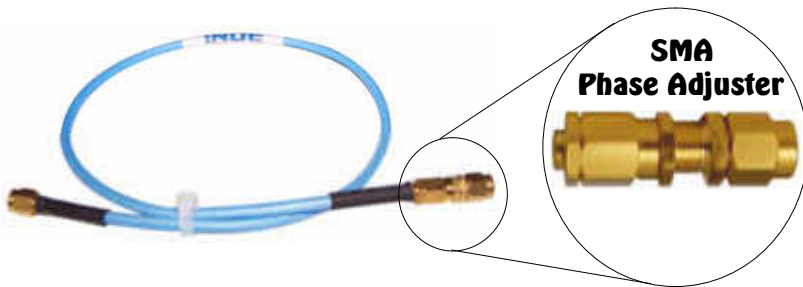


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**Practical solution for precise phase matching
Replace semi-rigid phase matched cables**

Hi-performance SMA (Male) Connector with integrated precision phase trimmer. Stainless steel, gold plated tested as per MIL-STD-202 satisfies requirement as mentioned in MIL-C-39012. After adjusting the required phase value, lock the nut and seal it with heat shrink tubing.

Data for SMA Trimmer is discussed here. Also available are:

- 7/16 Phase Trimmer
- N Phase Trimmer

Pls contact us for the same

Applications:

- Multi-Channel Amplifiers
- Multi-Beam Antenna Arrays
- RF Combiners and Filters
- Phased Array Radars

Total movement in phase trimmer $L = 3 \text{ mm}$
Maximum Phase Adjustment = $1.2 \times f \times L$
($f = \text{GHz}$, $L = \text{movement in mm}$)

Phase adjustments possible Specifications:

- 3 GHz (S-Band) : 10.80°
- 6 GHz (C-Band) : 21.60°
- 9 GHz (X-Band) : 32.40°
- 13 GHz (Ku-Band) : 46.80°

Advantages:

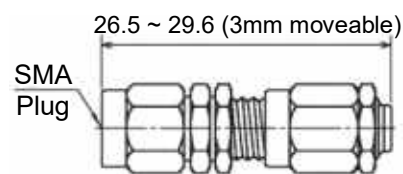
- Quick turnaround of Cable Assemblies as compared to semi-rigid types
- Faster delivery from us, we normally keep in stock Imported Semi Flexible Cable & also Phase Trimmer integrated SMA (Male) Connectors.
- Other end connector available as per customer's choice

Specifications of Phase Trimmer

- Impedance : 50 ohm
- Frequency : DC-18 GHz
- Weight : max. 10 g
- Outer conductor : stainless steel with gold-plating
- Center contact : BeCu, gold plated
- Dielectric : Teflon
- Gasket : Silicon rubber
- Vibration, Shock, Corrosion resistance, temperature cycle are tested in accordance with MIL-STD-202 and are satisfied with requirements mentioned in MIL-C-39012

Imported Semi Flexible Cable has following features and benefits:

- Stable Loss, Phase & VSWR versus bending
- Low Passive Intermodulation Distortion
- Excellent Shielding Effectiveness
- Enables simple "plug-in" cable bent runs without the need for complex 3D bend configurations required for semirigid cables.
- Its Teflon FEP Jacket provides excellent protection in corrosive environments.

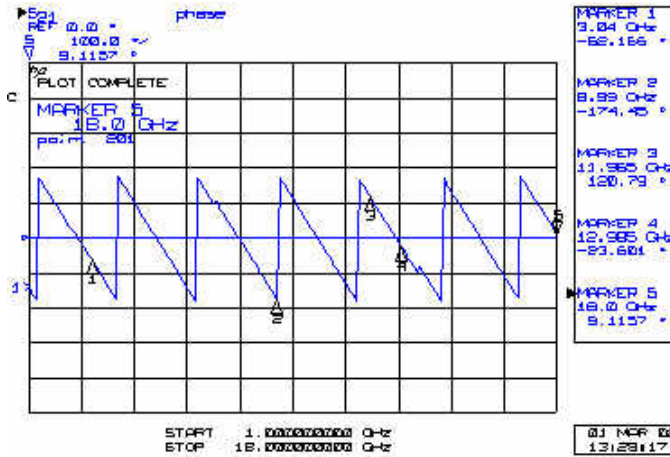


SMA(M) Phase Trimmer

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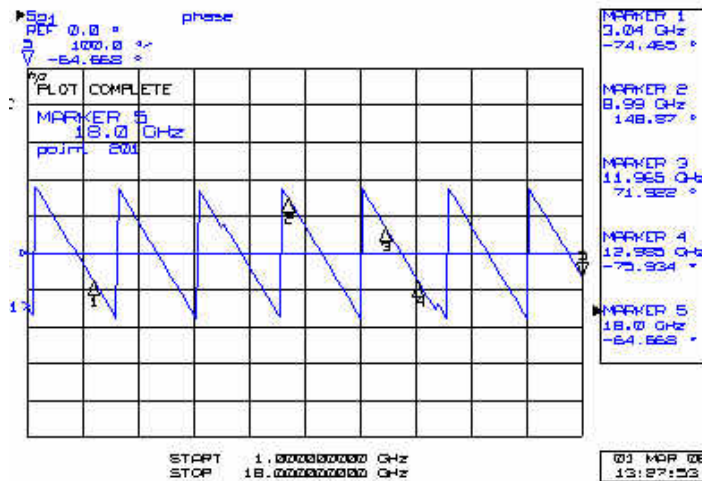
Cable Assembly Phase Data with Trimmer Fully CLOSED (1 meter SMA(M) – SMA(M) Trimmer)



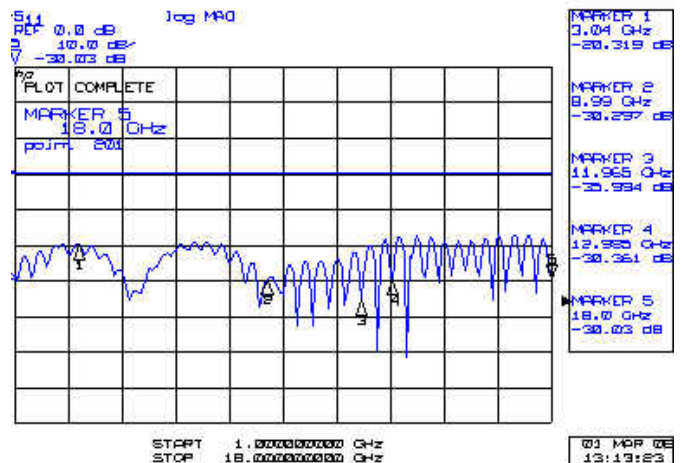
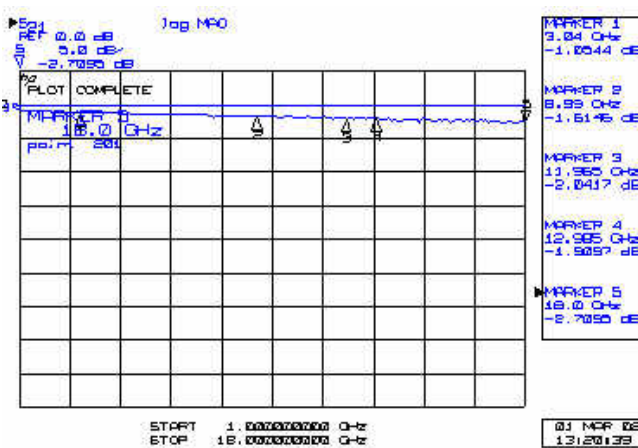
Actual Phase Adjustment

- Phase Adjust. @3 GHz = 11 °
- Phase Adjust. @9 GHz = 38 °
- Phase Adjust. @12 GHz = 49 °
- Phase Adjust. @18 GHz = 60 °

Cable Assembly Phase Data with Trimmer Fully OPEN (1 meter SMA (M) – SMA(M) Trimmer)



Return Loss and Insertion Loss Data (1 meter SMA (M) – SMA(M) Trimmer)



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Physical & Mechanical Specifications of Flexible Coaxial Cable

- Inner Conductor: Solid Silver Covered Copper
- Dielectric: Solid PTFE
- Inner Shield: Silver Plated Copper Flat Ribbon Tape
- Outer Shield: Silver-Plated Copper Braid
- Jacket: Te on FEP, < 4.2 mm
- Bend Radius: 10 mm
- Temp. Range: -55° ~ 125°C

Attenuation (dB per Feet, +25°C)

Frequency (MHz)	Attenuation (dB)
1000	0.12
2000	0.17
3000	0.22
10000	0.45
13500	0.55
18000	0.66

Electrical Specifications of Flexible Coaxial Cable

- Meets MIL-C-17 specifications
- Frequency: DC - 18 GHz (with SMA connector)
- Velocity of Propagation: 70 %
- Shielding Effectiveness: > 100 dB
- Power Handling: Min 45 Watts Average @18 GHz
- Stable loss, phase and VSWR versus frequency
- Corrosion Resistance: FEP jacket provides excellent corrosion protection in corrosive environment.
- Flexible nature of this cable eliminates the need for hand or precision machine bending.

Maximum CW Power Handling (Watts, +40°C, Sea Level)

Frequency (MHz)	Power Handling (watts)
1000	280
2000	190
3000	150
10000	70
13500	55
18000	45

Ordering Code Description

MF02 - LL - (1 / 2) - (1 / 2) - U

LL	Length	0.5 = 0.5 ; 1 = 1.0
1	Connector Designator	N = N ; SMA = SMA
2	Male / Female Designator	Male = M ; Female = F
3	Orientation of Connector	ST = Straight; RA = Right Angle; PTR = Phase Trimmer
U	Unit of Length	I = Inch; M= Meter; F = Feet

Phase Trimmable Cable Sets

Cable Assembly P/N	Connectors		Length	Insertion Loss (dB) Typical				
	End 1	End 2		2 GHz	6 GHz	12 GHz	18 GHz	
SMA (Male) Straight Connector on one end & SMA (Male) Straight Phase Trimmer on other end								
MF02-4-SMA(M/ST)-SMA(M/PTR)-I	SMA(M/ST)	SMA(M/PTR)	4 inch	<0.14	<0.26	<0.41	<0.53	
MF02-6-SMA(M/ST)-SMA(M/PTR)-I	SMA(M/ST)	SMA(M/PTR)	6 inch	<0.18	<0.33	<0.50	<0.65	
MF02-12-SMA(M/ST)-SMA(M/PTR)-I	SMA(M/ST)	SMA(M/PTR)	12 inch	<0.27	<0.51	<0.79	<1.02	
MF02-0.1-SMA(M/ST)-SMA(M/PTR)-M	SMA(M/ST)	SMA(M/PTR)	0.1 m	<0.14	<0.26	<0.41	<0.53	
MF02-0.3-SMA(M/ST)-SMA(M/PTR)-M	SMA(M/ST)	SMA(M/PTR)	0.3 m	<0.26	<0.50	<0.78	<1.01	
MF02-0.5-SMA(M/ST)-SMA(M/PTR)-M	SMA(M/ST)	SMA(M/PTR)	0.5 m	<0.40	<0.75	<1.14	<1.46	
SMA (Male) Right Angle Connector on one end & SMA (Male) Straight Phase Trimmer on other end								
MF02-4-SMA(M/RA)-SMA(M/PTR)-I	SMA(M/RA)	SMA(M/PTR)	4 inch	<0.15	<0.27	<0.42	-	
MF02-6-SMA(M/RA)-SMA(M/PTR)-I	SMA(M/RA)	SMA(M/PTR)	6 inch	<0.19	<0.34	<0.51	-	
MF02-12-SMA(M/RA)-SMA(M/PTR)-I	SMA(M/RA)	SMA(M/PTR)	12 inch	<0.28	<0.52	<0.80	-	
MF02-0.1-SMA(M/RA)-SMA(M/PTR)-M	SMA(M/RA)	SMA(M/PTR)	0.1 m	<0.15	<0.27	<0.42	-	
MF02-0.3-SMA(M/RA)-SMA(M/PTR)-M	SMA(M/RA)	SMA(M/PTR)	0.3 m	<0.27	<0.51	<0.79	-	
MF02-0.5-SMA(M/RA)-SMA(M/PTR)-M	SMA(M/RA)	SMA(M/PTR)	0.5 m	<0.41	<0.76	<1.15	-	

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