



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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 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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