



CRYSTEK
MICROWAVE
A DIVISION OF CRYSTEK CORPORATION

FLEXIBLE 086 PRECISION 18GHZ RF COAX CABLE ASSEMBLIES

086 Flexible 50 Ohm 18GHz 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 Dia.	0.100 (2.54mm)
Connectors:	Gold Plated Brass
Center Pin:	GPBC(Gold-plated brass)
Jacket Color:	Blue
Operating Temperature:	-45°C to +85°C (Also available in -55°C to +125°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 18GHz
VSWR:	<1.3 to 18GHz
Nominal Capacitance:	29 pF/ft
Velocity of Propagation:	70%
RF Shielding:	< -100 dB
Attenuation (dB/ft):	0.15 Typ. at 500MHz
*connector loss not included	0.21 Typ. at 1GHz
	0.38Typ. at 3GHz
	0.56 Typ. at 6GHz
	0.83 Typ at 12GHz
	1.06 Typ at 18GHz

Max Power in (Kwatts): 0.18 @ 500MHz

*as specified at 25°C/sea level
0.13 @ 1GHz
0.08 @ 3GHz
0.05 @ 6GHz
0.04 @ 12GHz
0.03 @ 18GHz



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.: B

FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 09-18-13



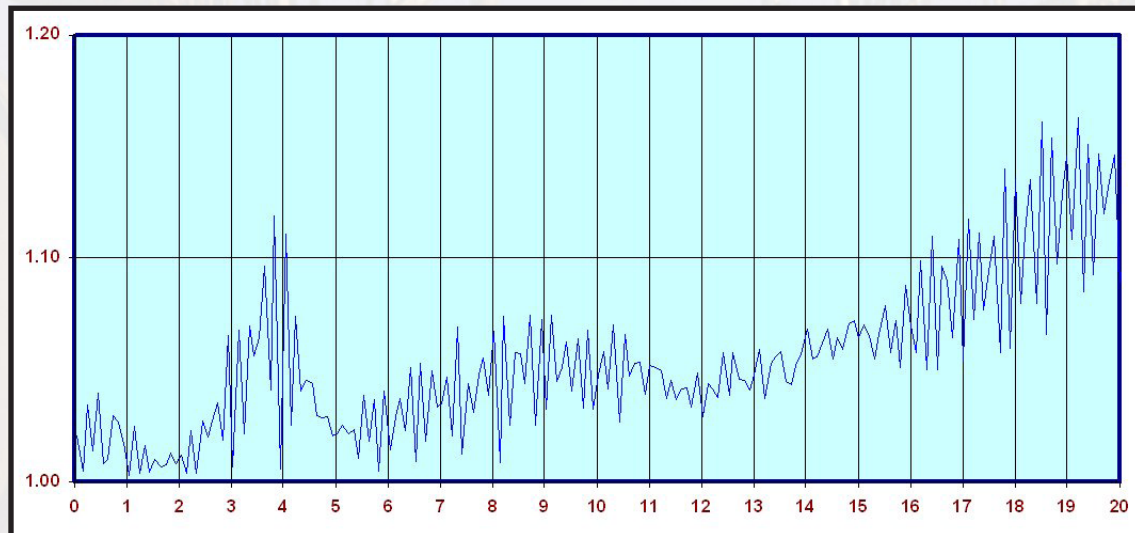
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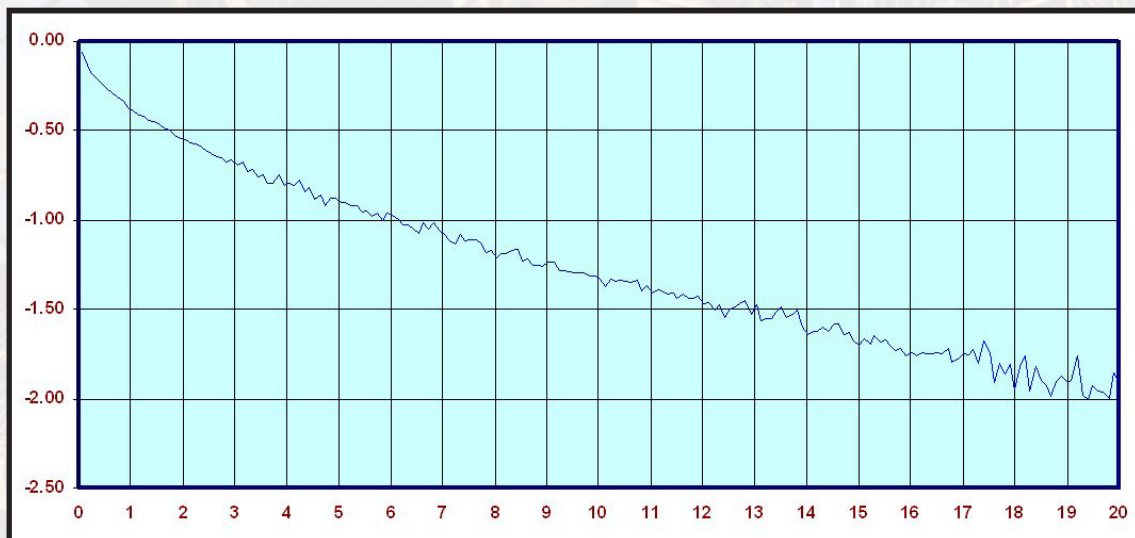
S11

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



S12

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



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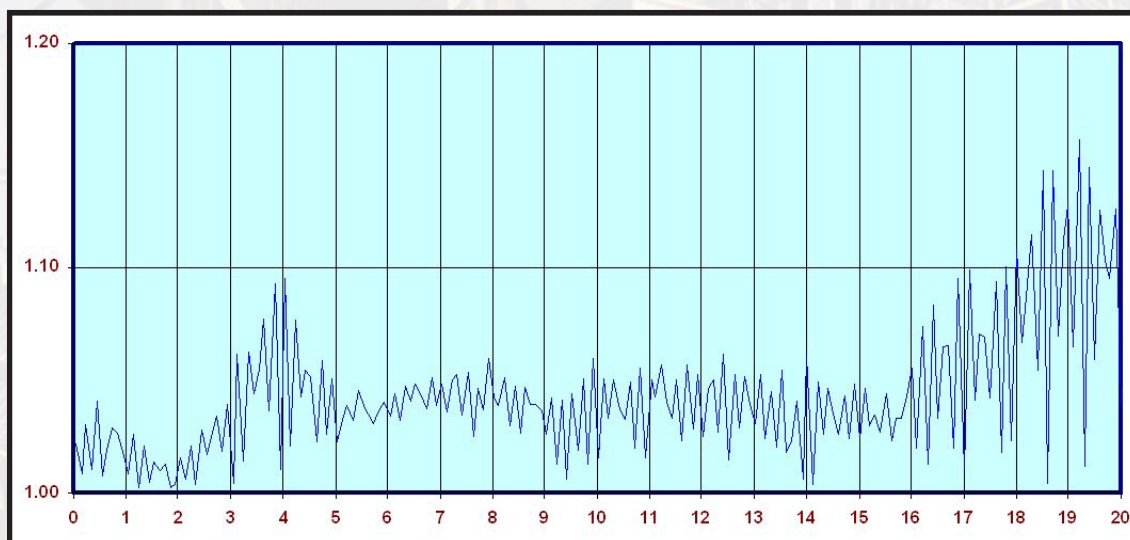
S21

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



S22

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



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