

2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 8 inch

Product Features

P1CA-29M29M-ST085-8 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 an 8 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 8 inch assembly is 1.2 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.



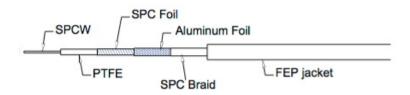
Electrical Specification: T Ambient = 25° C

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	
Coax Cable	Tight-Flex, Triple Shielded	
Cable Type	ST085	
Coax Diameter	0.104	
Length	8.0	
RoHS Compliance	Yes	

Drawing



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DIMENSIONS						
Center Conductor Diameter						
(inch)	0.0201					
(mm)	0.51					
Dielectric Diameter						
(inch)		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)						
Jacket Diameter						
(inch)	0.104					
(mm)	2.64					
MATERIAL SPECIFICATIONS						
		FEP(BLUE)				
Jacket						
Braid	Round Silver Plated Copper					
Outer Foil Inner Foil	Aliminium Tape					
Dielectic	Silver Plated Copper Tape Solid PTFE					
Center Conductor	Solid SPCW					
ELECTRICAL CHARACTERISTICS		3010 01 011				
ELECTRICAL CHARACTERISTICS		50±2				
Impedance	50±2					
Capacitance (Nominal)		1111111				
(pF/ft)	29.4					
(pF/m)	96.4					
Velocity of Propagation (%)	70					
Cutt Off Frequency (GHz)		63				
Shielding Effectiveness	> -110dB					
Max. Attenuation	Attenuation		Power			
Max Power (Watts)	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)