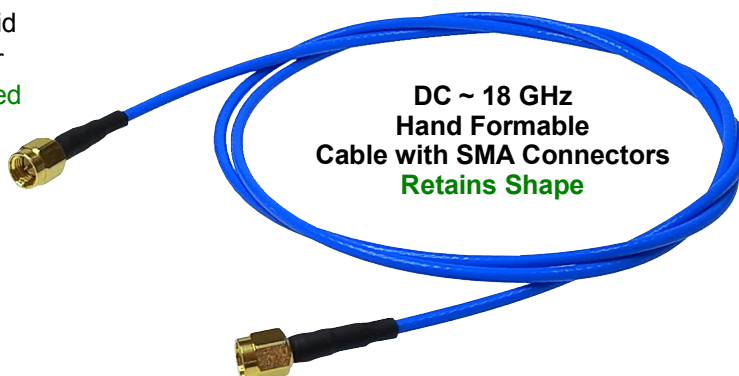


- HANDFORMABLE version of RG405 semirigid
- Equivalent to Sucoform\_086 of Huber Suhner
- **EASILY hand routable, no special tools needed**

SF05 series are HANDFORMABLE cable set suitable for operation from DC-18 GHz. These are electrically and mechanically similar to RG405 (0.085") semirigid.



## Materials & Turnaround Time

- MIL-C-17 conformant hand formable cable in stock
- Imported SMA(M), N(M) straight connectors in stock

## MIL Standards Conformance

- MIL-C-17 for cable
- MIL-PRF-39012 for connectors

## APPLICATIONS

- Military interconnect applications where MIL spec pedigree is required
- Defense systems use where a cable assembly with stable electrical properties is needed
- Where easily routable substitute for RG405 is needed

## Advantages of Handformable Cable

- Electrically & mechanically similar to RG405 (0.085") semirigid cable.
- Hand Formable: Easily bendable with hand and retain. This is an advantage over semirigid cable which are a nightmare to bend. No special bending tools are needed

## Phase Matching

We can provide phase matched set of cables for applications where electrical length is critical for system performance, for example in phased arrays. Please specify:

± A degrees @ B GHz **OR** ± X pS (XX is the delay in pS)  
(where A is degree of phase matching and B is the frequency)

## Physical & Mechanical Specifications

Parameters	SF05
Center Conductor	0.53mm
Dielectric	1.65mm
Outer Conductor	2.16mm
Jacket	(FEP) 2.50mm
Bend Radius (min)	6mm
Weight	0.022kg/m
Temperature Range	-40°C to +165°C

## Electrical Specifications

Parameter	SF05
Impedance	50 Ohm
Frequency	DC - 18 GHz
Velocity of Propagation	70 %
Capacitance	95pF/m
Shielding Effectiveness	> -110 dB
Operating Voltage	1500 Vrms max.

## Attenuation and Power handling Vs Frequency

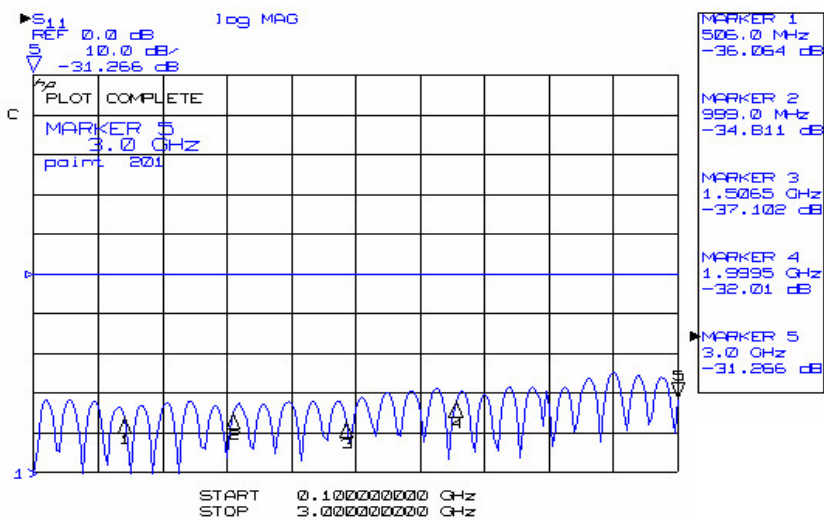
Frequency (GHz)	0.4	1	5	10	18
Attenuation (db/meter)	0.45	0.72	1.64	2.62	3.45
Average Power (W)	240	150	70	47	35

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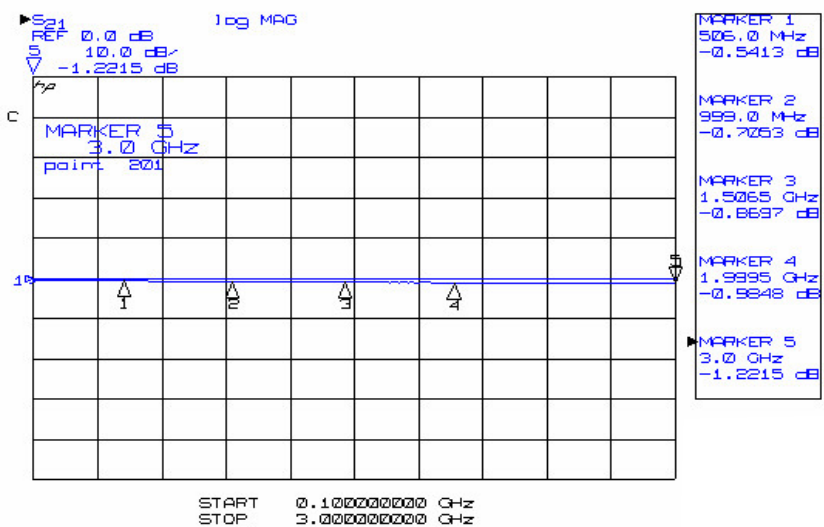
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Get quick supply of samples ▪ Order small quantity ▪ Get quick delivery

Return Loss of 1 meter (SMA(M) to SMA(M) SF05 Cable Set



Insertion Loss of 1 meter (SMA(M) to SMA(M) SF05 Cable Set



Ordering Codes Description

SF05 - (Length) (Connector 1) (Connector 2)

- □ □ - (□ / □) □ - (□ / □) □ - □

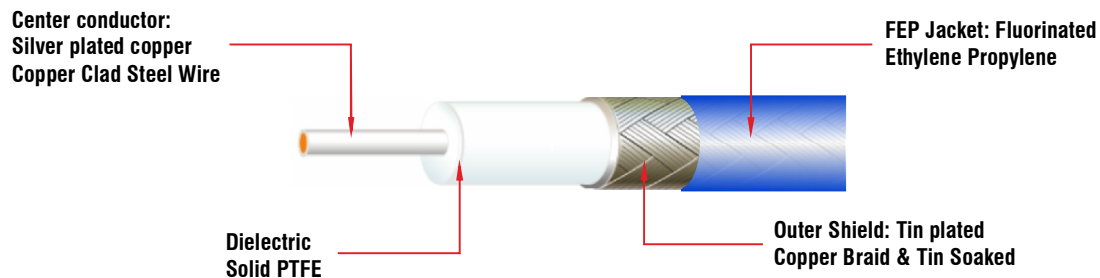
L L 1 2 3 1 2 3 U

L L	Length	0.5 = 0.5 ; 1 = 1.0 ; 2 = 2.0
1	Connector Series	SMA = SMA ; N = N ; BNC = BNC; TNC = TNC
2	Male/Female Designator	M = Male ; F = Female
3	Orientation of Connector	ST = Straight ; RA = Right Angle
U	Unit of Length	M = Meter ; F = Feet ; I = Inch

1 meter cable set with SMA (Male) on both sides = SF05-1.0-SMA(M/ST)-SMA(M/ST)-M

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## SF05-Series Cable Construction



## Connectors Specifications

Specifications	SMA Connectors
Outer Conductor	Brass, Gold plated
Center Conductor	Brass, Gold Plated
Insulation	PTFE
Gasket	Silicon Rubber
Frequency range	DC~18 GHz
Nominal Impedance	50 $\Omega$
Mating/Unmating	500 operations
Vibration	As per MIL-STD-202, method 204, test condition D
Mechanical Shock	As per MIL-STD-202, method 213, test condition I
Thermal Shock	As per MIL-STD-202, method 107, test condition B
Humidity	As per MIL-STD-202, method 106
Temperature Cycle	As per MIL-STD-202, method 102A, test condition C

## Cable Set Ordering Codes

Ordering Code	Length	Connector 1	Connector 2	Frequency Range
<b>SMA (Male) Straight - SMA (Male) Straight</b>				
SF05-0.5-SMA(M/ST)-SMA(M/ST)-M	0.5m	SMA (M) St	SMA (M) St	DC ~ 18GHz
SF05-1.0-SMA(M/ST)-SMA(M/ST)-M	1m	SMA (M) St	SMA (M) St	DC ~ 18GHz
SF05-2.0-SMA(M/ST)-SMA(M/ST)-M	2m	SMA (M) St	SMA (M) St	DC ~ 18GHz
SF05-3.0-SMA(M/ST)-SMA(M/ST)-M	3m	SMA (M) St	SMA (M) St	DC ~ 18GHz
SF05-5.0-SMA(M/ST)-SMA(M/ST)-M	5m	SMA (M) St	SMA (M) St	DC ~ 18GHz
SF05-1.0-SMA(M/ST)-SMA(M/ST)-F	1 feet	SMA (M) St	SMA (M) St	DC ~ 18GHz
SF05-2.0-SMA(M/ST)-SMA(M/ST)-F	2 feet	SMA (M) St	SMA (M) St	DC ~ 18GHz
<b>SMA (Male) Straight - SMA (Male) Right Angle</b>				
SF05-0.5-SMA(M/ST)-SMA(M/RA)-M	0.5m	SMA (M) St	SMA (M) RA	DC ~ 9GHz
SF05-1.0-SMA(M/ST)-SMA(M/RA)-M	1m	SMA (M) St	SMA (M) RA	DC ~ 9GHz
SF05-2.0-SMA(M/ST)-SMA(M/RA)-M	2m	SMA (M) St	SMA (M) RA	DC ~ 9GHz
SF05-3.0-SMA(M/ST)-SMA(M/RA)-M	3m	SMA (M) St	SMA (M) RA	DC ~ 9GHz
SF05-5.0-SMA(M/ST)-SMA(M/RA)-M	5m	SMA (M) St	SMA (M) RA	DC ~ 9GHz
SF05-2.0-SMA(M/ST)-SMA(M/RA)-F	2 feet	SMA (M) St	SMA (M) RA	DC ~ 9GHz

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