

P1CA-SAMSAM-SS085-18

SMA Male to SMA Male RF flex cable using SS085 High Performance Coax, 18 inch

Product Features

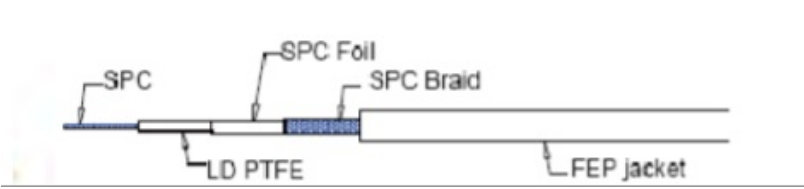
P1CA-SAMSAM-SS085-18 is an RF Flex Cable that is part of P1dB's SS085 series, high performance cable assemblies. It is an 18 inch SMA Male to SMA Male cable assembly that utilizes SS085 High Performance coax, which is 0.104 inches in diameter. The SS085 high performance flex cable operates to 27 GHz with a max VSWR of 1.35:1. P1dB's SS085 cable assemblies are high performance RF cables that are dimensionally equivalent to RG405 semi-rigid and 085 conformable coax cables, and have similar electrical specifications to RG405 coax. SS085 RF flex cables can operate up to 50 GHz, depending on the installed connectors. The advantage of SS085 test cables over other test cables are their cost-effective design that still offer good phase and amplitude stability for general purpose test systems.



Mechanical And Environmental Specifications:

Parameter	Description	Notes
Connector 1	SMA Male	
Connector 2	SMA Male	
Length	18.0	
RoHS Compliance	Yes	

Drawing



Graph

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DIMENSIONS		
Center Conductor Diameter		
(inch)		0.0224
(mm)		0.57
Dielectric Diameter		
(inch)		0.064
(mm)		1.63
Diameter over Foil		
(inch)		0.07
(mm)		1.76
Diameter over Braid		
(inch)		0.085
(mm)		2.15
Jacket Diameter		
(inch)		0.104
(mm)		2.64
MATERIAL SPECIFICATIONS		
Jacket		FEP
Braid		Round silver plated copper
Foil		Flat silver plated copper foil
Dielectric		LD PTFE
Center Conductor		Solid silver plated copper
ELECTRICAL CHARACTERISTICS		
Impedance		50±2
Capacitance (Nominal)		
(pF/ft)		29.4
(pF/m)		96.4
Velocity of Propagation (%)		80
Cutt Off Frequency (GHz)		63
Shielding Effectiveness		> -110dB
Max. Attenuation (dB/100Ft)	Attenuation	
Max Power (Watts)	dB/100Ft	Power
400MHz	11.6	240
1GHz	18.3	160
3GHz	33.9	80
5GHz	42.7	57
10GHz	60.1	44
18GHz	82.4	33
25GHz	97.6	29
30GHz	108.3	26
35GHz	118	23
40GHz	129.3	22
45GHz	142.7	20
50GHz	157.1	18

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MECHANICAL CHARACTERISTICS		
Max. Operating Temperature (°C)	-55/ +200	
Min. Bend Radius (inch) (mm)	Static	Dynamic
	0.25	0.6
	6.35	15
Weight (g/Ft) (α/M)	6 19.7	

Product Notes