



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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