

P1CA-STMSTM-ST085-12

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 12 inches long, Operating to 18 GHz.

Product Features

P1CA-STMSTM-ST085-12 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 12 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.			0.2	
	1.0 to 5.0				0.5	
	5.0 to 10.0				0.8	
	10.0 to 18.0				1.1	
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	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		

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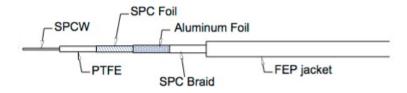


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Parameter	Description	Notes
Jacket	FEP	
Coax Diameter	0.104	
Minimum Bend Radius	0.2	
Length	12.0	
Operating Temprature	-55.0 to 125.0 °C	
RoHS Compliance	Yes	

Drawing



Graph



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DIMENSIONS					
Center Conductor Diameter					
(inch)		0.0201			
(mm)		0.51			
Dielectric Diameter		0.01			
		0.0044			
(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					
(inch)	0.0885				
(mm)		2.25			
Jacket Diameter		2.20			
(inch)	0.104				
(mm)	2.64				
MATERIAL SPECIFICATIONS		2.04			
MATERIAL SPECIFICATIONS					
Jacket	FEP(BLUE)				
Braid	Round Silver Plated Copper				
Outer Foil	Aliminium Tape				
Inner Foil	Silver Plated Copper Tape				
Dielectic	Solid PTFE				
Center Conductor		Solid SPCW			
ELECTRICAL CHARACTERISTICS					
Impedance	50±2				
Capacitance (Nominal)					
(pF/ft)		29.4			
(pF/m) Velocity of Propagation (%)	96.4 70				
Cutt Off Frequency (GHz)	63				
Shielding Effectiveness	63 > -110dB				
Max. Attenuation	>-110dB Attenuation Power				
Max Power (Watts)	dB/100Ft	: dB/100M	Fower		
400MHz	14	45.9	240		
1GHz	23	75.4	160		
3GHz 5GHz	39 52	128 170.6	80 57		
10GHz	80	262.4	44		
18GHz	110	361	33		
25GHz 30GHz	131 146	430	29		
35GHz	160	479 525	26 23		
40GHz	173	567	22		
45GHz 50GHz	183 195	600	20		
JUGHZ	195	640	18		

Product Notes