



# CRYSTEK

## MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

### 18 GHZ PRECISION RF COAX CABLE ASSEMBLIES WITH STAINLESS STEEL CONNECTORS



#### SS402 50 Ohm 18 GHz Precision Coaxial Cables

#### Features:

- Strain Relief:** Heavy duty adhesive strain relief
- Center Conductor:** SPCCS (Silver-Plated Copper Clad Steel)
- Inner Shielding:** SS (Spiral Strip Of Silver-Plated Copper)
- Outer Braid:** SPC (Silver-Plated Copper Braid)
- Insulation:** PTFE (Polytetrafluoroethylene) dielectric
- Jacket:** ETFE (Ethylene Tetrafluoroethylene Copolymer)
- Cable Outer Diameter:** 0.163" (4.14mm)
- Connectors:** SST, corrosion-resistant, per ASTM-A582 (Passivated finish per SAE-AMS-2700)
- Center Pin:** GPBC (Gold-Plated Beryllium Copper)
- Jacket Color:** Blue
- Operating Temperature:** -45°C to +85°C

**Minimum Bend Radius:** 0.8" (20.32mm)  
*Custom Lengths Available*

- Available Connector Terminations:
- SMA Male
  - SMA Male Right Angle
  - Type N Male
  - Type N Bulkhead Female



#### Electrical Specifications:

- Impedance:** 50 Ohms
- Frequency:** 18 GHz
- Insertion Loss:** 0.66 dB/ft Typ at 18 GHz
- VSWR:** <1.3, DC to 18 GHz
- Nominal Capacitance:** 29 pF/ft
- Velocity of Propagation:** 70%
- Shield Effectiveness:** Greater than 110 dB
- Attenuation (dB/ft):** 0.08 Typical at 500 MHz  
\*connector loss not included  
0.11 Typical at 1 GHz  
0.21 Typical at 3 GHz  
0.32 Typical at 6 GHz  
0.50 Typical at 12 GHz  
0.66 Typical at 18 GHz

- Avg Power in (Watts):** 920 @ 500 MHz  
\*as specified at 25°C  
620 @ 1 GHz  
360 @ 3 GHz  
220 @ 6 GHz  
150 @ 12 GHz  
120 @ 18 GHz

#### Mechanical Specifications:

- Connector Corrosion (salt spray):** MIL-STD-202, method 101, test cond. B 5% salt solution.
- Connector Durability:** 500 connections Minimum

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

Part Number	Description	Length
CCSMA-MM-SS402-6	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	6"
CCSMA-MM-SS402-12	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	12"
CCSMA-MM-SS402-24	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	24"
CCSMA-MM-SS402-36	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	36"
CCSMA-MM-SS402-48	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	48"
CCSMA-MM-SS402-60	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	60"
CCSMA-MM-SS402-72	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	72"
CCSMA-MM-SS402-120	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	120"



**CRYSTEK**  
CORPORATION

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 COAX CABLE ASSEMBLIES  
 WITH STAINLESS STEEL  
 CONNECTORS**



**SMA Male [Straight/Right Angle]**

Part Number	Description	Length
CCSMA1-MM-SS402-6	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	6"
CCSMA1-MM-SS402-12	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	12"
CCSMA1-MM-SS402-24	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	24"
CCSMA1-MM-SS402-36	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	36"
CCSMA1-MM-SS402-48	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	48"
CCSMA1-MM-SS402-60	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	60"
CCSMA1-MM-SS402-72	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	72"
CCSMA1-MM-SS402-120	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	120"

**SMA Male[Right Angle/Right Angle]**

Part Number	Description	Length
CCSMA2-MM-SS402-6	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	6"
CCSMA2-MM-SS402-12	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	12"
CCSMA2-MM-SS402-24	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	24"
CCSMA2-MM-SS402-36	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	36"
CCSMA2-MM-SS402-48	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	48"
CCSMA2-MM-SS402-60	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	60"
CCSMA2-MM-SS402-72	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	72"
CCSMA2-MM-SS402-120	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	120"



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