

0.86mm Beryllium Copper cryogenic Cable Assemblies

G034BEC /SMA Male / SMA Male/DC-18 GHz

Model: G034BEC-SMAMSMAM-L



Features:

- Max Frequency 18 GHz
- VSWR max of 1.35

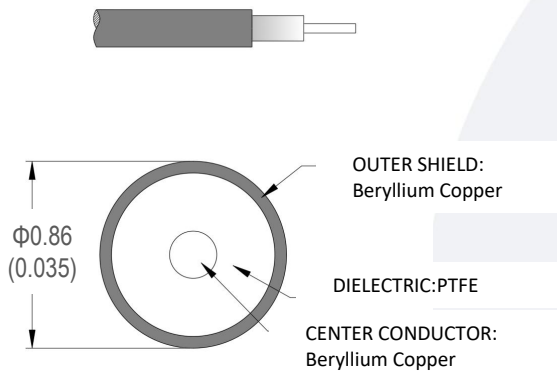
Applications:

- 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	0.86	mm
Min. Bending Radius	3.2	mm
Thermal conductivity@4-20K	28	μw/k
Operating Temerature	mK To 200	°C
Storage Temerature	-55 to +85	°C

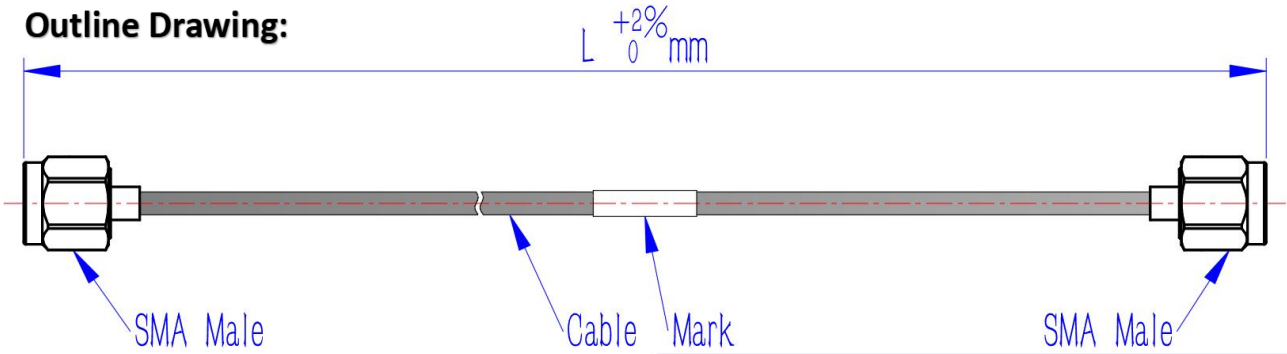
Cable Performance By Frequency

Frequency	1 GHz	3 GHz	6 GHz	10 GHz	18 GHz
Insertion Loss (dB/m)@300K	3.78	6.28	8.79	11.5	15.9

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	Oxygen-free copper	Oxygen-free copper
Insertion Loss (dB Max)	$0.05 \times \sqrt{f_{\text{GHz}}}$	$0.05 \times \sqrt{f_{\text{GHz}}}$

Outline Drawing:



Ordering Information:

Base Number	Length (Unit mm)	Custom Design Services
G034BEC-SMAMSMAM	-L	LEAVE BLANK(NOT REQUIRED) -CB(Precision CNC Bends)