

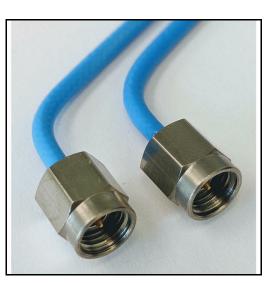
P1CA-29M29M-ST085-12

2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, operating to 40 GHz, 12 inch long.

Product Features

P1CA-29M29M-ST085-12 is an RF cable assembly 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 12 inch 2.92mm Male to 2.92mm Male cable assembly that utilizes ST085 Tight-Flex, triple shield coax, which is 0.104 inch (2.6 mm) diameter. The Tight-Flex[™] cable assembly operates to 40 GHz with a max VSWR of 1.35:1. Max Insertion Loss at 40 GHz for this 12 inch assembly is 1.75 dB. RF shielding > 110 dB. Velocity of Propagation is 70 %.

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 is triple shield construction for great RF shielding and RF stability during tight bends.



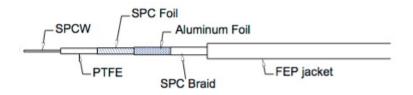
Electrical Specification: T Ambient = 25° C

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	
oax Cable Tight-Flex, Triple Shielded		
Cable Type ST085		
Coax Diameter	Coax Diameter 0.104	
ength 12.0		
oHS Compliance Yes		

Drawing





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DIMENSIONS				
Center Conductor Diameter				
(inch)		0.0201		
(mm)	0.51			
Dielectric Diameter				
(inch)		0.0641		
	1.63			
(mm)		1.03		
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		6.6.V		
(inch)	0.104			
(mm)		2.64		
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	S	olid 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 dB/100Ft	dB/100M	Power	
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	131	430	29	
30GHz	146	479	26	
35GHz 40GHz	160 173	525	23 22	
45GHz	183	567 600	22	
50GHz	195	640	18	

Product Notes

Temp range: -55 to +125 deg C

Minimum bend radius: 0.2 inch (5.1 mm)

P1dB, Inc.

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