SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 6 inches long, Operating to 18 GHz.

Product Features

P1CA-STMSTM-ST085-6 is an RF Cable that is part of P1dB's Tight-Flex[™] 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 6 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[™] cable assembly operates to 18 GHz with a max VSWR of 1.30:1.

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				1.3	
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	1.04
Velocity Of Propagation		%		70.0		

Mechanical And Environmental Specifications:

Parameter	Description	Notes
Connector 1	SMA Male	

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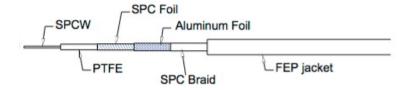
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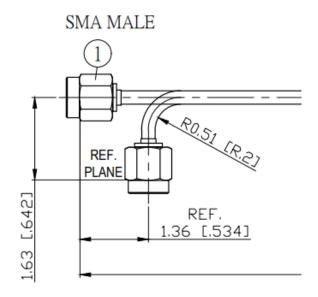
Parameter	Description	Notes	
Connector 1 Coupling Nut	Passivated Stainless Steel		
Connector 1 Body	Passivated Stainless Steel		
Connector 1 Contact	Gold Plated Brass		
Connector 2	SMA Male		
Connector 2 Coupling Nut	Passivated Stainless Steel		
Connector 2 Body	Passivated Stainless Steel		
Connector 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		
Jacket	FEP		
Coax Diameter	0.104		
Minimum Bend Radius	0.2		
Length	6.0		
RoHS Compliance	Yes		

Drawing



Graph

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 6 inches long, Operating to 18 GHz.



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DIMENSIONS				
Center Conductor Diameter				
(inch)	0.0201			
(mm)		0.51		
Dielectric Diameter				
(inch)		0.0641		
	0.0641			
(mm)	1.63			
Diameter Over Inner Foil		0.0700		
(inch)	0.0708			
(mm)	1.80			
Diameter Over Outer Foil				
(inch)	0.0748			
(mm)	1.90			
Diameter over Braid				
(inch)	0.0885			
(mm)	2.25			
Jacket Diameter				
(inch)	0.104			
(mm)	2.64			
MATERIAL SPECIFICATIONS				
Indicat		FEP(BLUE)		
Jacket Braid				
Outer Foil	Round Silver Plated Copper			
Inner Foil	Aliminium Tape			
Dielectic	Silver Plated Copper Tape Solid PTFE			
Center Conductor		Solid SPCW		
ELECTRICAL CHARACTERISTICS				
To the state of th		50±2		
Impedance				
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		Power	
Max Power (Walts)	dB/100Ft	dB/100M		
400MHz	14	45.9	240	
1GHz 3GHz	23 39	75.4 128	160 80	
5GHz	52	170.6	57	
10GHz	80	262.4	44	
18GHz	110 361		33	
25GHz	131 430		29	
30GHz	146 479		26	
35GHz	160 525 23			
40GHz	173	567	22	
45GHz	183	600	20	
50GHz	195	640	18	

Product Notes

Temp range: -55 to +125 deg C

Minimum bend radius: 0.2 inch (5.1 mm)

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