

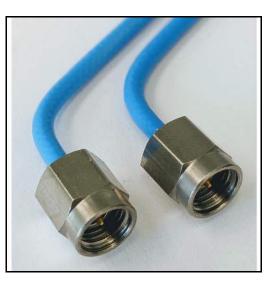
# P1CA-STMSTM-ST085-9

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 9 inches long, Operating to 18 GHz.

### **Product Features**

P1CA-STMSTM-ST085-9 is an RF Cable that is part of P1dB's Tight-Flex<sup>™</sup> cable assembly series. With a minimum bend radius of 0.2 inch, the cable allows bends at the connector end eliminating the need for a right angle connector. This assembly a 9 inch SMA Male to SMA Male cable assembly that utilizes ST085 Tight-Flex, Triple Shielded coax, which is 0.104 inches in diameter. The Tight-Flex<sup>™</sup> cable assembly operates to 18 GHz with a max VSWR of 1.30:1.

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



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				1.3	
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		

### Electrical Specification: T Ambient = 25° C

#### **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	SMA Male		
Connector 2 Coupling Nut	Passivated Stainless Steel		
Connector 2 Body	Passivated Stainless Steel		
Connector 2 Contact	Gold Plated Brass		
Coax Cable	Tight-Flex, Triple Shielded		
Cable Type	ST085		
Cable Inner Conductor	SPCW		
Dielectric	PTFE		
Shield	1. SPC Tape, Aluminum Tape, SPC Braid		

188 Martinvale Lane, San Jose, CA 95119

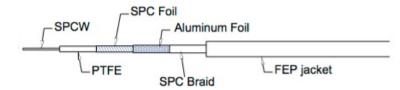


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Parameter	Description	Notes
Jacket	FEP	
Coax Diameter	0.104	
Minimum Bend Radius	0.2	
Length	9.0	
Dperating Temprature -55.0 to 125.0 °C		
RoHS Compliance Yes		

## Drawing



Graph



# P1CA-STMSTM-ST085-9

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 9

inches long, Operating to 18 GHz.

0.0201		
0.01		
1.63		
0.0708		
1.80		
0.0748		
1.90		
2.25		
		1
0.104		
2.64		
FEE	P(BLUE)	
50±2		
29.4		
96.4		
70		
63		
> -110dB		
Attenuation dB/100Ft	dB/100M	Power
db/10011		
14	45.9	240
23	75.4	160
23 39 52	75.4 128 170.6	160 80 57
23 39 52 80	75.4 128 170.6 262.4	160 80 57 44
23 39 52 80 110	75.4 128 170.6 262.4 361	160 80 57 44 33
23 39 52 80	75.4 128 170.6 262.4	160 80 57 44 33 29
23 39 52 80 110 131 146 160	75.4 128 170.6 262.4 361 430 479 525	160 80 57 44 33 29 26 23
23 39 52 80 110 131 146	75.4 128 170.6 262.4 361 430 479	160 80 57 44 33 29 26
	FEF Round Silv Alim Silver Pla Silver Pla Silver Pla Silver Pla	1.80   0.0748   1.90   0.0885   2.25   0.104   2.64   FEP(BLUE)   Round Silver Plated Copper   Aliminium Tape   Solid PTFE   Solid SPCW   50±2   29.4   96.4   70   63   > -110dB

### **Product Notes**

Temp range: -55 to +125 deg C

Minimum bend radius: 0.2 inch (5.1 mm)