

Product Features

P1CA-29M29M-ST085-48 is a 50 Ohm 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. It is a 48 inch 2.92mm Male to 2.92mm Male cable assembly that utilizes ST085 triple shielded coax, which is 0.104 inches in diameter. The Tight-Flex™ cable assembly operates to 40 GHz with a maximum 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.



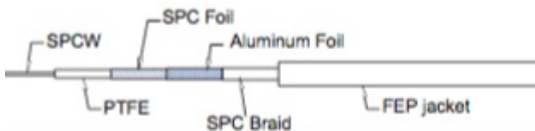
Electrical Specification: T_{Ambient} = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		40.0	

Mechanical And Environmental Specifications:

Parameter	Description	Notes
Connector 1	2.92mm Male	
Connector 2	2.92mm Male	
Coax Cable	Tight-Flex, Triple Shielded	
Cable Type	ST085	
Coax Diameter	0.104	
Length	48.0	
RoHS Compliance	Yes	

Drawing



Graph



DIMENSIONS				
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	(inch)		0.0885	
	(mm)		2.25	
Jacket Diameter	(inch)		0.104	
	(mm)		2.64	
MATERIAL SPECIFICATIONS				
Jacket		FEP(BLUE)		
Braid		Round Silver Plated Copper		
Outer Foil		Aluminium Tape		
Inner Foil		Silver Plated Copper Tape		
Dielectric		Solid PTFE		
Center Conductor		Solid SPCW		
ELECTRICAL CHARACTERISTICS				
Impedance		50±2		
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
		dB/100Ft	dB/100M	
400MHz	14	45.9	240	
1GHz	23	75.4	160	
3GHz	39	128	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

