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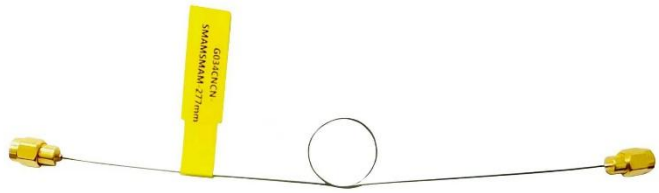
0.86mm SCuNi/CuNi cryogenic Cable Assemblies

G034CNCN /SMA Male / SMA Male/DC-18 GHz Model: G034CNCN-SMAMSMAM-L



Features:

- Max Frequency 18 GHz
- VSWR max of 1.35

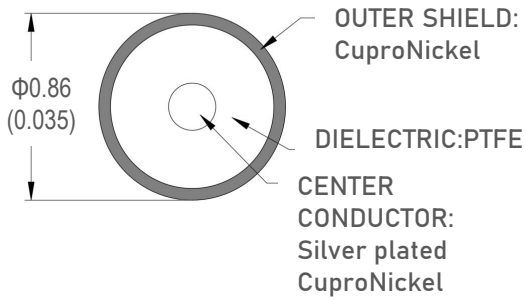
Applications:

- 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	90			dB
Capacitance			95.2	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*	31	μw/k
Operating Temerature	4K To +200	℃
Storage Temerature	-55 to +200	℃

* Note: Heat quantity required for one end of 10 cm long cable (excluding connectors) to reach 20 K when 4 K heat anchor is applied to the other end of the cable.

Cable Performance By Frequency

Frequency	0.5 GHz	1 GHz	5 GHz	10 GHz	20 GHz

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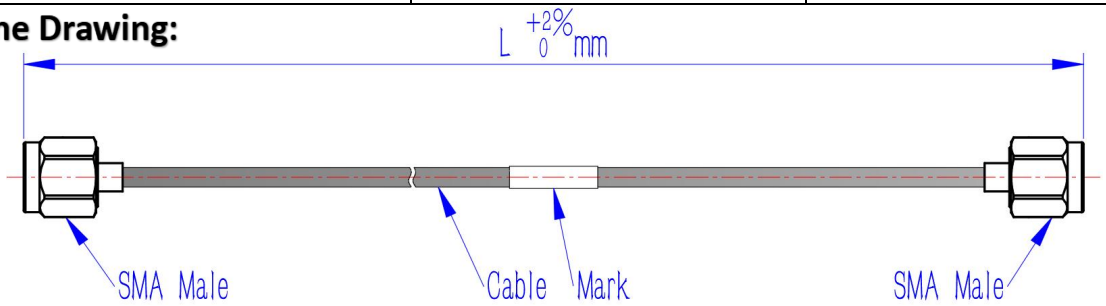
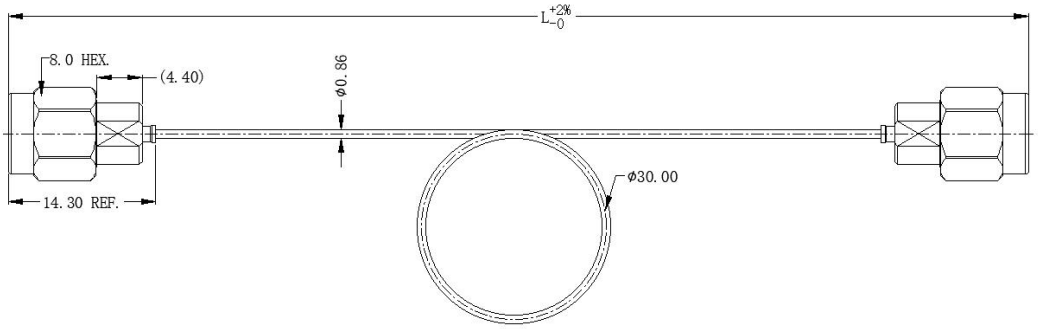
Connectors:

Description	Connector 1	Connector 2
Type	SMA Straight Male	SMA Straight Male
Contact Matericl And Plating	Beryllium bronze, Gold	Beryllium bronze, Gold
Dielectric Type	PTFE	PTFE
Body Matericl And Plating	Beryllium bronze, Gold	Beryllium bronze, Gold
Insertion Loss (dB Max)	0.05*Sqrt(f_GHz)	0.05*Sqrt(f_GHz)

Outline Drawing:





Ordering Information:

Base Number	Lenth (Unit mm)	Custom Design Services
G034CNCN-SMAMSMAM	**-L**	**LEAVE BLANK(NOT REQUIRED) -Loop (Stress relief loop)**

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Test Curve for 1m length cable @ room temperature: