

DC - 50 GHz Ultra Low Loss Coaxial Cable Assemblies

- Times Microwave's Unique Spiral Outer Conductor Technology
- Lighter Weight Compared to Competing Technologies



MaxGain® ultra low loss, flexible microwave coaxial cable and a full range of passivated stainless steel connectors are available as fully tested custom cable assemblies.

MaxGain® assemblies are used for general applications in both field and laboratory conditions. They are ideally suited for applications where lowest loss and good stability over flexure is required.

Features & Benefits:

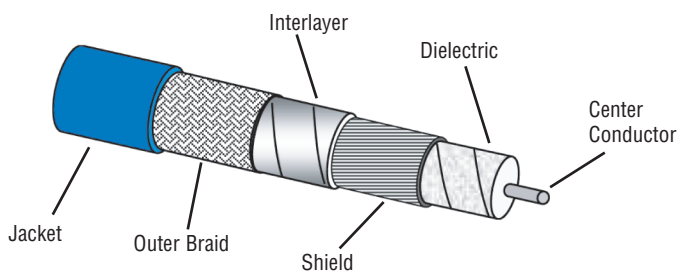
- Lowest insertion loss available, DC - 50 GHz
- Ultra stable insertion loss and VSWR with flexing
- With wide temperature range (-65° C to + 150° C)
- Extremely flexible, low minimum bend radius
- Superior shielding effectiveness (> 90 dB)
- Typical VSWR for assemblies is <1.40:1 at maximum frequencies

Connectors are available in a wide range of precision interfaces including: Type N, TNC SMA, 2.92mm (k), 2.4mm, SMP and MMP. Replaceable interface versions also available.



	MaxGain-300		MaxGain-200		MaxGain-160		MaxGain-130	
Times Cable Drawing	AA-9857		AA-9889		AA-11258		AA-11521	
Mechanical Specifications								
Bend Radius (in/mm)	1.75	44.45	1.25	31.8	0.75	19.0	0.625	15.9
Weight (lbs/ft / grams/m)	0.093	138.5	0.037	55.1	0.026	38.7	0.018	27.5
Operating Temperature	-55/+150° C		-55/+150° C		-55/+150° C		-55/+150° C	
Electrical Specifications								
Impedance	50 Ohms		50 Ohms		50 Ohms		50 Ohms	
Velocity of Propagation	81%		80%		80%		80%	
Capacitance	24.8 pF/ft	81.2 pF/m	25.4 pF/ft	83.3 pF/m	25.4 pF/ft	83.3 pF/m	25.4 pF/ft	83.3 pF/m
Delay	1.25 nSec/ft	4.10 nSec/m	1.27 nSec/ft	4.17 nSec/m	1.27 nSec/ft	4.17 nSec/m	1.27 nSec/ft	4.17 nSec/m
Shielding Effectiveness (min)	-90 dB		-90 dB		-90 dB		-90 dB	
Nominal Attenuation:	dB/100ft (100m) (25° C Ambient)							
100 MHz	1.3	4.4	2.3	7.5	3.7	12.1	4.3	14.2
400 MHz	2.7	8.9	4.6	15.2	7.4	24.3	8.7	28.4
1000 MHz	4.3	14.2	7.4	24.2	11.8	38.7	13.8	45.1
3000 MHz	7.6	25.1	12.9	42.4	20.6	67.6	24.0	78.9
8000 MHz	12.9	42.2	21.5	70.6	34.1	111.8	39.8	130.4
10000 MHz	14.5	47.6	24.2	79.3	38.3	125.5	44.6	146.4
12000 MHz	16.0	52.6	26.6	87.4	42.1	138.0	49.1	160.9
13500 MHz	17.1	56.1	28.4	93.0	44.7	146.7	52.2	171.1
18000 MHz	20.1	65.8	33.1	108.4	52.0	170.6	60.6	198.9
30000 MHz	-	-	-	-	68.1	223.5	79.4	260.4
40000 MHz	-	-	-	-	79.5	260.7	92.5	303.5
50000 MHz	-	-	-	-	-	-	104.3	342.2

Individual MaxGain® cable data sheets are available upon request



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



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