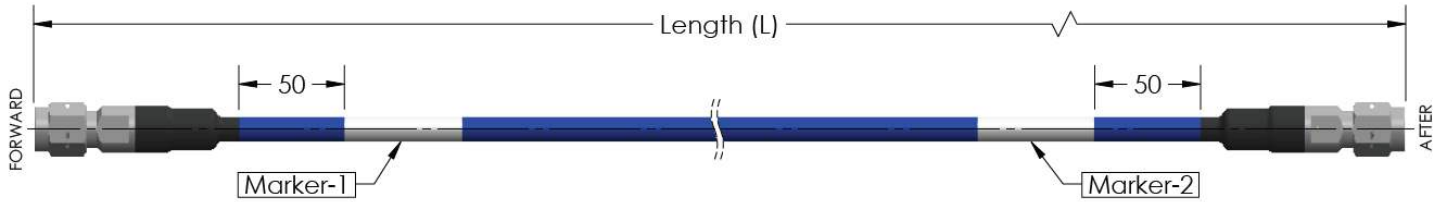


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REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	10/19/22	YA



Dwg. Number	Customer P/N	Times P/N	Length(L) in 'mm'
IE-00407-01	-	MGS160-KMKM-0.5M	500 +10/-0
IE-00407-02	-	MGS160-KMKM-1.0M	1000 +20/-0
IE-00407-03	-	MGS160-KMKM-1.5M	1500 +30/-0
IE-00407-04	-	MGS160-KMKM-2.0M	2000 +40/-0

1.0 Scope

This drawing documents the construction and performance of Maxgain 160 cable assemblies manufactured by Times Microwave systems.

2.0 Cable Information

- 2.1 Cable to be MAXGAIN 160
- 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 4.04mm [0.159"] (Nominal).

3.0 Connector Information

- 3.1 Forward Connector
 - Type 2.92mm (M) Straight Connector (SP029)
 - Connector Body – Stainless Steel, Passivated
 - Center Contact – Beryllium Copper, Gold Plated
- 3.2 After Connector
 - Type 2.92mm (M) Straight Connector (SP029)
 - Connector Body – Stainless Steel, Passivated
 - Center Contact – Beryllium Copper, Gold Plated

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

These drawings and specifications contain proprietary information which is the property of Times Microwave Systems.

Approvals		
Drawn	YA	10/19/22
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MG160 CABLE ASSEMBLY
(Space Assemblies)

Size A	CAGE CODE 68999	Drawing No.: IE-00407-XX
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Scale: NA

Rev. (A)

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4.0 Electrical Performance

- 4.1 Frequency range: DC – 40GHz
- 4.2 Insertion loss & VSWR: As per below table,

Dwg. Number	Max. Insertion Loss in dB	Max. VSWR
	@ 40GHz	@ 40GHz
IE-00407-01	1.98	1.40
IE-00407-02	3.41	1.40
IE-00407-03	4.81	1.40
IE-00407-04	6.27	1.40

5.0 Mechanical Performance

- 5.1 Overall Length to be specified length.
- 5.2 Minimum Bend radius is 19mm [0.750"].

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-00407-01	Times Microwave Systems MGS160-KMKM-0.5M \$\$\$\$\$	1	In center of the cable assy.
IE-00407-02	Times Microwave Systems MGS160-KMKM-1.0M \$\$\$\$\$	1	In center of the cable assy.
IE-00407-03	Times Microwave Systems MGS160-KMKM-1.5M \$\$\$\$\$	1 & 2	At both ends.
IE-00407-04	Times Microwave Systems MGS160-KMKM-2.0M \$\$\$\$\$	1 & 2	At both ends.

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

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

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Approved			Size A	CAGE CODE 68999	Drawing No.: IE-00407-XX
			Scale: NA		Rev. (A)
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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.**

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

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**MG160 CABLE ASSEMBLY
(Space Assemblies)**

Size A	CAGE CODE 68999	Drawing No.: IE-00407-XX
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Scale: NA

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