



SEMI-FLEX 086 Semi-Flexible, Hand Formable Cable Assemblies

Features

- VSWR 1.35:1 Max up to 40GHz
- 70% Phase Velocity
- Tinned Copper Wire Braid
- Shielding Effectivity >100dB
- Connector options SMA / 2.40mm / 2.92mm
- OD, 0.086in / 2.2mm



ELECTRICAL SPECIFICATION (25° C, sea level)				
Description	Min	Typ	Max	Units/Note
Impedance		50Ω		Ohm
Frequency	DC		40	GHz, 2.40mm/2.92mm Connectors
Frequency	DC		18	GHz, SMA Connectors
VSWR, 18GHz			1.20:1	2.40mm/2.92mm Connectors
VSWR, 18GHz			1.30:1	SMA
VSWR, 26.5GHz			1.25:1	2.40mm/2.92mm Connectors
VSWR, 40GHz			1.30:1	2.40mm/2.92mm Connectors
Velocity of Propagation		70		%
Time Delay		4.7		ns/m
Dielectric Withstand		1500		Volts
RF Shielding	100			dB
Capacitance		95		pF/m
Temperature	-55		125	° C

Performance by Frequency, Cable Only		
Frequency (MHz)	Insertion Loss(25° C) dB/ft	Average Power(40° C @ Sea Level) Watts
500	0.14	229
1000	0.20	162
2000	0.29	115
3000	0.37	94
5000	0.49	72
6000	0.54	66
10000	0.73	51
18000	1.03	38
26500	1.31	31
40000	1.70	26

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MECHANICAL SPECIFICATION, CONNECTORS		
Description	Connector 1	Connector 2
Type	SMA/2.92mm/2.40mm	SMA/2.92mm/2.40mm
Interface Spec	MIL-STD-348	MIL-STD-348
Mating Cycles	5000	5000
Hex Wrench Size	5/16 in	5/16 in
Mating Torque	8-10in-lbs/0.9-1.13nm	8-10in-lbs/0.9-1.13nm
Material	Stainless Steel	Stainless Steel
Pin	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE

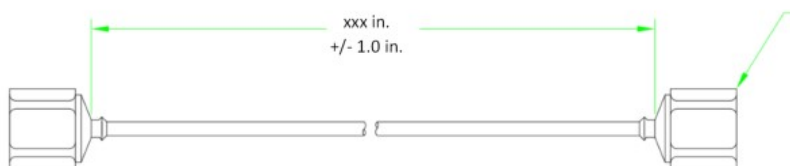
MECHANICAL SPECIFICATION, CABLE	
Description	Specification
Cable Type	SF086
Diameter	0.086in (2.2mm)
Weight	0.016kg/m
Minimum Bend Radius, Static	0.236in. (6.0mm)
Minimum Bend Radius, Dynamic	0.787in. (20.0mm)
Length	Customer Specified

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Ordering Information



Connector Options:

SMA
2.92mm
2.40mm

Part Number Configurator

Series	Connector 1	Connector 2	Length (in)
EM-SF086	XXXX	XXXX	-XXX

Connector 1		Connector 2	
SMA Male Straight	SMAM	SMA Male Straight	SMAM
SMA Male RA	SMAR	SMA Male RA	SMAF
2.92mm Male	292M	2.92mm Male	292M
2.92mm Female	292F	2.92mm Female	292F
2.40mm Male	240M	2.40mm Male	240M
2.40mm Female	240F	2.40mm Female	240F

** - If Connector 1 equals Connector 2, leave Connector 2 blank

Example:

EM-SF086SMAM-048, 48 inch cable with SMA male connectors both ends.

EM-SF086SMAMSMAR-024, 24 inch cable with SMA male and SMA male right angle connectors.

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