

## G Series Semi-rigid Cable Assemblies

G3/SMA Male / SMA Male/DC-26.5 GHz

Model: G3-SMAMSMAM-L

### Features:

- Max Frequency 26.5 GHz
- VSWR max of 1.30
- Velocity of Propagation of 70%

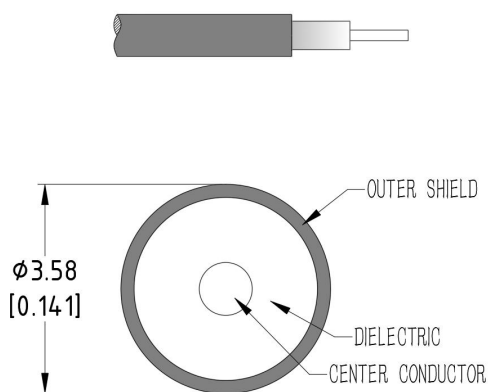
### Applications:

- Test & Measurement equipment
- Manufacturing lab
- WAN system equipment

### Electrical Characteristics:

| Parameter               | Min | Typ  | Max  | Units |
|-------------------------|-----|------|------|-------|
| Frequency Range         | DC  |      | 26.5 | GHz   |
| VSWR                    |     | 1.25 | 1.3  | :1    |
| Velocity of propagation |     | 70%  |      |       |
| Shielding Effectiveness | 90  |      |      | dB    |
| Capacitance             |     |      | 81   | pF/m  |

### Cable Cross Section:



### Envrionmental And Physical Characteristics:

| Description           | Parameter   | Units |
|-----------------------|-------------|-------|
| Cable Diameter        | 3.58        | mm    |
| Min. Bending Radius   | 18          | mm    |
| Typical Flex life     | 50000       |       |
| Operating Temperature | -55 to +200 | °C    |
| Storage Temperature   | -55 to +200 | °C    |

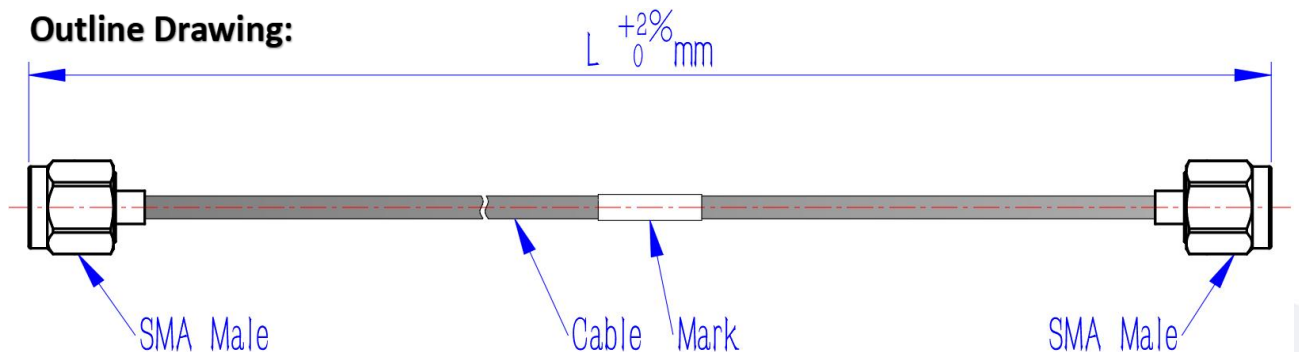
### Cable Performance By Frequency

| Frequency                  | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 12 GHz | 16 GHz | 18 GHz | 26.5 GHz |
|----------------------------|-------|-------|-------|-------|--------|--------|--------|----------|
| Insertion Loss (dB/m Max ) | 0.56  | 0.84  | 1.07  | 1.29  | 1.66   | 2.00   | 2.16   | 2.81     |
| RF Power CW (W Max.)       | 181   | 121   | 95    | 79    | 62     | 51     | 47     | 36       |

## Connectors:

| Description                  | Connector 1                        | Connector 2                        |
|------------------------------|------------------------------------|------------------------------------|
| Type                         | SMA Straight Male                  | SMA Straight Male                  |
| Contact Material And Plating | Brass,Gold                         | Brass,Gold                         |
| Dielectric Type              | PTFE                               | PTFE                               |
| Body Material And Plating    | Passivated Stainless Steel         | Passivated Stainless Steel         |
| Insertion Loss (dB Max)      | $0.05 \cdot \sqrt{f_{\text{GHz}}}$ | $0.05 \cdot \sqrt{f_{\text{GHz}}}$ |

## Outline Drawing:



## Ordering Information:

| Base Number | Length<br>(Unit meters) | Phase/delay Matched                                                             |
|-------------|-------------------------|---------------------------------------------------------------------------------|
| G3-SMAMSMAM | -L                      | LEAVE BLANK(NOT REQUIRED)<br>-XXPS( $\leq \pm XX$ PS)<br>-XX°( $\pm XX^\circ$ ) |

## Typical Performance Data:

Model:G3-SMAMSMAM-1m

| Frequency      | 2 GHz |      | 6 GHz |      | 12 GHz |      | 18 GHz |      | 26.5 GHz |      |
|----------------|-------|------|-------|------|--------|------|--------|------|----------|------|
|                | Typ   | Max  | Typ   | Max  | Typ    | Max  | Typ    | Max  | Typ      | Max  |
| Insertion Loss | 0.63  | 0.70 | 1.20  | 1.32 | 1.83   | 2.00 | 2.37   | 2.59 | 3.06     | 3.32 |
| VSWR           | 1.05  | 1.10 | 1.10  | 1.15 | 1.15   | 1.20 | 1.20   | 1.25 | 1.25     | 1.30 |