



# CRYSTEK MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

## FLEXIBLE .086 PRECISION 18 GHZ RF COAX CABLE ASSEMBLIES



### 086 Flexible 50 Ohm 18 GHz 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.

#### Available Connector Terminations:

- SMA Male
- SMA Female
- SMA Male Right Angle (Refer to 086F\_RA)



*Custom Lengths Available  
Phase Matching Available*

#### Electrical Specifications:

- Impedance:** 50 Ohms
- Frequency:** Up to 18 GHz
- Insertion Loss:** 1.06 dB/ft Typ at 18 GHz
- VSWR:** <1.3 to 18 GHz
- Nominal Capacitance:** 31 pF/ft
- Velocity of Propagation:** 70%
- Shield Effectiveness:** Greater than 100 dB
- Min. Breakdown Volt.** 4.3 kV
- Attenuation (dB/ft):** 0.15 Typical at 500 MHz  
0.21 Typical at 1 GHz  
0.38 Typical at 3 GHz  
0.56 Typical at 6 GHz  
0.83 Typical at 12 GHz  
1.06 Typical at 18 GHz

- Max Power in (Kwatts):** 0.18 @ 500 MHz  
0.13 @ 1 GHz  
0.08 @ 3 GHz  
0.05 @ 6 GHz  
0.04 @ 12 GHz  
0.03 @ 18 GHz

\*as specified at 25°C/sea level



### SMA Male [Straight] / SMA Male [Straight]

Part Number	Description	Length
CCSMA18-MM-086F-12	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	12"
CCSMA18-MM-086F-24	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	24"
CCSMA18-MM-086F-36	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	36"
CCSMA18-MM-086F-48	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	48"
CCSMA18-MM-086F-60	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	60"
CCSMA18-MM-086F-72	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	72"
CCSMA18-MM-086F-120	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	120"



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12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913  
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Rev.: F  
Date: 02-22-17





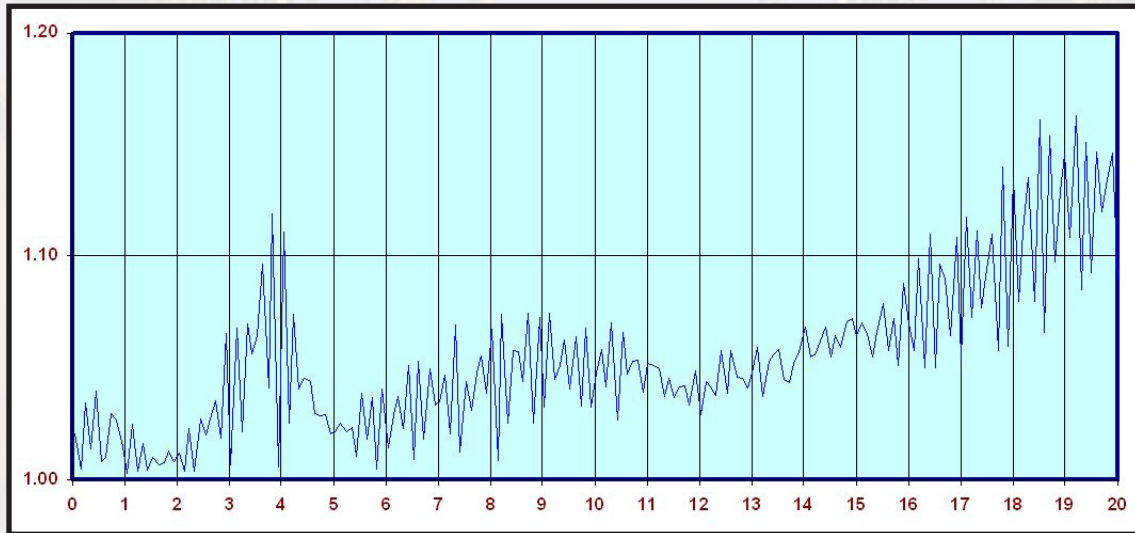
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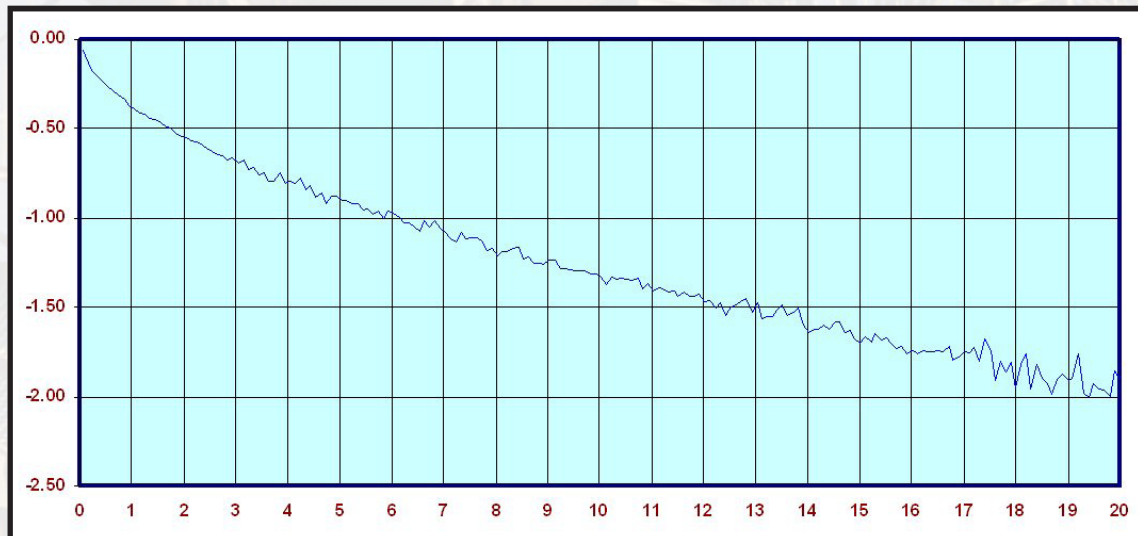
**S11**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



**S12**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



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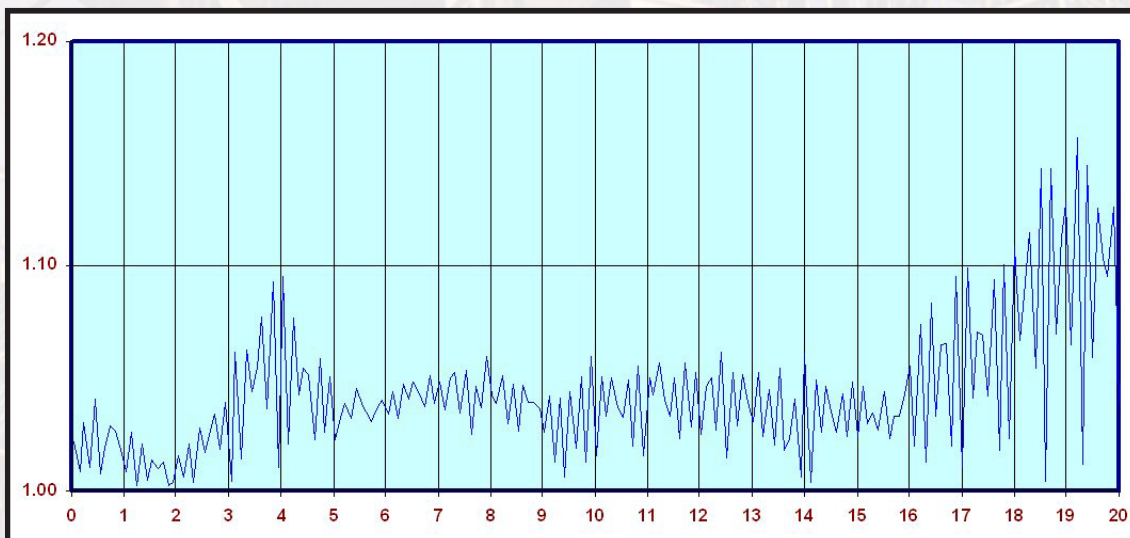
**S21**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



**S22**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



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