

Semi-rigid Ultra Low Loss Coax Cable Assembly

GL2/1.85 Male /1.85 Male/DC-40 GHz

Model:GL2-1.85M1.85M-L

Features:

- Max Frequency 40 GHz
- VSWR max of 1.30
- Velocity of Propagation of 76%

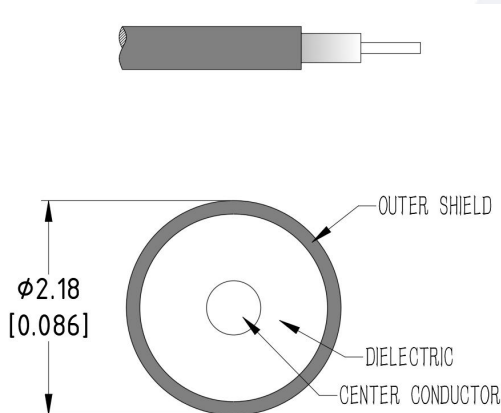
Applications:

- Test & Measurement equipment
- Manufacturing lab
- WAN system equipment

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		67	GHz
VSWR		1.25	1.3	:1
Velocity of propagation		76%		
Shielding Effectiveness	90			dB
Capacitance			81	pF/m
Phase Stability Vs. Temperature			1500	PPM

Cable Cross Section:



Envrionmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	2.18	mm
Min. Bending Radius	7	mm
Typical Flex life	50000	
Operating Temperature	-55 to +200	°C
Storage Temperature	-55 to +200	°C

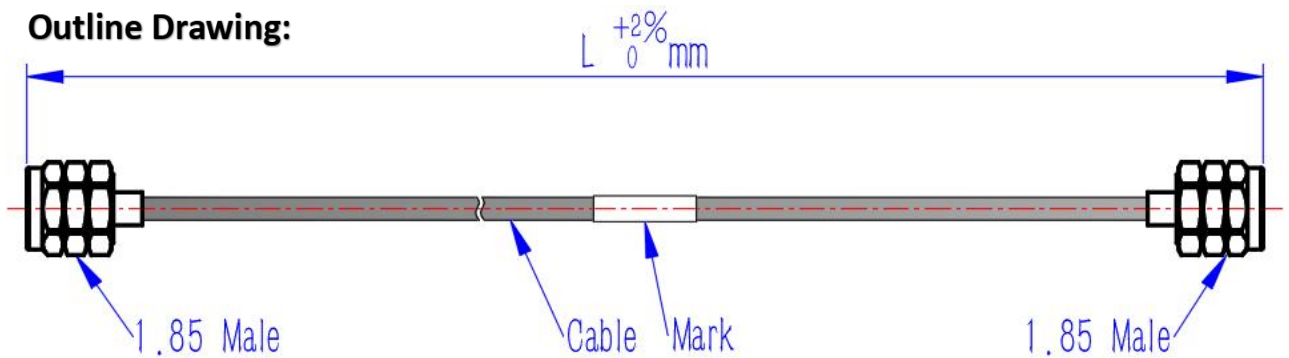
Cable Performance By Frequency

Frequency	2 GHz	4 GHz	6 GHz	8 GHz	12 GHz	16 GHz	18 GHz	26.5 GHz	40GHz
Insertion Loss (dB/m Max)	0.78	1.11	1.37	1.59	1.96	2.27	2.42	2.96	3.68
RF Power CW (W Max.)	183	128	104	90	73	63	59	48	39

Connectors:

Description	Connector 1	Connector 2
Type	1.85mm Straight Male	1.85mm Straight Male
Contact Material And Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PEI	PEI
Body Material And Plating	Passivated Stainless Steel	Passivated Stainless Steel
Insertion Loss (dB Max)	$0.05 * \sqrt{f_{\text{GHz}}}$	$0.05 * \sqrt{f_{\text{GHz}}}$

Outline Drawing:



Ordering Information:

Base Number	Lenth	Armour (optional)	Phase/delay Matched (optional)
GL2-1.85M1.85M	-L	-	-

Typical Performance Data:

Model:GL2-1.85M1.85M-1m

Frequency	2 GHz		6 GHz		12 GHz		18 GHz		26.5 GHz		40GHz	
	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss	0.85	0.92	1.49	1.61	2.13	2.30	2.63	2.84	3.22	3.47	4.00	4.31
VSWR	1.05	1.10	1.05	1.10	1.10	1.15	1.15	1.20	1.20	1.25	1.25	1.30

