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- 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 an easily routable substitute for RG405 semirigid 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

Parameter	SF05
Inner Conductor	Silver Plated Copper (0.53mm/0.02 inch)
Dielectric	PTFE (1.68mm/0.066 inch)
Shield	Tin Plated Copper Braid, Diameter 2.20 mm (0.087 inch)
Temp. range	-40°C ~ +125°C
Weight	0.02 Kg/m
Bend Radius	6mm for single bend 20mm for multiple bends

## Electrical Specifications

Parameter	SF05
Impedance	50 Ohm
Frequency	DC - 18 GHz
Velocity of Propagation	70 %
Capacitance	28.9 pF/feet
Shielding Effectiveness	> 100 db
Operating Voltage	1500 Vrms max.

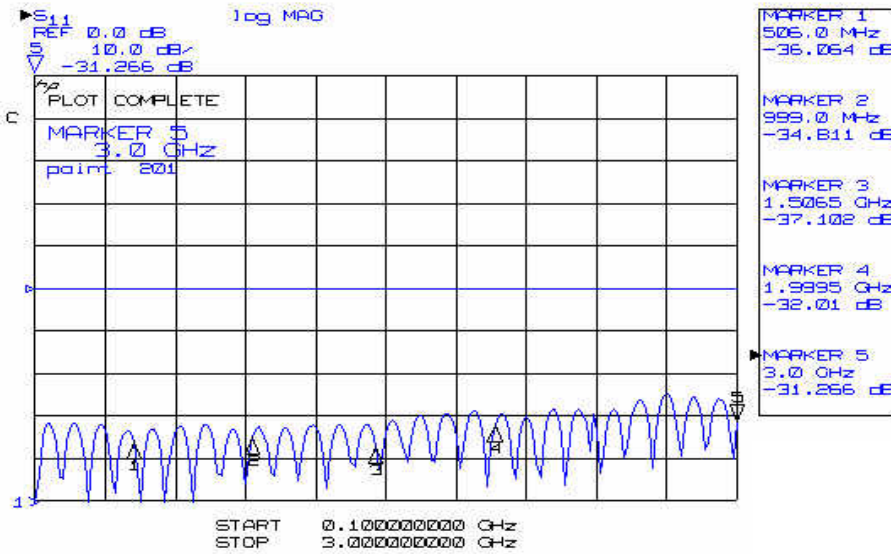
## Attenuation and Power handling Vs Frequency

Frequency (GHz)	0.4	1	5	10	18
Attenuation (db/meter)	0.45	0.69	1.72	2.42	3.40
Average Power (W)	240	150	70	47	35

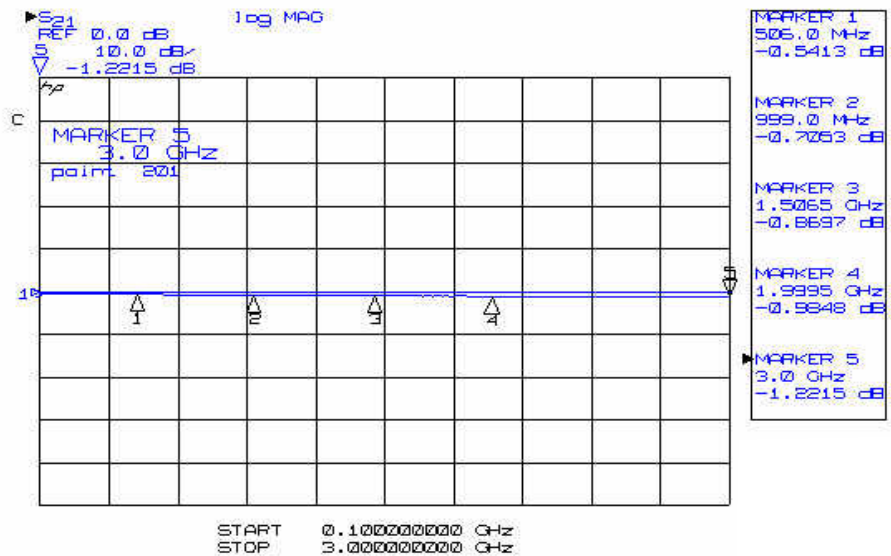
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**Return Loss of 1 meter (SMA(M) to SMA(M) SF05 Cable Set**



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



**Ordering Code Description:**

SF05 - (Length) - (Connector 1) - (Connector 2) - 00  
**L L 1 2 3 1 2 3 U**

<b>LL</b>	Length	0.5 = 0.5 , 1= 1.0 , 2= 2.0
<b>1</b>	Connector Series	SMA = SMA; N = N
<b>2</b>	Male/Female Designator	Male = M ; Female = F
<b>3</b>	Orientation of Connector	ST = Straight
<b>U</b>	Unit of length	M = Meter , F = Feet

2 meter cable set with SMA (Male) on both sides = SF05-2-SMA(M/ST)-SMA(M/ST)-M

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