



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

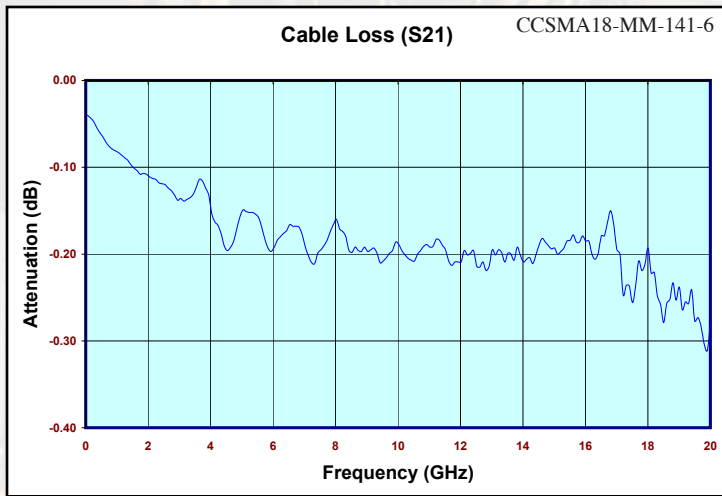
- Applications:** Jumpers
Instrumentation
High Frequency Interconnects



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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