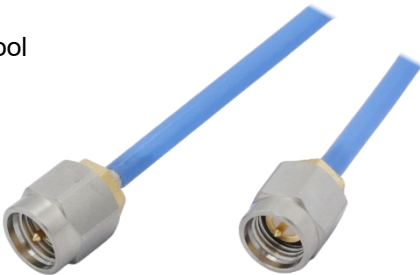


WithWave's Hand formable Cable Series(HF085) are complete line of high performance flexible microwave cable assemblies. The velocity propagation of *this* cable is 70 % and they have good insertion & return loss. These cable assemblies with SMA male connectors have excellent RF performance up to 18 GHz.

Features

- Freq. Range : DC to 18 GHz
- Hand formable to almost any custom shape without special bending tool
- Cable : HF085, Hand formable cable
- Connector type: SMA(Male)
- 8 mm bend radius for installations
- Anti-torque nut prevents cable stress during installation



Application

- Replacement for custom bent 0.086" semi-rigid cables
- Telecommunication Systems
- Test & Measurement
- Test bench systems

Specification

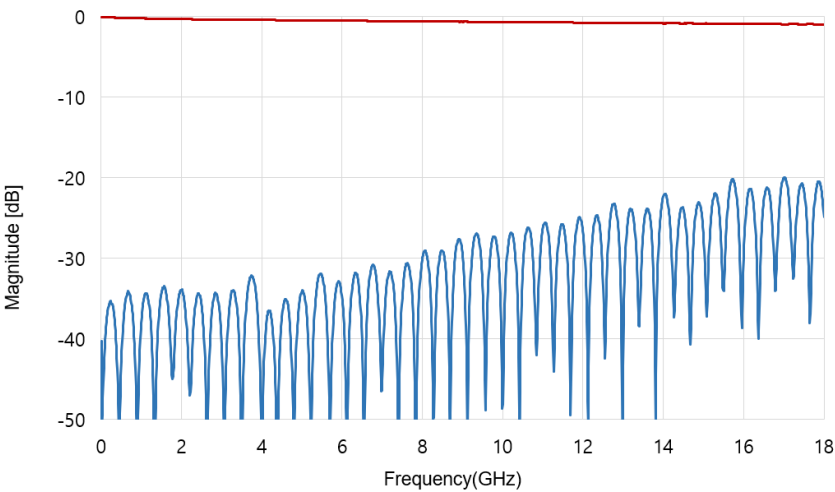
Scope	Specification	HF085
Electrical	Freq. Range (Max)	18
	Impedance	50 ± 2 Ohms
	VSWR *	1.30
	Velocity of propagation(%)	Typical 70
	Shielding Effectiveness (dB)	100
Physical	Center Conductor (mm)	0.53
	Insulator (mm)	1.68
	Outer Conductor (mm)	2.17
	Jacket (mm)	2.60
Mechanical & Environmental	Weight (g/M)	20
	Temperature	-40 ~+125°C

Test Results

HF085 cable assembly

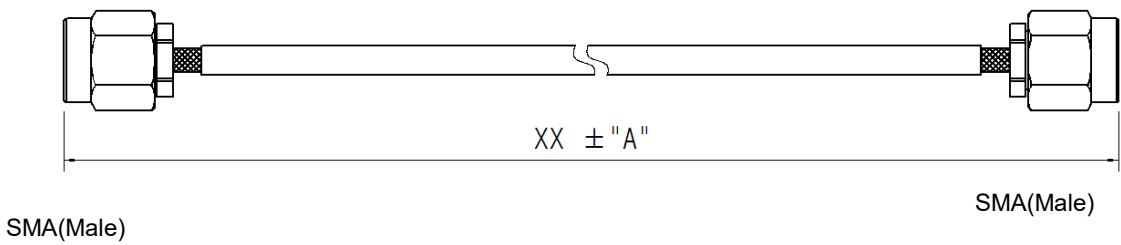
Part No. : HF085-SM1SM1-10inch

- Frequency : 10 MHz to 18 GHz
- Connector : SMA(Male)
- Cable Length : 10 inch



Drawing

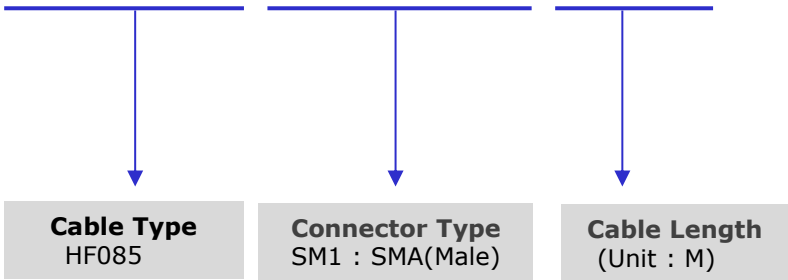
Unit : [mm]



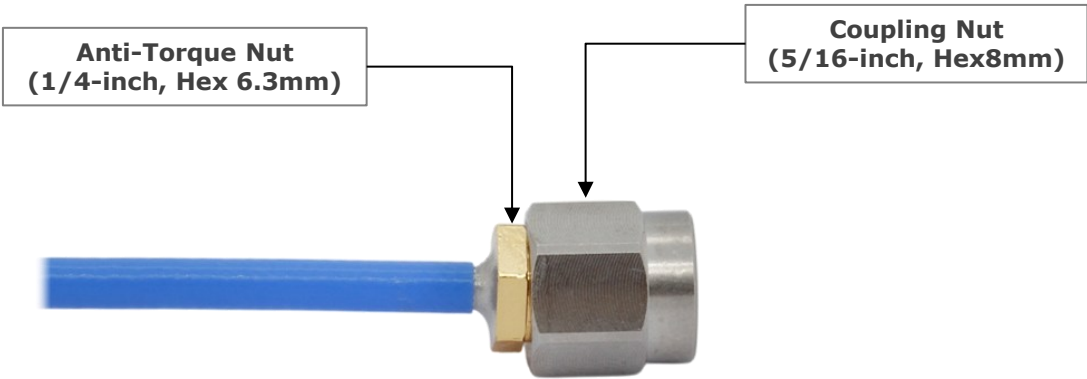
XX (Cable length)	"A" (Tolerance)
0.1M ~ 0.29M	+5.0mm / -0.0
0.3M ~ 0.99M	+15.0mm / -0.0
1.0M ~ 2.99M	+30.0mm / -0.0
3.0M ~ 9.99M	+50.0mm / -0.0
10.0M ~ 100.0M	+100.0mm / -0.0

■ Selection Guide

HF085-SM1SM1-0.1M



■ Proper cable connection using anti-torque nut



The cable connector includes a coupling nut which rotates to fasten the connector, and an anti-torque nut, which is fixed to prevent the cable from twisting during connection.

■ Revision History

Revision	Date	Changes
Ver 1.0	2025-11-03	Released Hand formable Cable Assemblies (HF085)