

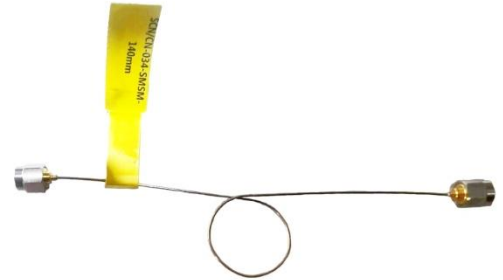
2.18mm CuNi-SS Cryogenic Cable Assemblies

G2CNSS /SMA Male / SMA Male/DC-18 GHz

Model: G2CNSS-SMAMSMAM-L

Features:

- Max Frequency 18 GHz
- VSWR max of 1.35



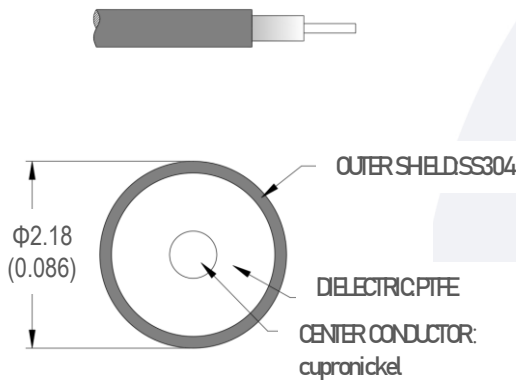
Applications:

- Dilution refrigerators/Cryogenic devices
- Quantum Computing
- Vacuum Chambers

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR		1.25	1.35	:1
Shielding Effectiveness		110		dB
Capacitance			98	pF/m
Impedance		50		ohm

Cable Cross Section:



Envrionmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	2.18	mm
Min. Bending Radius	10	mm
Thermal conductivity@4-20K	35 (for 10cm cable)	μw/k
Operating Temperature	4K to +100	°C
Storage Temperature	-55 to +200	°C

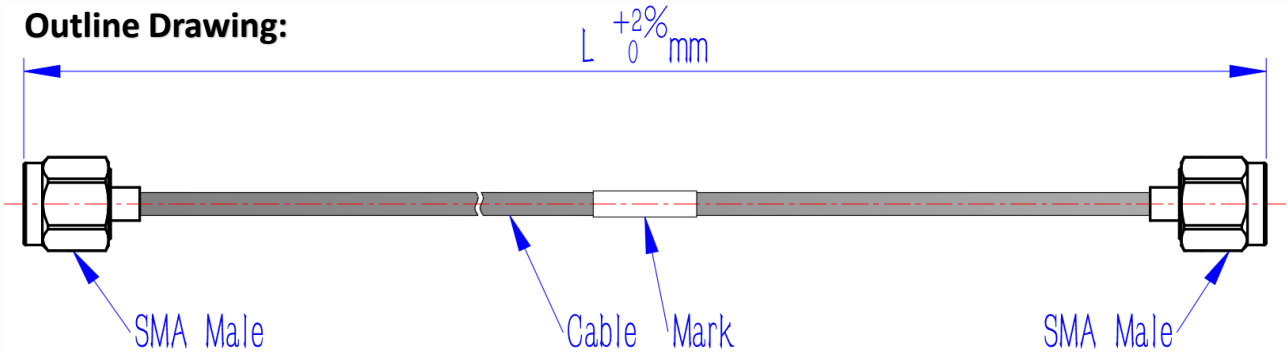
Cable Performance By Frequency

Frequency	0.5 GHz	1GHz	5 GHz	10 GHz	20 GHz
Insertion Loss (dB/m)@300K	2.03	2.89	6.52	9.3	13.2
Power(Watts CW)	180.6	130.3	55.2	37.6	25.3

Connectors:

Description	Connector 1	Connector 2
Type	SMA Straight Male	SMA Straight Male
Contact Material And Plating	Brass,Gold	Brass,Gold
Dielectric Type	PTFE	PTFE
Body Material And Plating	SS304	SS304
Insertion Loss (dB Max)	$0.05 \cdot \sqrt{f_{\text{GHz}}}$	$0.05 \cdot \sqrt{f_{\text{GHz}}}$

Outline Drawing:



Ordering Information:

Base Number	Length (Unit mm)	Custom Design Services
G034SCN-SMAMSMAM	-L	LEAVE BLANK(NOT REQUIRED) -CB(Precision CNC Bends)