SPECIFICATION

Part No. : **CAB.058**

Product Name : Taoglas Semi-Rigid Cable Assembly
SMA(F) Jack Straight to
Strip/Tin 3/3mm
with 50mm 0.047” semi-rigid cable
Customizable

Photo :





1. Introduction

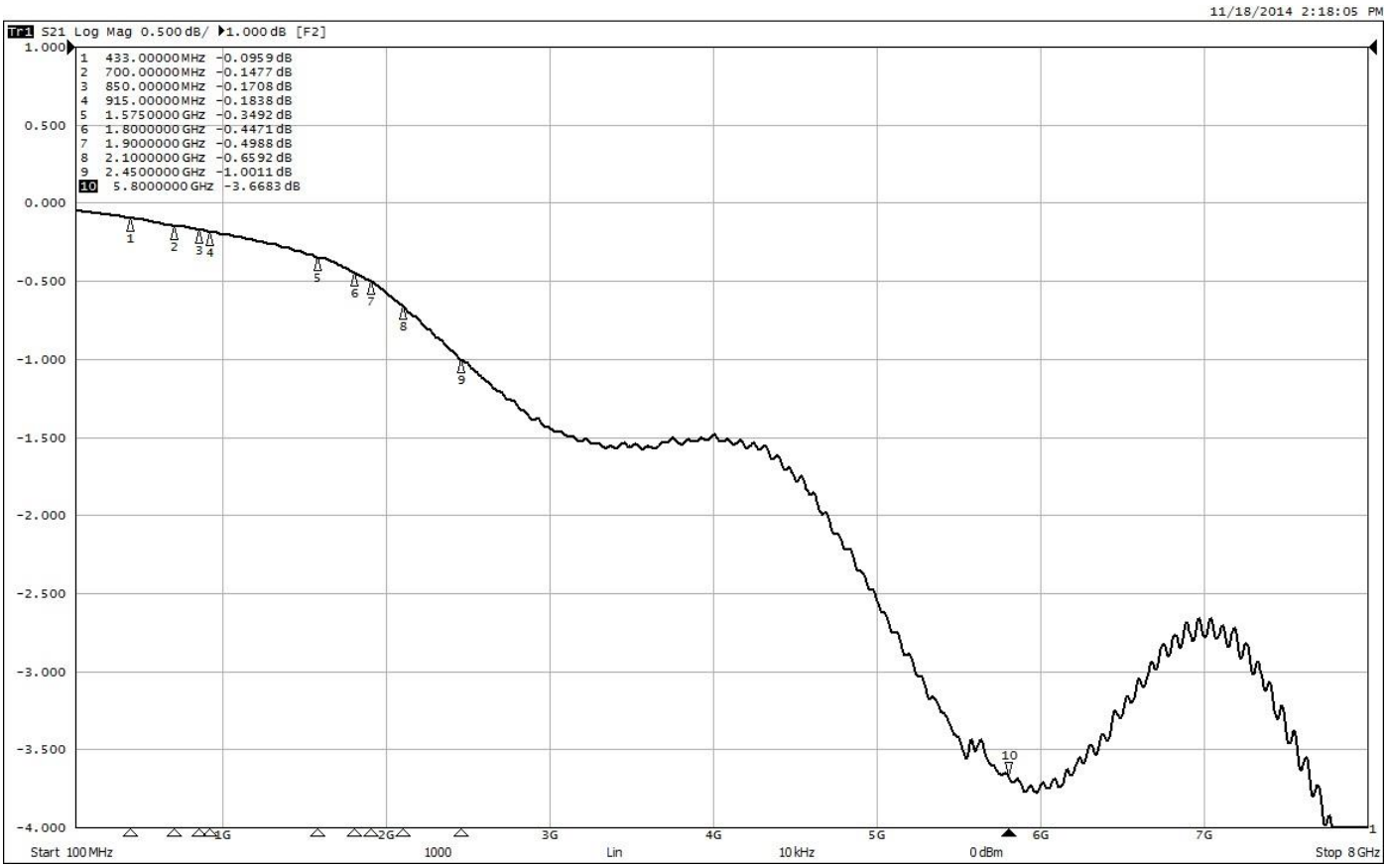
The Taoglas CAB.058 is a 0.047” semi-rigid coax pigtail with SMA connector that is ideal for RF circuit debug and design verification. The pigtail is 50mm long and comes stripped and tinned to expose a short length of the inner conductor, thus removing the need to make your own. The CAB.058 acts as a 50 ohm transmission line to connect your test equipment to your printed circuit board and has a SMA female connector making it the proper mate for most coax cables used in design labs, eliminating the need for additional adapters. Semi-rigid coax also has the best attenuation of all micro-coax types.

In order to make a proper connection to the PCB without causing an impedance mismatch, the cable jacket needs to be soldered to the PCB ground and the inner conductor gets soldered to the RF transmission line. The CAB.058 has a smooth, semi-rigid, metallic jacket that makes it very easy to solder the jacket to the PCB ground.

The thinner 0.047” cable diameter makes it easier to solder onto densely populated circuit boards. The semi-rigid nature of the cable also allows you to easily bend the pigtail to your convenience, yet holds its position to prevent toppling over and shorting nearby components.

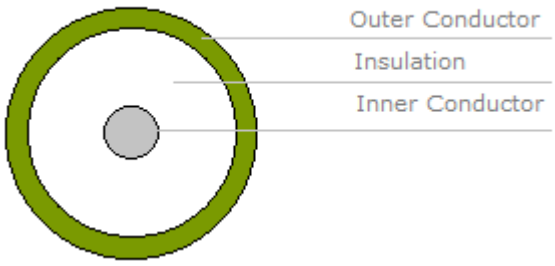
Taoglas provides customized length and connector variants subject to MOQ. Contact your regional Taoglas office for details.

2. Cable Insertion Loss



2. 0.047” Cable Specification

2.1 Drawing – Cross Section



2.2 Structure and Dimensions



Inner Conductor
Material
SPCW
Diameter
0.113+/-.0005 inches

Insulation
Material
PTFE, F1
Dielectric O.D
.037+/-.001 inches

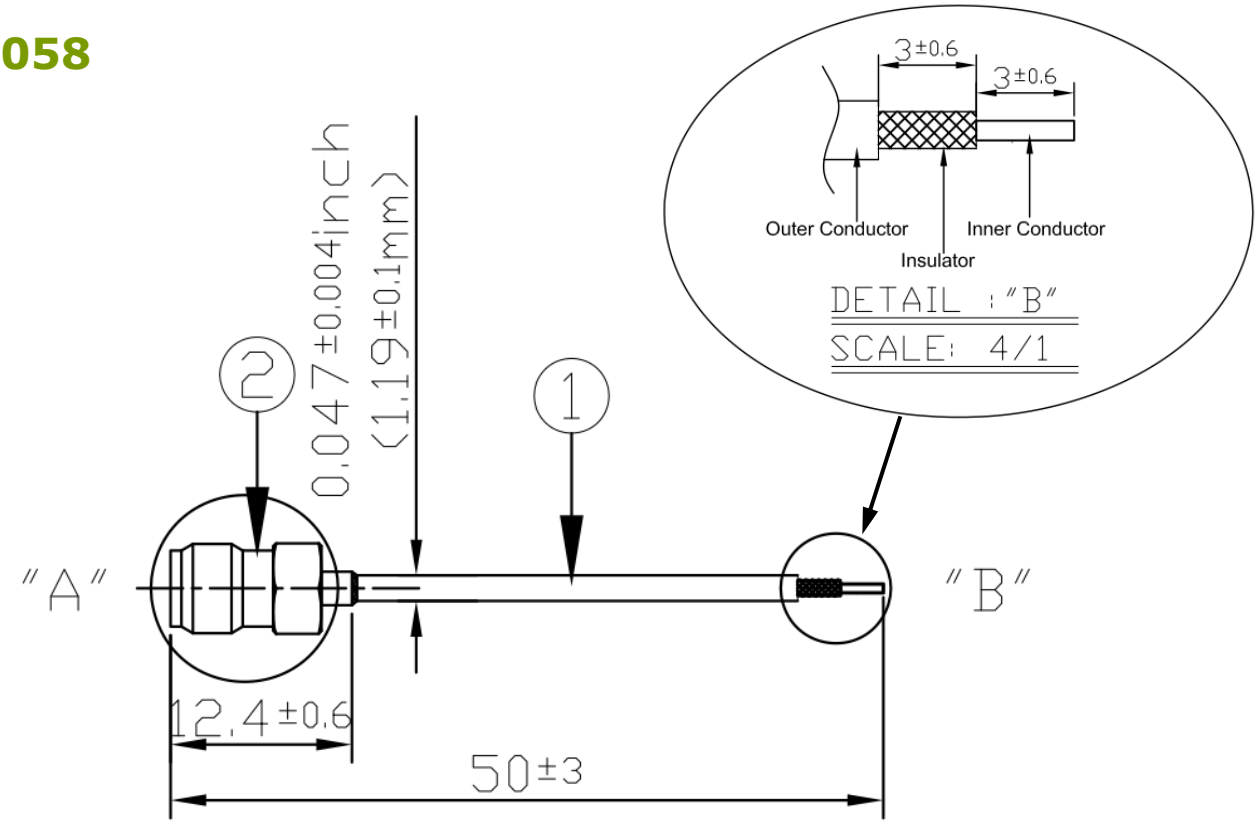
Outer Conductor
Material
Copper/Tin
Diameter
.047+/-.001 inches

2.3 Electrical & Physical Specification

1	Operating Temperature:	-50°C to +100°C	
2	Max Weight	4.8 (lbs/1000ft)	
3	Safe Bend Radius(proper tooling)	.050 inches	
4	Corona Extinction	Min. 1.0 KVRMS 60 Hz	
5	Max Operating Frequency	40GHz	
6	Dielectric Strength	2.0 KVRMS 60 Hz	
7	Impedance:	50 ± 1 Ω	
8	Standard Attenuation:	1GHz	40.0 dB/100ft 32W Avg. Power
		10GHz	130 dB/100ft 9W Avg. Power
		20GHz	190 dB/100ft 6.5W Avg. Power

3. Technical Drawing

3.1 CAB.058

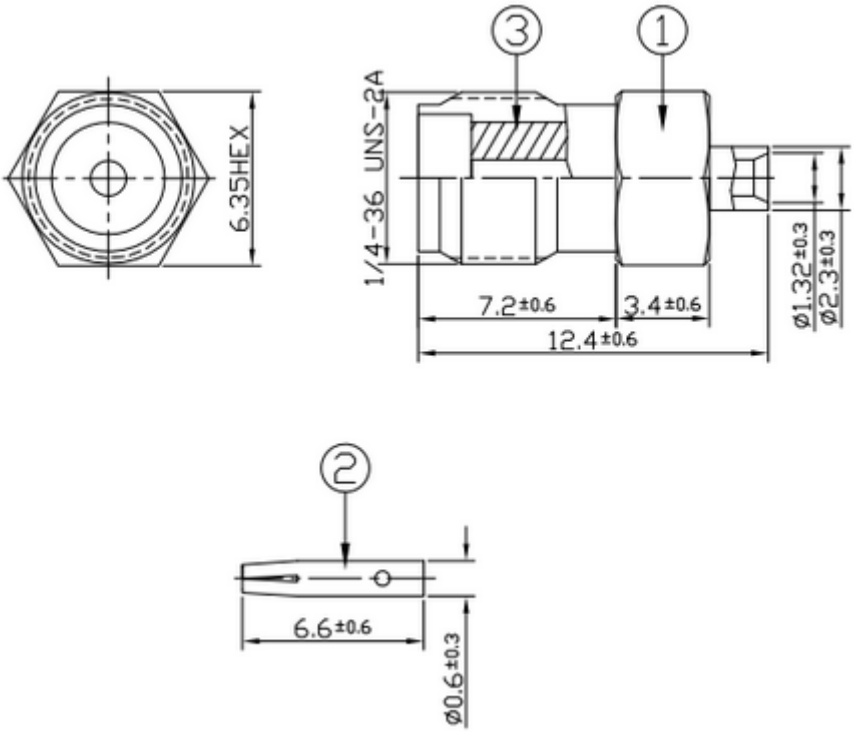


	Name	Material	Finish	QTY
1	0.047" Semi Rigid Cable	Copper	N/A	1
2	SMA(F) ST	Brass	Gold	1

Unit: mm

3.2 Connector

DETAIL : "A"



	Name	Material	Finish	QTY
1	Body	Brass	Gold	1
2	Pin	Brass	Gold	1
3	Insulation	Teflon	N/A	1

Unit: mm