泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

# G Series Semi-rigid Cable Assemblies

## G2/SMA Male /SMA Right Angle Male/DC-18 GHz Model: G2-SMAMSMAWM-L

### Features:

- Max Frequency 18 GHz
- VSWR max of 1.30
- Velocity of Propagation of 70%

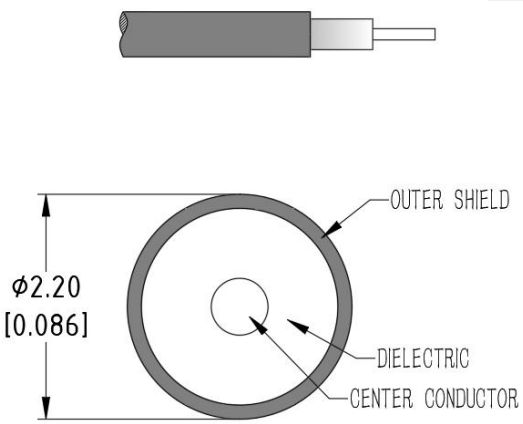
### Applications:

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

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 18 | 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 | 10 | mm |
| Min. Bending Radius | 15 | mm |
| Typical Flex life | 50000 | |
| Operating Temerature | -55 to +200 | ℃ |
| Storage Temerature | -55 to +200 | ℃ |

### Cable Performance By Frequency

| Frequency | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 12 GHz | 16 GHz | 18 GHz | 26.5 GHz | 40GHz |
|---|---|---|---|---|---|---|---|---|---|
| Insertion Loss (dB/m Max ) | 1.00 | 1.46 | 1.84 | 2.16 | 2.74 | 3.24 | 3.48 | 4.41 | 5.71 |
| RF Power CW (W Max.) | 69 | 47 | 38 | 32 | 25 | 21 | 20 | 16 | 12 |

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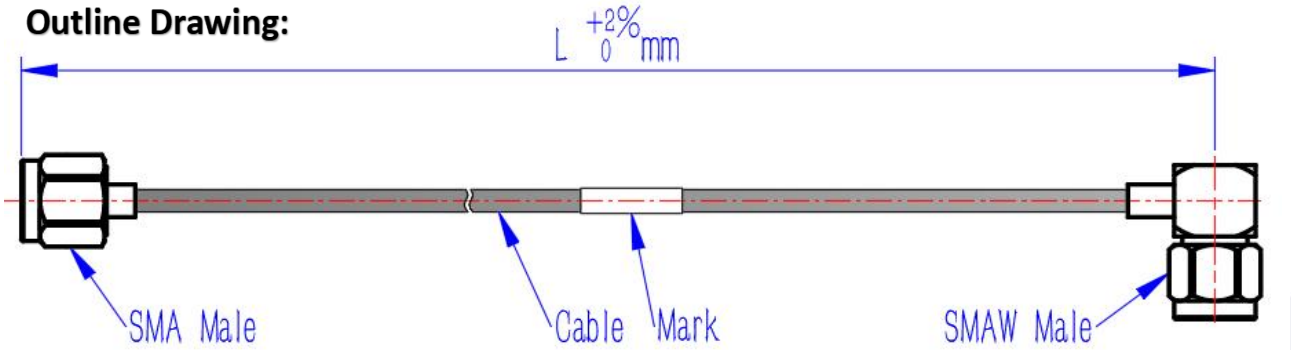
## Connectors:

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Straight Male | SMA Right Angle Male |
| Contact Matericl And Plating | Brass,Gold | Beryllium Copper,Gold |
| Dielectric Type | PTFE | PTFE |
| Body Matericl And Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Insertion Loss (dB Max) | 0.05*Sqrt(f_GHz) | 0.05*Sqrt(f_GHz) |

## Outline Drawing:




## Ordering Information:

| Base Number | Lenth (Unit meters) | Armour | Phase/delay Matched |
|---|---|---|---|
| **G2-SMAMSMAWM** | **-L** | **LEAVE BLANK(**NOT REQUIRED)<br>**-A**(默认黑色尼龙铠甲)<br>**-AS**(不锈钢铠甲)<br>**-AP**(PUR防水铠甲)<br>**-AT**(透明铠甲) | **LEAVE BLANK(**NOT REQUIRED)<br>**-XXPS**(≤±XX PS)<br>**-XX°**(±XX°) |

## Typical Performance Data:

**Model:G2-SMAMSMAWM-1m**

| Frequency | 2 GHz | | 6 GHz | | 12 GHz | | 18 GHz | |
|---|---|---|---|---|---|---|---|---|
| | Typ | Max | Typ | Max | Typ | Max | Typ | Max |
| Insertion Loss （dB） | 1.07 | 1.14 | 1.96 | 2.08 | 2.91 | 3.08 | 3.69 | 3.91 |
| VSWR | 1.08 | 1.15 | 1.15 | 1.2 | 1.2 | 1.25 | 1.25 | 1.30 |