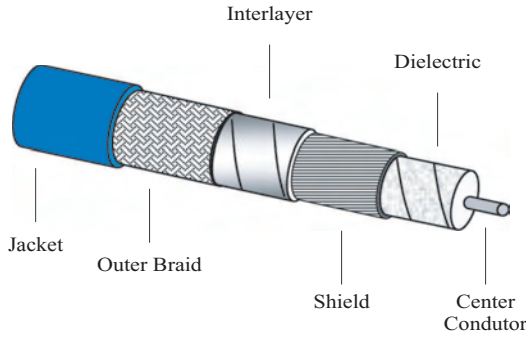


MaxGain



Center Conductor: Silver Plated Copper
 Dielectric: Microporus PTFE
 Shield: Silver Plated Copper
 Interlayer: Metalized Mylar Tape
 Outer Braid: Silver Plated Copper Braid
 Jacket: Blue FEP

Connectors:

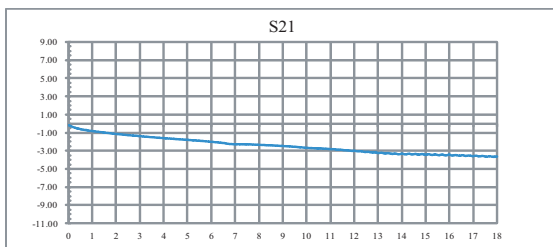
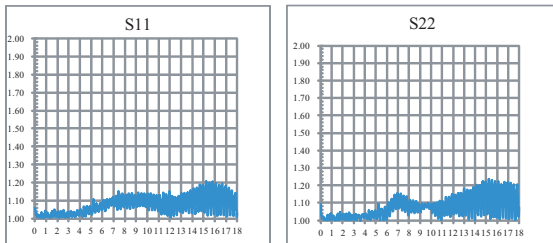
Connectors are available with a wide range of interfaces, including SMA, N, TNC, etc., for professional technicians to build up cable assemblies. Please consult Times Microwave Systems with your requirements.



Cable Assembly:

Times Microwave Systems provides Maxgain as assemblies to meet a broad range of applicatoin requirements. Below are the typical curves for MG-300 assembly for reference:

MG-300/5M/SM/SM



	MaxGain-300		MaxGain-300S		MaxGain-200	
AA Drawing Number	AA-9857		AA-9999		AA-9889	
Physical Specifications						
Description	in	(mm)	in	(mm)	in	(mm)
Center Conductor	0.087	2.21	0.092	2.34	0.0508	1.29
Dielectric	0.243	6.17	0.245	6.22	0.146	3.71
Shield	0.246	6.25	0.248	6.30	0.151	3.84
Interlayer	0.252	6.40	0.252	6.40	0.156	3.96
Outer braid	0.276	7.01	0.276	7.01	0.174	4.42
Jacket	0.302	7.67	0.302	7.67	0.200	5.00
Mechanical Specifications						
Diameter	0.306	7.772	0.306	7.772	0.204	5.182
Bend Radius	1.750	44.45	1.750	44.45	1.250	31.75
Weight	0.093 lb/ft		0.093 lb/ft		0.090 lb/ft	
Operating Temperature Range	-65/+150°C		-65/+150°C		-65/+150°C	
Electrical Specifications						
Impedance	50 ohms		50 ohms		50 ohms	
Velocity of Propagation	81%		81%		80%	
Capacitance	24.75 pf/ft		24.75 pf/ft		25.0 pf/ft	
Delay	1.25 nsec/ft		1.25 nsec/ft		1.27 nsec/ft	
Shielding Effectiveness	-90 dB		-90 dB		-90 dB	
Insertion loss	0.20 dB/Ft @ 18.0 GHz		0.255 dB/Ft @18 GHz		0.33 dB/Ft @18 GHz	
Nominal Attenuation: dB/100ft (100m) (+25°C Ambient)						
100 MHz	1.3	4.4	1.7	5.7	2.3	7.5
400 MHz	2.7	8.9	3.5	11.4	4.6	15.2
1000 MHz	4.3	14.2	5.6	18.2	7.4	24.2
3000 MHz	7.6	25.1	9.8	32.2	12.9	42.4
8000 MHz	12.9	42.2	16.4	53.9	21.5	70.6
10000 MHz	14.5	47.6	18.5	60.8	24.2	79.3
12000 MHz	16.0	52.6	20.4	67.0	26.6	87.4
13500 MHz	17.1	56.1	21.8	71.4	28.4	93.0
18000 MHz	20.1	65.8	25.5	83.6	33.1	108.4
k1	0.1325600		0.1715000		0.2287000	
k2	0.0001259		0.0001373		0.0001321	
Power (kW) (+25°C Ambient; Sea Level)						
100 MHz	5.51		4.29		2.40	
400 MHz	2.72		2.12		1.19	
1000 MHz	1.70		1.33		0.74	
3000 MHz	0.96		0.75		0.42	
8000 MHz	0.56		0.44		0.25	
10000 MHz	0.50		0.39		0.22	
12000 MHz	0.45		0.35		0.20	
13500 MHz	0.42		0.33		0.19	
18000 MHz	0.36		0.28		0.16	