

2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 4 inch

Product Features

P1CA-29M29M-ST085-4 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. It is a 4 inch 2.92mm Male to 2.92mm 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 40 GHz with a max VSWR of 1.35:1.

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.



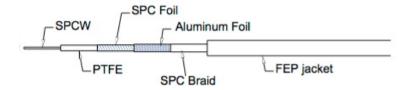
Electrical Specification: T Ambient = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		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	4.0		
RoHS Compliance	Yes		

Drawing



Graph

P1dB, Inc.

188 Martinvale Lane, San Jose, CA 95119

+1(408)613-4857



P1CA-29M29M-ST085-4

2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 4 inch

DIMENSIONS					
Center Conductor Diameter					
(inch)	0.0201				
(mm)	0.51				
Dielectric Diameter					
(inch)		0.0641			
(mm)	1.63				
Diameter Over Inner Foil		1.00			
(inch)	0.0708				
(mm)	1.80				
Diameter Over Outer Foil					
(inch)	0.0748				
(mm)					
Diameter over Braid		1.90			
(inch)	0.0885				
(mm)	2.25				
Jacket Diameter		2.20			
(inch)	0.104				
(mm)					
MATERIAL SPECIFICATIONS		2.64			
		FERMINE			
Jacket	FEP(BLUE)				
Braid	Roun	nd Silver Plated Copper			
Outer Foil	Aliminium Tape				
Inner Foil Dielectic	Silver Plated Copper Tape				
Center Conductor	Solid PTFE Solid SPCW				
ELECTRICAL CHARACTERISTICS		00110 01 011			
		50±2			
Impedance		0015			
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)	Attenuatio dB/100Ft	: dB/100M	Power		
		-	A		
400MHz 1GHz	14 23	45.9 75.4	240 160		
3GHz	39	128	80		
5GHz	52	170.6	57		
10GHz 18GHz	80 110	262.4 361	44 33		
	131	430	29		
25GHz			26		
25GHz 30GHz	146	6/14			
30GHz 35GHz	146 160	479 525			
30GHz 35GHz 40GHz	160 173	525 567	23 22		
30GHz 35GHz	160	525	23		

Product Notes