

P1CA-STMSTM-ST085-24

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 24 inches long, Operating to 18 GHz.

Product Features

P1CA-STMSTM-ST085-24 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 24 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.



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		

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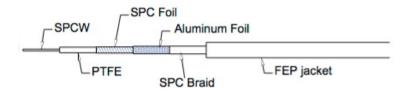


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Parameter	Description	Notes	
Jacket	FEP		
Coax Diameter	0.104		
Minimum Bend Radius	0.2		
Length	24.0		
Operating Temprature	-55.0 to 125.0 °C		
RoHS Compliance	Yes		

Drawing



Graph



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DIMENSIONS				
Center Conductor Diameter				
(inch)	0.0201			
		0.51		
(mm) Dielectric Diameter	0.51			
		0.0014		
(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				
(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 Capacitance (Nominal)	50±2			
(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	dB/100M	Power	
400MHz	14	45.9	240	
1GHz 3GHz	23 39	75.4	160 80	
3GHZ 5GHz	52	128	57	
10GHz	80	262.4	44	
18GHz 25GHz	110 131	361	33	
30GHz	146	430 479	29 26	
35GHz	160	525	23	
40GHz 45GHz	173 183	567	22	
45GHZ 50GHz	195	600 640	20 18	
		010	10	

Product Notes

Temp range: -55 to +125 deg C

Minimum bend radius: 0.2 inch (5.1 mm)