



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

# FLEXIBLE 086 PRECISION 18GHZ RF COAX CABLE ASSEMBLIES



## 086 Flexible 50 Ohm 18GHz Coaxial Cables

### Features:

- Strain Relief:** Heavy duty adhesive strain relief.
- Center Conductor:** SPCS (Silver-plated copper solid)
- Inner Braid:** Flat Silver plated copper strip
- Outer Braid:** PC (Round Silver-plated copper braid)
- Dielectric:** PTFE (Polytetrafluoroethylene)
- Jacket:** ETFE (Ethylene Tetrafluoroethylene Copolymer)
- Cable Outer Dia.** 0.100 (2.54mm)
- Connectors:** Gold Plated Brass
- Center Pin:** GPBC( Gold-plated brass)
- Jacket Color:** Blue
- Operating Temperature:** -45°C to +85°C  
(Also available in -55°C to +125°C)
- Minimum Bend Radius:** 0.15"

### Electrical Specifications:

- Impedance:** 50 Ohms
- Frequency:** Up to 18 GHz
- Insertion Loss:** 1.06 dB/ft Typ. at 18GHz
- VSWR:** <1.3 to 18GHz
- Nominal Capacitance:** 29 pF/ft
- Velocity of Propagation:** 70%
- RF Shielding:** < -100 dB
- Attenuation (dB/ft):** 0.15 Typ. at 500MHz  
\*connector loss not included
- 0.21 Typ. at 1GHz
- 0.38Typ. at 3GHz
- 0.56 Typ. at 6GHz
- 0.83 Typ at 12GHz
- 1.06 Typ at 18GHz

- Max Power in (Kwatts):** 0.18 @ 500MHz
- \*as specified at 25°C/sea level
- 0.13 @ 1GHz
- 0.08 @ 3GHz
- 0.05 @ 6GHz
- 0.04 @ 12GHz
- 0.03 @ 18GHz

### Available Connector Terminations:

- SMA Male
- SMA Female
- SMA Male Right Angle



*Custom Lengths Available*



### SMA / SMA [Straight/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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Rev.: A  
 Date: 02-21-11



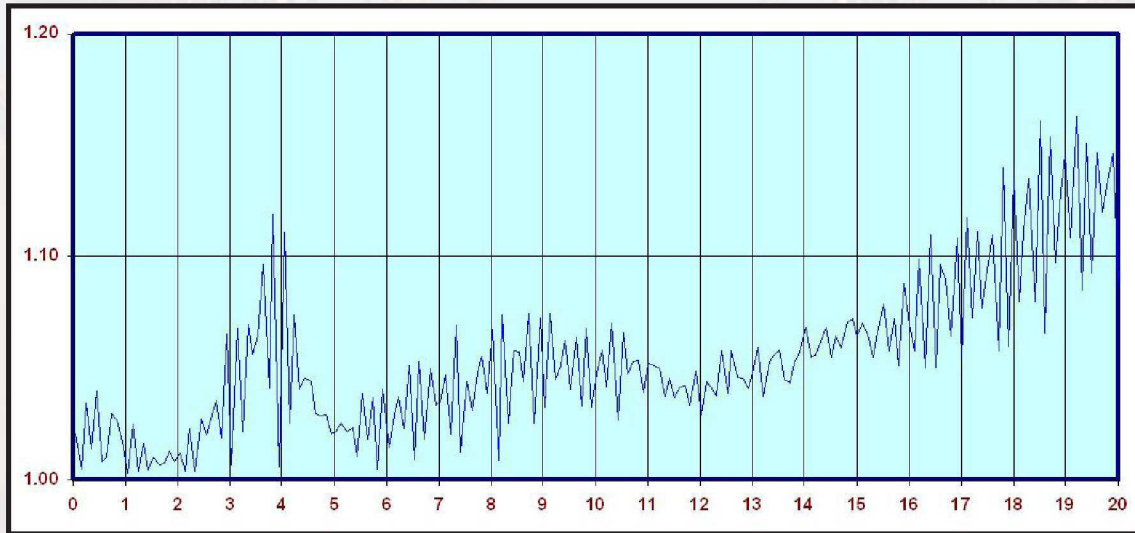
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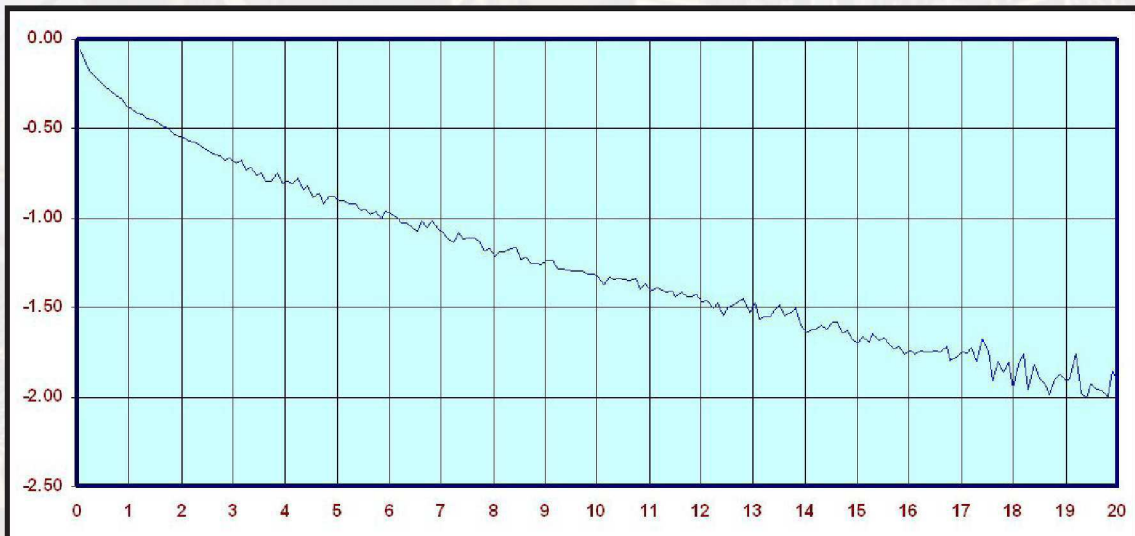
**S11**

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



**S12**

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



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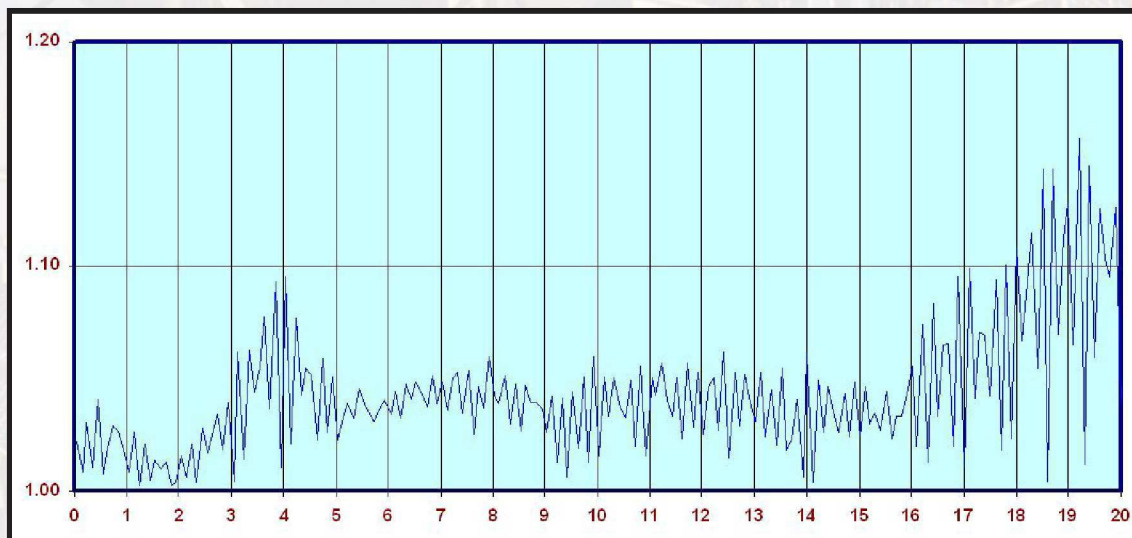
**S21**

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



**S22**

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



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