

P1CA-STMTPF-ST085-5

SMA Male to SMP Female cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 5 inches long, Operating to 18 GHz.

Product Features

P1CA-STMTPF-ST085-5 is an RF Cable that is part of P1dB's Tight-Flex[™] cable assembly series. It is a 5 inch SMA Male to SMP Female cable assembly that utilizes ST085 Tight-Flex, Triple Shielded coax, which is 0.104 inches in diameter. This Tight-Flex[™] cable assembly operates to 18 GHz with a max VSWR of 1.35.

Tight-Flex[™] cable assemblies are a flexible version of RG405 semi-rigid and 085 conformable coax cables that meet RG405 dimensional and electrical specifications. Tight-Flex[™] cable assemblies can operate up to 40 GHz, depending on the installed connectors. The advantage of Tight-Flex[™] cables over other 085 flex cables are their triple shielding that add additional RF stability even during tight bends.



Electrical Specification: T_{Ambient} = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		18.0	
VSWR	DC to 1.0	1:			1.15	
	1.0 to 5.0				1.2	
	5.0 to 10.0				1.25	
	10.0 to 18.0				1.35	
Insertion Loss	DC to 1.0	dB/ft.			0.21	
	1.0 to 5.0				0.51	
	5.0 to 10.0				0.75	
	10.0 to 18.0				1.04	
Velocity Of Propagation		%		70.0		

Mechanical And Environmental Specifications:

Parameter	Description	Notes
Connector 1	SMA Male	
Connector 1 Coupling Nut	Passivated Stainless Steel	
Connector 1 Body	Passivated Stainless Steel	
Connector 1 Contact	Gold Plated Brass	
Connector 2	SMP Male	
Connector 2 Coupling Nut	None	
Connector 2 Body	Gold Plated Beryllium Copper	
Connector 2 Contact	Gold Plated Beryllium Copper	
Coax Cable	Tight-Flex, Triple Shielded	
Cable Type	ST085	
Cable Inner Conductor	SPCW	
Dielectric	PTFE	
Shield	1. SPC Tape, Aluminum Tape, SPC Braid	
Jacket	FEP	
Coax Diameter	0.104	

P1dB, Inc.

188 Martinvale Lane, San Jose, CA 95119

+1(408)613-4857

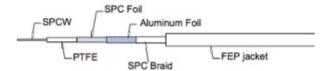


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Parameter	Description	Notes
Minimum Bend Radius	0.2	
Length	5.0	
Operating Temprature	-55.0 to 125.0 °C	
RoHS Compliance	Yes	

Drawing



Graph



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DIMENSIONS		777	
Center Conductor Diameter			
(inch)		0.0201	
(mm)	0.51		
Dielectric Diameter			
(inch)	0.0641		
(mm)	1.63		
Diameter Over Inner Foil			
(inch)	0.0708		
(mm)	1.80		
Diameter Over Outer Foil			
(inch)	0.0748		
(mm)	1.90		
Diameter over Braid		1.00	
(inch)	0.0885		
(mm)	2.25		
Jacket Diameter			
(inch)	0.104		
(mm)	2.64		
MATERIAL SPECIFICATIONS		2.07	
		FEP(BLUE)	
Jacket			
Braid Outer Foil	Round Silver Plated Copper		
Inner Foil	Aliminium Tape Silver Plated Copper Tape		
Dielectic	Silv	Solid PTFE	
Center Conductor	Solid SPCW		
ELECTRICAL CHARACTERISTICS		0010 01 011	
		50±2	
Impedance		0022	
Capacitance (Nominal)			
(pF/ft)	29.4		
(pF/m)	96.4		
Velocity of Propagation (%)	70		
Cutt Off Frequency (GHz)	63		
Shielding Effectiveness	>-110dB		
Max. Attenuation Max Power (Watts)	Attenuation dB/100Ft	on i dB/100M	Power
400MHz	14	45.9	240
1GHz	23	75.4	160
3GHz 5GHz	39 52	128	80
10GHz	52 80	170.6 262.4	57 44
18GHz	110	361	33

Product Notes