TAOGLAS



Datasheet

CAB.0581

Description:

SMA (F) Jack to 50 mm 0.047" Semi Rigid Cable with Strip/Tin 3/3 mm

Features:

20GHz Frequency Supported

Cable: .047 Coaxial Cable

Overall Length: 50 mm

End A: SMA (F) Jack

End B: Strip and Tinned 3/3 mm

RoHS & Reach Compliant

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Ireland & USA ISO 9001:2015 Certified
Taiwan ISO 9001:2015 Certified
IATF16949

1. Introduction



The Taoglas **CAB.0581** is a 0.047" coaxial cable assembly featuring an SMA (F) jack with a 3/3 mm strip and tin termination. Designed to support frequencies up to **20 GHz**, it provides a compact RF interconnect solution for high-frequency RF applications, including test and measurement equipment and RF system integration.

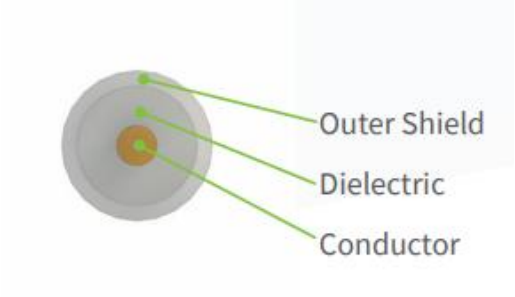
Typical Applications Include:

- RF Test and Measurement Equipment
- Laboratory and Development Equipment
- RF Modules and Subsystems
- High-Frequency RF Interconnects
- Communication Equipment

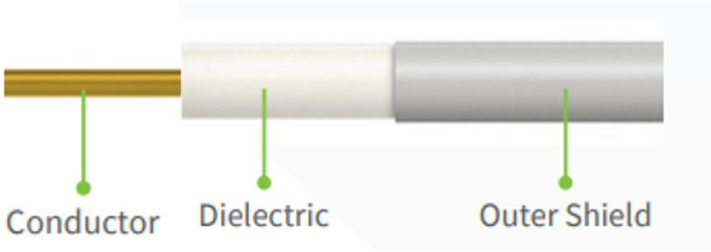
The CAB.0581 is part of Taoglas' standard cable assembly range. Customized cable lengths and connector configurations are also available subject to MOQ. Contact your regional Taoglas customer support team for further details.

2. Cable Specifications – .047 Coaxial Cable

2.1 Cross Section



2.2 Structure and Dimensions



Part Designation	Material	Diameter
Conductor	SPCW	0.29 ±0.1 mm
Dielectric	PTFE	0.94 ±0.05 mm
Outer Sheild	Tin Plated Copper Tube	1.19 ±0.1 mm

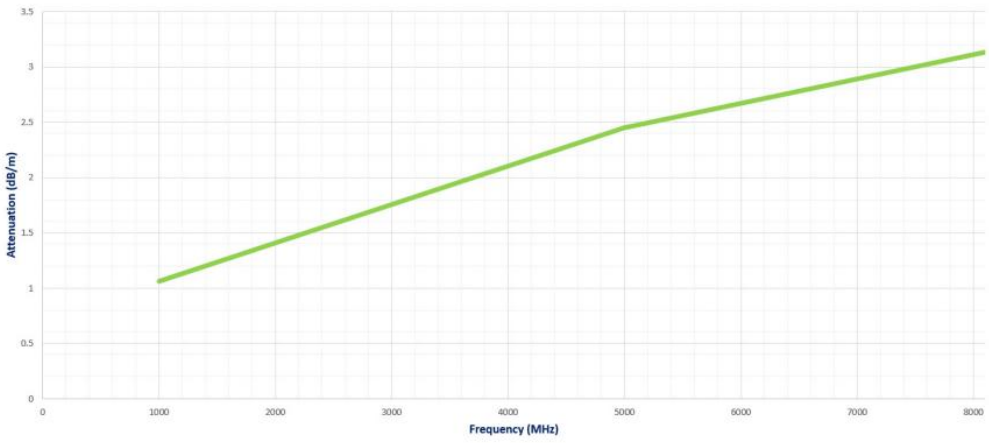
2.3 Cable Specifications

Mechanical	
Minimum Bend Radius	3 mm
Durability	500 Cycles
Center Conductor	0.29mm SPCW
Dielectric Diameter	0.94±0.05mm PTFE
Outer Shield	1.19±0.10mm Tin Plated Copper Tube
Weight	6g

Environmental	
Operating Temperature	-40°C to +100°C
Operating Frequency	DC - 20GHz

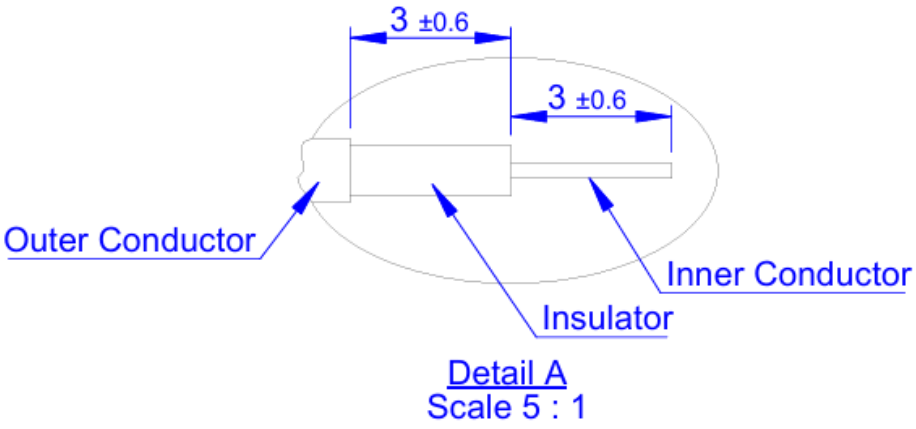
Electrical	
Impedance	50Ω
Capacitance	94 ± 3 pF/m
Shielding Effect	100 dB(Min.)

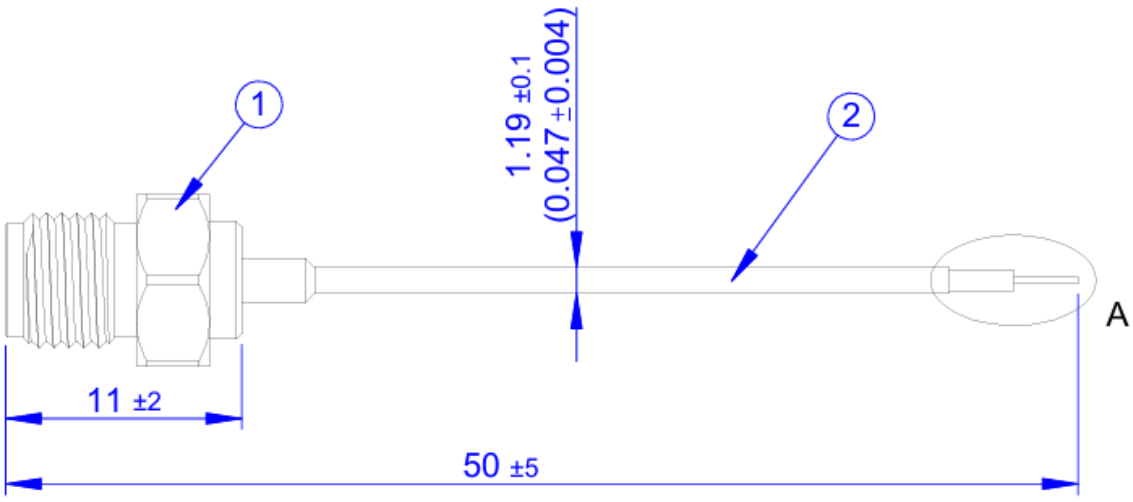
Attenuation vs. Frequency



Frequency (MHz)	1000	5000	10000	15000	20000
Attenuation (dB/m)	1.06	2.45	3.55	4.42	5.17

3. Mechanical Drawing (Units: mm)





	Name	Material	Finish	Qty
1	SMA(F)ST	Brass	Au Plated	1
2	Semi-rigid .047 Coaxial Cable	Tin Plated Copper Tube	Silver	1

4. Packaging



- ☑ 1 PCS / Plastic round tube
- ☑ Plastic round tube (mm): Ø 12.2x80
- ☑ Weight (Kg): 0.006 ±3%



- ☑ 25 PCS / PE bag
- ☑ PE bag (mm): 125x110 (Ref.)
- ☑ Weight (Kg): 0.14 ±3%

Changelog for the datasheet

SPE-26-8-216-A – CAB.0581

Revision: A (Original First Release)	
Date:	2026-09-28
Notes:	Initial release.
Author:	Conor McGrath

Previous Revisions

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