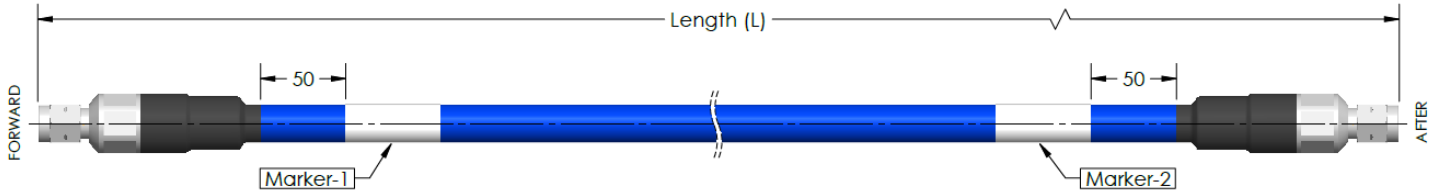


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REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	10/20/22	YA



Dwg. Number	Customer P/N	Times P/N	Length(L) in 'mm'
IE-00411-01	-	MGS300-SMSM-1.0M	1000 +20/-0
IE-00411-02	-	MGS300-SMSM-2.0M	2000 +40/-0
IE-00411-03	-	MGS300-SMSM-2.5M	2500 +50/-0
IE-00411-04	-	MGS300-SMSM-3.0M	3000 +60/-0

1.0 Scope

This drawing documents the construction and performance of Maxgain 300 cable assemblies manufactured by Times Microwave systems.

2.0 Cable Information

- 2.1 Cable to be MAXGAIN 300
- 2.2 Jacket color to be Blue
- 2.3 Jacket material to be FEP
- 2.4 Nominal cable impedance to be 50 ohms
- 2.5 Cable diameter to be 7.98mm [0.314"] (Nominal).


3.0 Connector Information

- 3.1 Forward Connector
 - Type SMA (M) Straight Connector (SP052)
 - Connector Body – Stainless Steel, Passivated
 - Center Contact – Beryllium Copper, Gold Plated
- 3.2 After Connector
 - Type SMA (M) Straight Connector (SP052)
 - Connector Body – Stainless Steel, Passivated
 - Center Contact – Beryllium Copper, Gold Plated

Unless otherwise specified, dimensions are in MM. Tolerances are applicable when specified.

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Approvals		
Drawn	YA	10/20/22
Checked		
Approved		



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MG300 CABLE ASSEMBLY
(Space Assemblies)

Size A	CAGE CODE 68999	Drawing No.: IE-00411-XX
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Scale: NA	Rev. (A)	Sheet: 1 of 3
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4.0 Electrical Performance

- 4.1 Frequency range: DC – 18GHz
- 4.2 Insertion loss & VSWR: As per below table,

Dwg. Number	Max. Insertion Loss in dB	Max. VSWR
	@ 18GHz	@ 18GHz
IE-00411-01	1.21	1.25
IE-00411-02	2.09	1.25
IE-00411-03	2.64	1.25
IE-00411-04	2.86	1.25

5.0 Mechanical Performance

- 5.1 Overall Length to be specified length.
- 5.2 Minimum Bend radius is 44.45mm [1.750"].

6.0 Environmental Performance


- 6.1 Installation Temperature Range (-55°C to +150°C)
- 6.2 Storage Temperature Range (-55°C to +150°C)
- 6.3 Operating Temperature Range (-55°C to +150°C)

7.0 Marking

- 7.1 Markers are to be black text on White Color Marker Sleeve.
- 7.2 Marker Configuration to be:

Dwg. Number	Marking details	Marker Numbers	Marker Position
IE-00411-01	Times Microwave Systems MGS300-SMSM-1.0M \$\$\$\$\$	1	In center of the cable assy.
IE-00411-02	Times Microwave Systems MGS300-SMSM-2.0M \$\$\$\$\$	1 & 2	At both ends.
IE-00411-03	Times Microwave Systems MGS300-SMSM-2.5M \$\$\$\$\$	1 & 2	At both ends.
IE-00411-04	Times Microwave Systems MGS300-SMSM-3.0M \$\$\$\$\$	1 & 2	At both ends.

- 7.3 \$\$\$\$\$ = 5-digit Serial Number for this specific configuration.
- 7.4 Register to be Maintained for Serial Number.

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			Size A CAGE CODE 68999 Drawing No.: IE-00411-XX	
			Scale: NA Rev. (A) Sheet: 2 of 3	

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8.0 NOTES

- 8.1 All Dimensions are in MM.
- 8.2 Assemblies built in Class 100,000 clean room.
- 8.3 Low outgassing materials per ASTM E595.
- 8.4 Unless Otherwise Specified: Tolerance will be,

Linear Dimension	Tolerance
<500 mm	±10 mm
500-2000 mm	±15 mm
>2000 mm	±20 mm

****Tolerances are not accumulative.**

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**MG300 CABLE ASSEMBLY
(Space Assemblies)**

Size A	CAGE CODE 68999	Drawing No.: IE-00411-XX
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Scale: NA

Rev. (A)

Sheet: 3 of 3