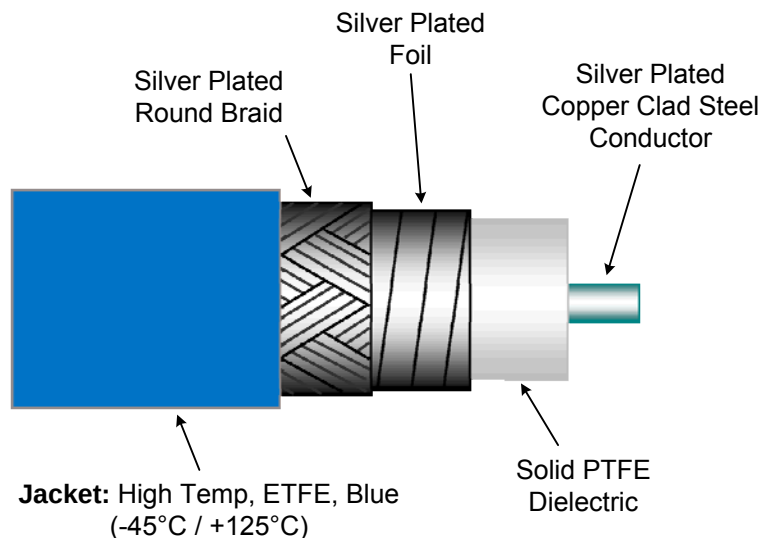


CRYSTEK
MICROWAVE
A DIVISION OF CRYSTEK CORPORATION

Crystek SS402 Cable



Printing: "Crystek SS402 yyww-xx" (spacing 12")

Packaging: 100' and less in bulk coil

Greater than 100' on reel

yyww = date code, xx = sequential dash # for each splice (-01, -02, -03, etc.)

(This cable series is constructed in accordance with MIL-DTL-17)

Center Conductor: Silver Plated Copper Clad Steel
Dielectric: Type F per ASTM D4894 or D4895, Semisolid PTFE (proprietary)
Primary Shield: Silver Plated Copper per ASTM B298
Second Shield: Silver Plated Copper per ASTM B298
High Temp Jacket: Type X per ASTM D3159, ETFE
(Flame Resistance and Smoke = UL94 V-0)
Outdoor Jacket: Type XII Polyurethane (optional)
(Zero Halogen, Flame Resistance and Smoke = UL94 V-0)

Electrical Properties (Cable Only)

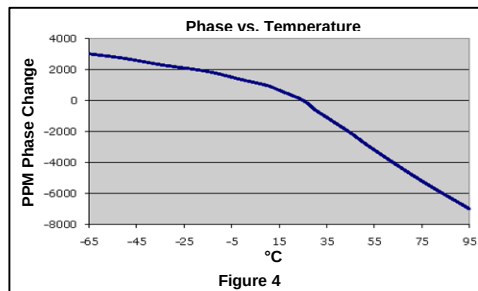
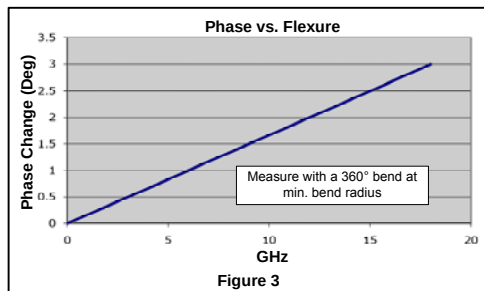
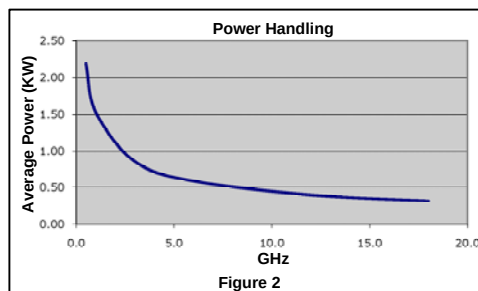
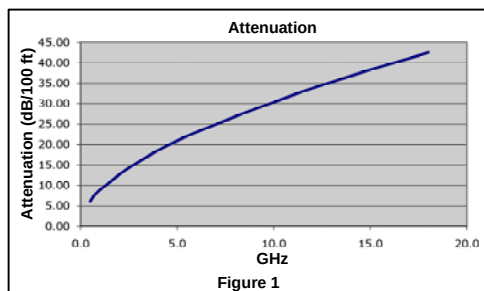
Impedance (Ω)	50
Velocity of Propagation (%)	70
Shielding Effectiveness (dB)	>100
Phase vs. Flexure	Figure 3
Phase vs. Temperature	Figure 4
Min Breakdown Voltage (kV)	7
Capacitance (pF/ft)	29
Inductance (nH/ft)	72
Max Operating Freq (GHz)	18.0
Max Structural VSWR	1.25:1

Physical Properties (Cable Only)

Maximum Temperature (°C)	-65/+125
Recommended Temperature (°C)	-45/+125
High Temp. Jacket Option (in)	0.161
Silver Plated Round Braid O.D. (in)	0.143
Silver Plated Foil O.D. (in)	0.125
Solid PTFE Dielectric O.D. (in)	0.118
Solid Center Conductor (in)	0.036
Inside Min. Bend Radius (in)	0.8
Flexure Life (3× Min. Bend Radius)	>1000
Weight (lbs/ft)	0.028

Attenuation (dB/100ft) @ 25°C

Frequency (GHz)	dB/100 ft	K Watts
0.5	7.94	0.92
1.0	11.59	0.62
3.0	21.65	0.36
6.0	32.79	0.22
12.0	50.73	0.15
18.0	66.23	0.12
K1	10.35	
K2	1.24	



Part Number

CC-SS402



CRYSTEK
CORPORATION

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

Rev. E
09-Jun-2014