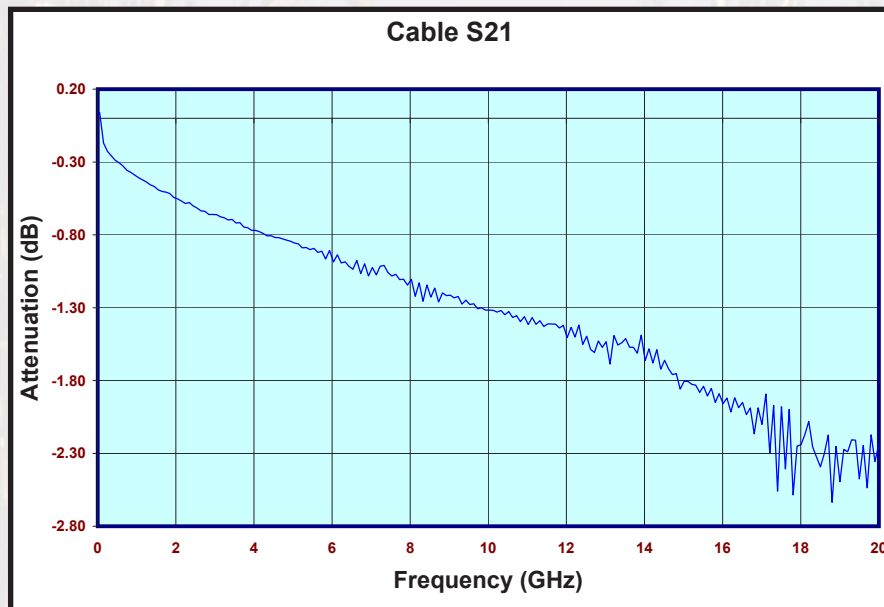


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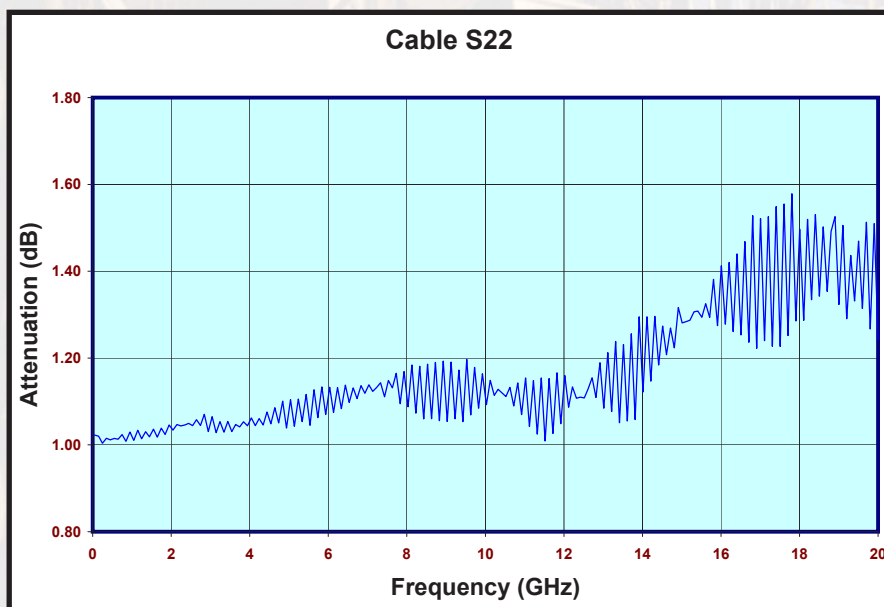
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**S21 Actual Data Plot PN: CCSMA121-MM-086F-24**



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



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