



CRYSTEK
MICROWAVE
 A DIVISION OF CRYSTEK CORPORATION

18GHZ PRECISION RF COAX CABLE ASSEMBLIES WITH STAINLESS STEEL CONNECTORS



SS402 50 Ohm 18GHz 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
- Cable Outer Dia.** 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
(Also available in -55°C to +125°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
- Type N Male Right Angle
- TNC Male
- TNC Bulkhead Female
- TNC Male Right Angle

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"

Electrical Specifications:

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



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

Mechanical Specifications:

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



CRYSTEK
 CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913
 PHONE: 239-561-3311 • 800-237-3061 Rev.: H
 FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 05-29-13



CRYSTEK
MICROWAVE
 A DIVISION OF CRYSTEK CORPORATION

**18GHZ PRECISION RF
 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"



CRYSTEK
 CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913
 PHONE: 239-561-3311 • 800-237-3061
 FAX: 239-561-1025 • WWW.CRYSTEK.COM

Rev.: H
 Date: 05-29-13



CRYSTEK

MICROWAVE

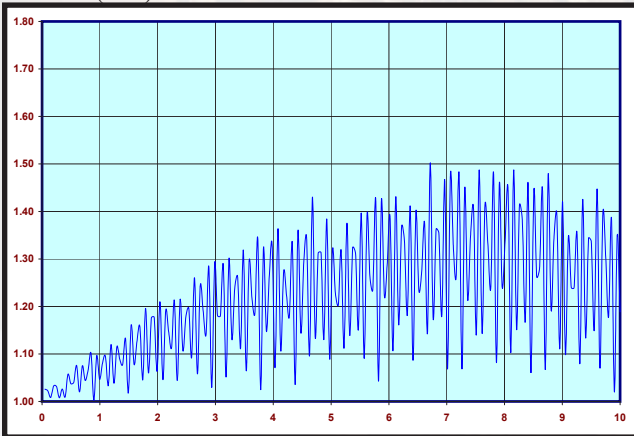
A DIVISION OF CRYSTEK CORPORATION

18GHZ PRECISION RF COAX CABLE ASSEMBLIES WITH STAINLESS STEEL CONNECTORS

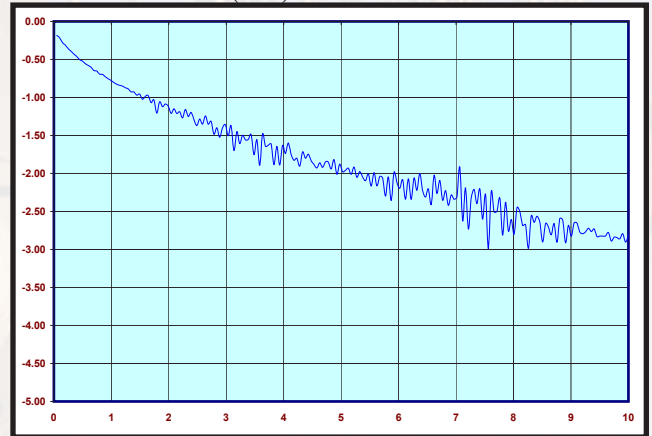


Data plots contained within this specification is generated from actual production cable assemblies. This data represents the typical performance that can be expected from each cable assembly. The data is plotted from raw data without modification (IE: Smoothing or Averaging.)

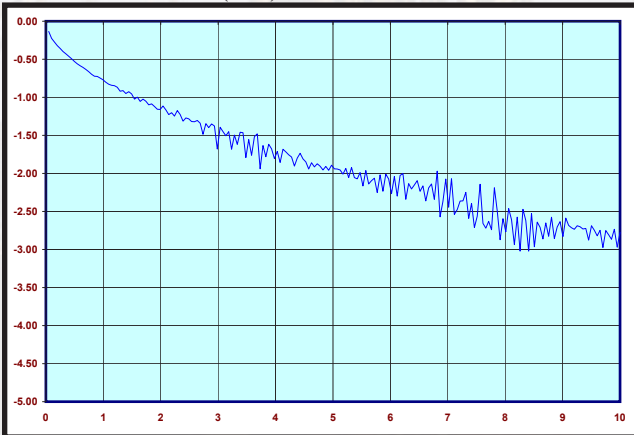
PN: CCSMA-MM-SS402-60
VSWR (S11)



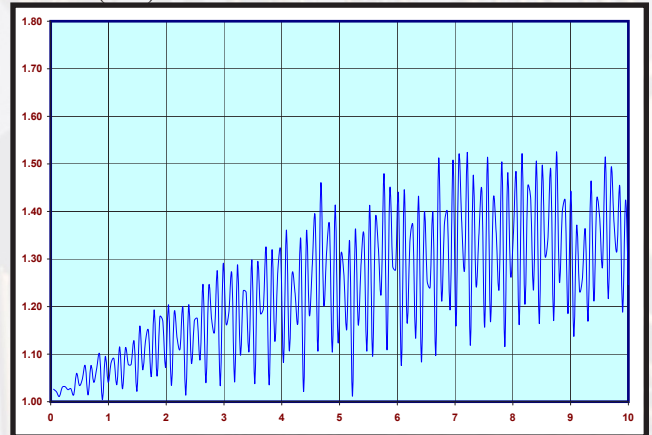
PN: CCSMA-MM-SS402-60
INSERTION LOSS (S12)



PN: CCSMA-MM-SS402-60
INSERTION LOSS (S21)



PN: CCSMA-MM-SS402-60
VSWR (S22)



CRYSTEK
CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913
PHONE: 239-561-3311 • 800-237-3061 Rev.: H
FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 05-29-13