

Features & Benefits

- 086 size, operating to 40 GHz,cutoff freq 68 GHz
- Excellent temp phase stability < 750ppm(-50~+85 °C)
- Lowest loss performance for its size
- Ideal for precise installation in high-end equipment

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	0.59	Solid silver-plated copper
2	Dielectric	1.68	LD-PTFE wrapping
3	Outer Conductor	2.18	Bare copper or ternary alloy plated copper

Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
Velocity of Propagation	81%
Shielding Effectiveness	>120 dB @8 GHz
Working Voltage (DC)	500 V
Temperature phase stability	<750ppm(-50~+85 °C)

Mechanical & Environmental

Inside Bend Radius	8mm
Weight	20g/m
Temperature (Operation)	-60~200 °C

Attenuation(Typical@25℃&VSWR=1.0) & Power(VSWR=1.0; 40℃; Sea level)

Frequency MHz	300	1000	2000	4000	6000	8000	10000	18000	26500	30000	40000
dB/100 Meter	29.7	54.5	77.4	110.1	135.5	157.1	176.2	238.9	292.4	312.1	363.4
Avg.Power kW	0.476	0.260	0.183	0.128	0.104	0.090	0.080	0.059	0.048	0.045	0.039

Attenuation at any frequency=[1.70681×SQRT(FMHz)]+[0.000550×FMHz]

Available connectors

Cable P/N	Connectors	Gender	Connector type	Mounting	Max Freq.(GHz)	VSWR Max
SG086L	2.92mm	Male/Female	Direct solder/Clamp	Standard	40	1.3
SG086L	2.4mm	Male	Direct solder/Clamp	Standard	40	1.3
SG086L	SMA	Male/Female	Direct solder	Standard	18	1.25
SG086L	SMA	Male/Female	Clamp	Standard	26.5	1.3

Other connectors available upon request.