



CRYSTEK MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

FLEXIBLE .086 PRECISION 18 GHZ RF COAX CABLE ASSEMBLIES

086 Flexible 50 Ohm 18 GHz Coaxial Cables



Features:

Strain Relief:	Heavy duty adhesive strain relief
Center Conductor:	SPCS (Silver-Plated Copper Solid)
Inner Braid:	Flat silver-plated copper strip
Outer Braid:	PC (Round Silver-Plated Copper Braid)
Dielectric:	PTFE (Polytetrafluoroethylene)
Jacket:	ETFE (Ethylene Tetrafluoroethylene Copolymer)
Cable Outer Diameter:	0.100" (2.54mm)
Connectors:	Gold-plated brass
Center Pin:	Gold-plated brass
Jacket Color:	Blue
Operating Temperature:	-45°C to +85°C

Minimum Bend Radius: 0.15"

Available Connector Terminations:

SMA Male
SMA Female
SMA Male Right Angle (Refer to 086F_RA)

Custom Lengths Available

Phase Matching Available



Electrical Specifications:

Impedance:	50 Ohms
Frequency:	Up to 18 GHz
Insertion Loss:	1.06 dB/ft Typ at 18 GHz
VSWR:	<1.3 to 18 GHz
Nominal Capacitance:	29 pF/ft
Velocity of Propagation:	70%
Shield Effectiveness:	Greater than 100 dB
Attenuation (dB/ft):	0.15 Typical at 500 MHz
<i>*connector loss not included</i>	
	0.21 Typical at 1 GHz
	0.38 Typical at 3 GHz
	0.56 Typical at 6 GHz
	0.83 Typical at 12 GHz
	1.06 Typical at 18 GHz

Max Power in (Kwatts): 0.18 @ 500 MHz

**as specified at 25°C/sea level*

0.13 @ 1 GHz
0.08 @ 3 GHz
0.05 @ 6 GHz
0.04 @ 12 GHz
0.03 @ 18 GHz



SMA Male [Straight] / SMA Male [Straight]

Part Number	Description	Length
CCSMA18-MM-086F-12	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	12"
CCSMA18-MM-086F-24	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	24"
CCSMA18-MM-086F-36	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	36"
CCSMA18-MM-086F-48	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	48"
CCSMA18-MM-086F-60	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	60"
CCSMA18-MM-086F-72	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	72"
CCSMA18-MM-086F-120	.086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	120"



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12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913

PHONE: 239-561-3311 • 800-237-3061 Rev.: D

FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 04-07-14



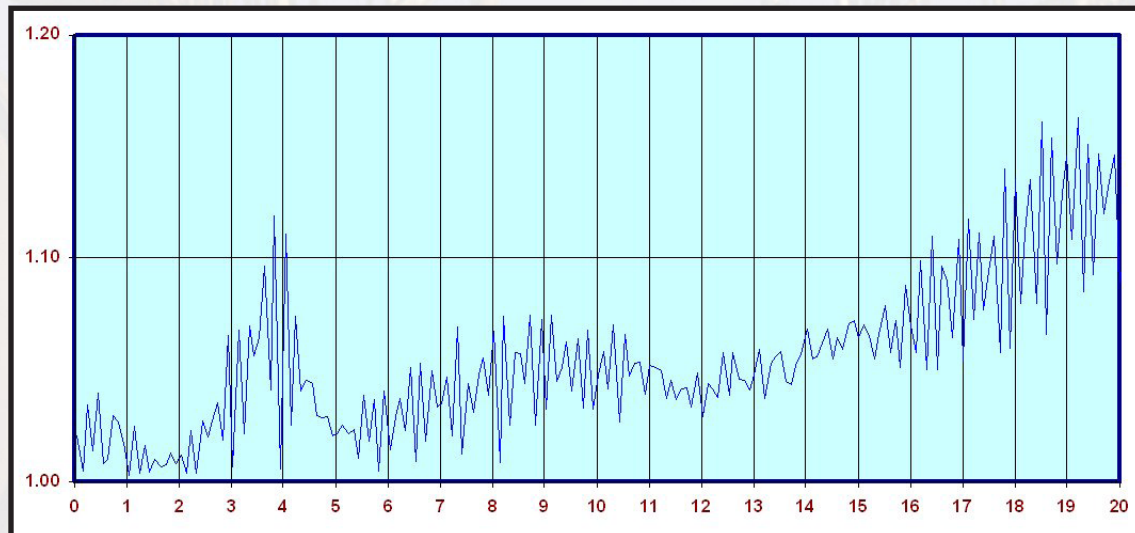
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18 GHZ RF COAX CABLE
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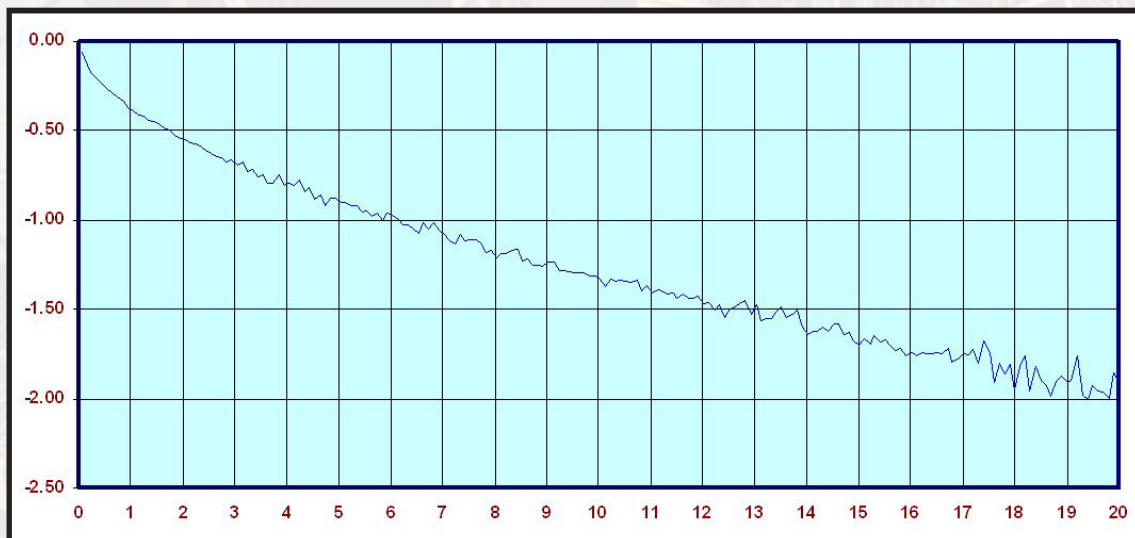
S11

Actual Data Plot PN: CCSMA18-MM-086F-24



S12

Actual Data Plot PN: CCSMA18-MM-086F-24



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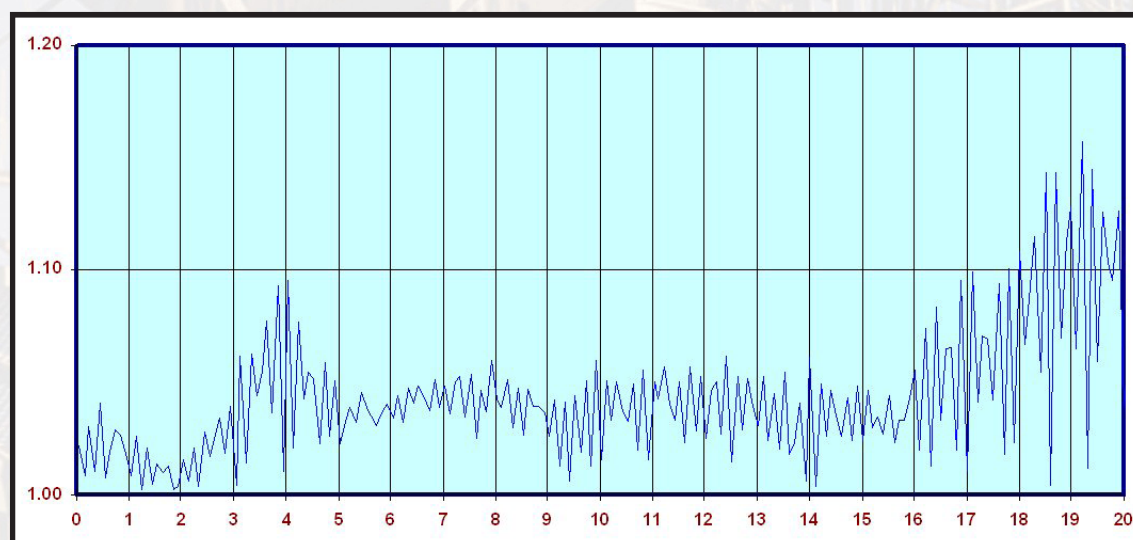
S21

Actual Data Plot PN: CCSMA18-MM-086F-24



S22

Actual Data Plot PN: CCSMA18-MM-086F-24



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Mouser Electronics

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