

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:	SPCW (Silver-Plated Copper Clad Steel Wire)
Inner Braid:	SPC (Silver-Plated Copper Wrap Tape)
Outer Braid:	SPC (Silver-Plated Copper Braid)
Dielectric:	PTFE (Polytetrafluoroethylene)
Jacket:	FEP (Flourinated Ethylene Propylene)
Cable Outer Diameter:	0.104 inches (2.64mm)
Connectors:	Gold-Plated Brass
Center Pin:	Gold-Plated Brass
Jacket Color:	Blue
Operating Temperature:	-45°C to +85°C

Static Bend Radius: 0.500 inch (12.70mm) Min

Available Connector Terminations:

- SMA Male
- SMA Female
- SMA Male Right Angle ([Refer to 086F-RA](#))



*Custom Lengths Available
Phase Matching Available*



Electrical Specifications:

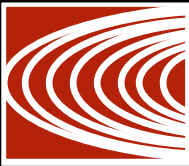
Impedance:	50 Ohms
Frequency:	Up to 18 GHz
Insertion Loss (dB/ft):	1.18 dB/ft Typical at 18 GHz
VSWR:	<1.3 to 18 GHz
Nominal Capacitance:	31 pF/ft
Velocity of Propagation:	70%
Shield Effectiveness:	Greater than 100 dB
Min Breakdown Voltage:	4.3 kV
Attenuation (dB/ft):	0.18 Typical at 500 MHz connector loss not included
	0.24 Typical at 1 GHz
	0.42 Typical at 3 GHz
	0.66 Typical at 6 GHz
	0.89 Typical at 12 GHz
	1.18 Typical at 18 GHz

Max Power (Watts):	198 @ 500 MHz
	as specified at 25°C
	140 @ 1 GHz
	81 @ 3 GHz
	57 @ 6 GHz
	42 @ 12 GHz
	32 @ 18 GHz



SMA Male [Straight] / SMA Male [Straight]

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

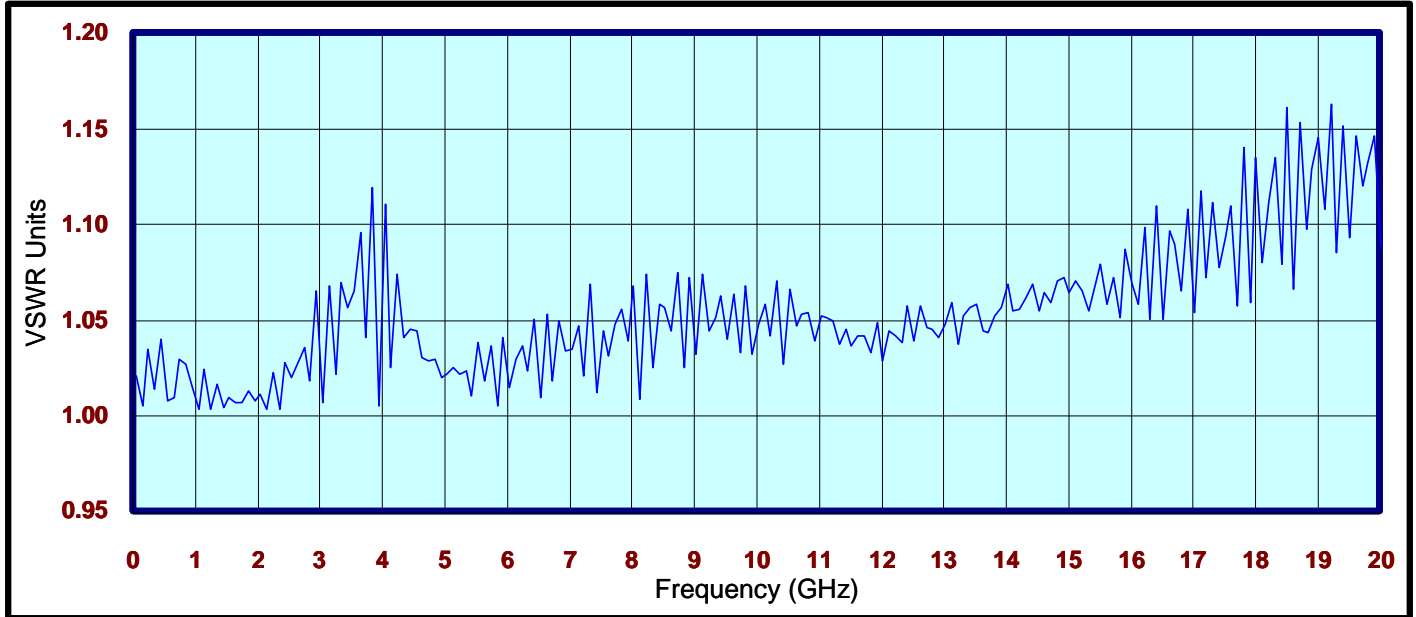


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Data plots contained within this specification are generated from actual production cable assemblies. This data represents the typical performance that can be expected from each cable assembly. The data is plotted from raw data without modification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

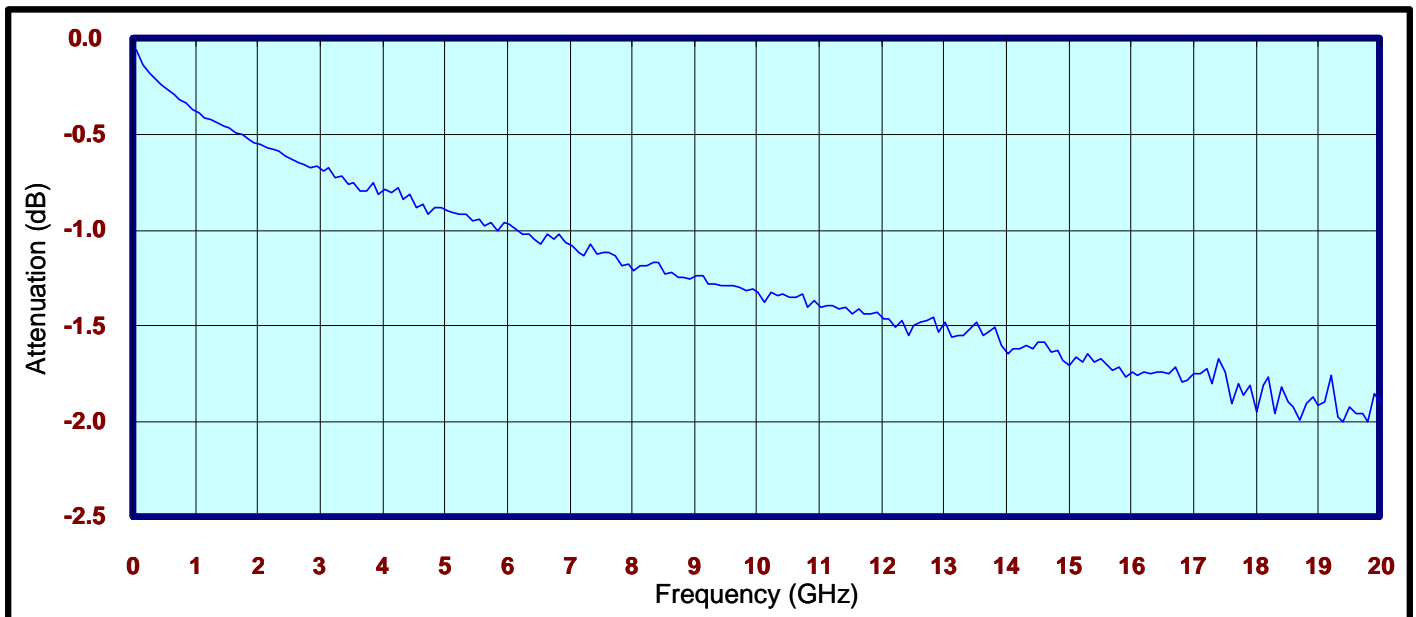
PN: CCSMA18-MM-086F-24

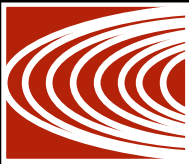
VSWR (S11)



PN: CCSMA18-MM-086F-24

INSERTION LOSS (S12)

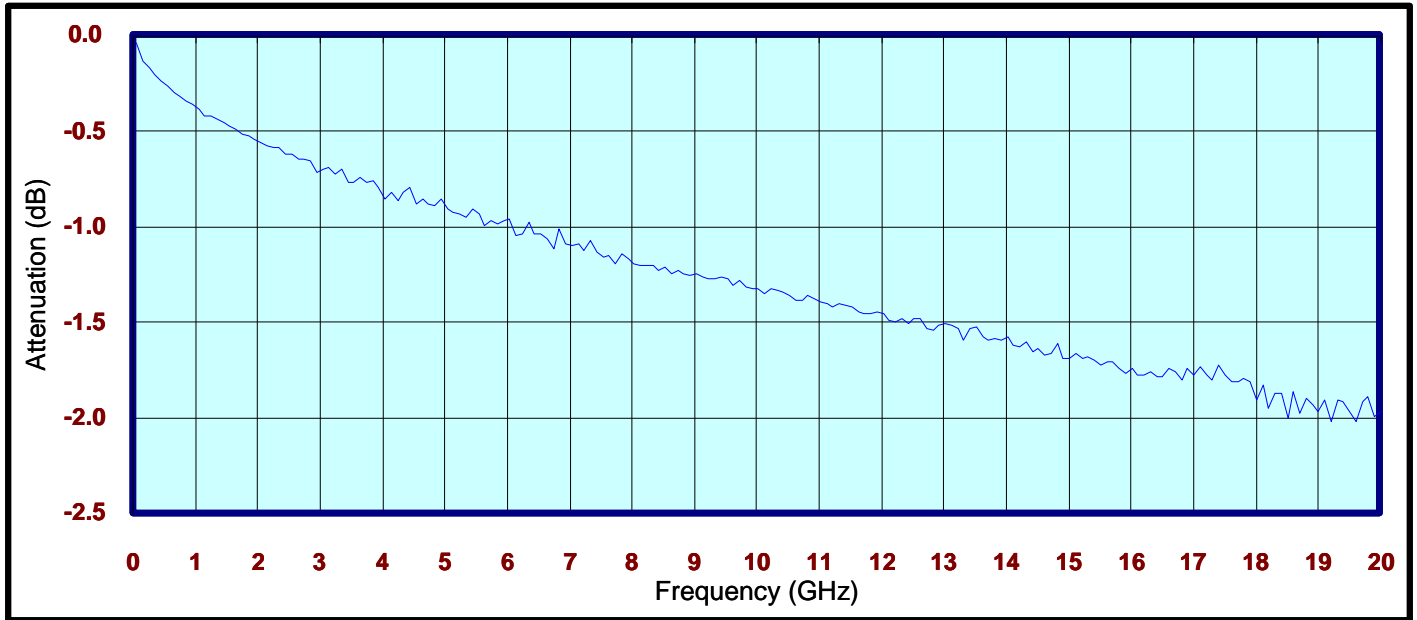




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PN: CCSMA18-MM-086F-24

INSERTION LOSS (S21)



PN: CCSMA18-MM-086F-24

VSWR (S22)

