



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

# 18 GHz HAND FORMABLE .141 COAX CABLES



## 50 Ohm DC-18 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:** 0.141" (3.58mm)
- Connectors:** Gold-plated brass
- Center Pin:** Gold-plated brass
- Operating Temperature:** -40°C to +85°C
- Minimum Bend Radius:** 0.39" (10mm) single bend  
1.57" (40mm) multiple bends

### Electrical Specifications:

- Impedance:** 50 Ohms
  - Frequency:** DC to 18 GHz
  - Insertion Loss:** <.67 dB/ft at 18 GHz
  - VSWR:** <1.3, DC to 18 GHz
  - Nominal Capacitance:** 28.6 pF/ft
  - Velocity of Propagation:** 70%
  - Shield Effectiveness:** 130 dB Typical
  - Attenuation (dB/ft):** 0.12 Typical at 1 GHz  
0.23 Typical at 3 GHz  
0.31 Typical at 5 GHz  
0.46 Typical at 10 GHz  
0.65 Typical at 18 GHz
- \*connector loss not included  
 (refer to actual cable plot below)

- Avg Power in (Watts):** 686 @ 400 MHz  
419 @ 1 GHz  
122 @ 10 GHz  
83 @ 18 GHz
- \*as specified at 40°C

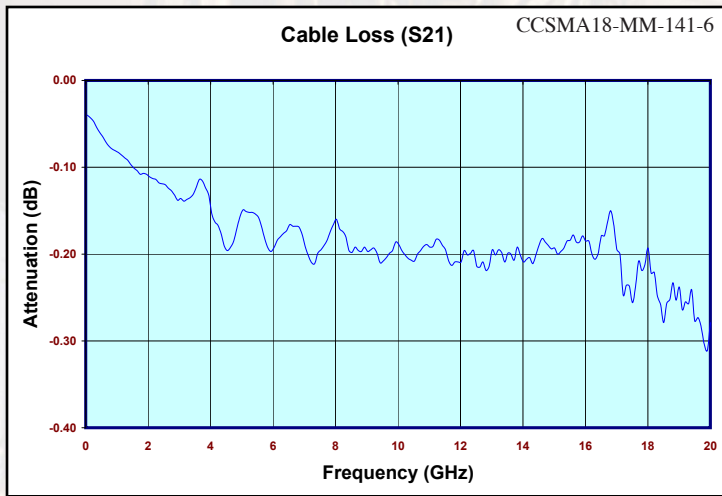
- Applications:** Jumpers  
Instrumentation  
High Frequency Interconnects



Custom Lengths Available

Electrically Matched Pairs Available

Actual Plot



### SMA / SMA [Straight/Straight]

| Part Number       | Description   | Length |
|-------------------|---|--------|
| CCSMA18-MM-141-3  | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 3"     |
| CCSMA18-MM-141-4  | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 4"     |
| CCSMA18-MM-141-5  | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 5"     |
| CCSMA18-MM-141-6  | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 6"     |
| CCSMA18-MM-141-7  | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 7"     |
| CCSMA18-MM-141-8  | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 8"     |
| CCSMA18-MM-141-10 | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 10"    |
| CCSMA18-MM-141-12 | .141 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 12"    |



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Rev.: B  
 Date: 04-07-14

# Mouser Electronics

Authorized Distributor

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