



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

## 12 GHz HAND FORMABLE .086 COAX CABLES



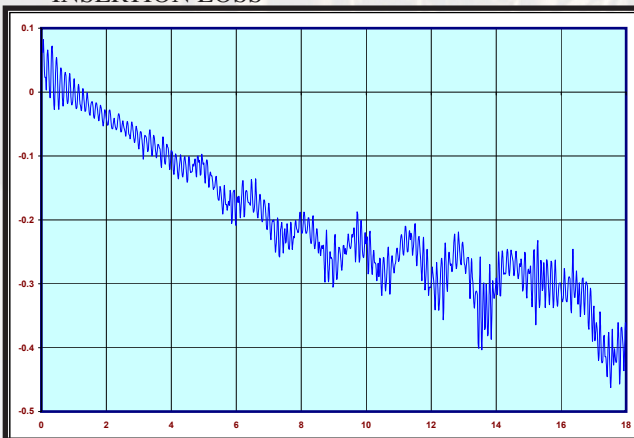
### 50 Ohm DC-12 GHz Hand Formable Coaxial Cables

**Features:**

- Center Conductor:** Silver-plated copper clad steel wire
- Outer Braid:** Tin-soaked copper braid, 100% coverage
- Insulation:** PTFE (Polytetrafluoroethylene) dielectric
- Cable Outer Diameter:** 0.086" (2.2mm)
- Connectors:** Gold-plated brass
- Center Pin:** Gold-plated brass
- Operating Temperature:** -40°C to +85°C
- Minimum Bend Radius:** 0.24" (6mm) single bend  
0.99" (25mm) multiple bends

*Electrically Matched Pairs Available*

PN: CCSMA-MM-086-3  
 INSERTION LOSS



**Electrical Specifications:**

- Impedance:** 50 Ohms
- Frequency:** DC to 12 GHz
- Insertion Loss:** <0.82 dB/ft at 12 GHz
- VSWR:** <1.3, DC to 12 GHz
- Nominal Capacitance:** 28.6 pF/ft
- Velocity of Propagation:** 70%
- Break Down Voltage:** 1.5KV rms
- Shield Effectiveness:** Greater than 130 dB
- Attenuation (dB/ft):** 0.30 Typical at 2 GHz  
0.46 Typical at 4 GHz  
0.70 Typical at 8 GHz  
0.76 Typical at 10 GHz  
0.82 Typical at 12 GHz  
\*connector loss not included (refer to actual cable plot (below))
- Max Power in (Watts):** 253 @ 400 MHz  
157 @ 1 GHz  
47 @ 10 GHz  
\*as specified at 40°C, sea level

- Applications:** Jumpers  
 Instrumentation  
 High Frequency Interconnects



### SMA / SMA [Straight/Straight]

Part Number	Description	Length
CCSMA-MM-086-3	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	3"
CCSMA-MM-086-4	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	4"
CCSMA-MM-086-5	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	5"
CCSMA-MM-086-6	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	6"
CCSMA-MM-086-7	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	7"
CCSMA-MM-086-8	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	8"
CCSMA-MM-086-10	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	10"
CCSMA-MM-086-12	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	12"
CCSMA-MM-086-18	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	18"
CCSMA-MM-086-24	.086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight	24"



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