



S1-SMAMSMAL-L

Flexible Low Loss Phase Stable Flexible Sable Assemblies

S1/SMA Male /SMA Female/DC-26.5 GHz

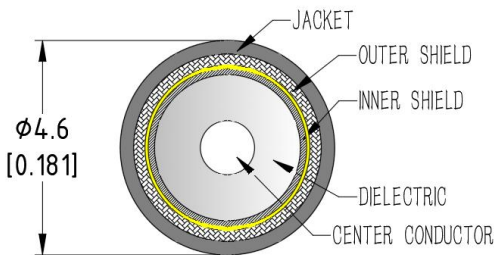
Features:

- Max Frequency 26.5 GHz
- VSWR max of 1.30
- Velocity of Propagation of 76%

Applications:

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

Cable Cross Section:



Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|-----|-------|------|-------|
| Frequency Range | DC | | 26.5 | GHz |
| VSWR | | 1.25 | 1.3 | :1 |
| Velocity of propagation | | 74% | | |
| Shielding Effectiveness | 90 | | | dB |
| Capacitance | | | 87.7 | pF/m |
| Phase Stability Vs. Flexure@26.5GHz | | ±3 | | ° |
| Amplitude Stability Vs. Flexure@26.5GHz | | ±0.03 | | dB |
| Phase Stability Vs. Temperature | | 1000 | | PPM |

Environmental And Physical Characteristics:

| Description | Parameter | Units |
|-----------------------|-------------|-------|
| Cable Diameter | 4.6 | mm |
| Cable Jacket | FEP | |
| Min. Bending Radius | 23 | mm |
| Typical Flex life | 50000 | |
| Operating Temperature | -55 to +165 | °C |
| Storage Temperature | -55 to +200 | °C |

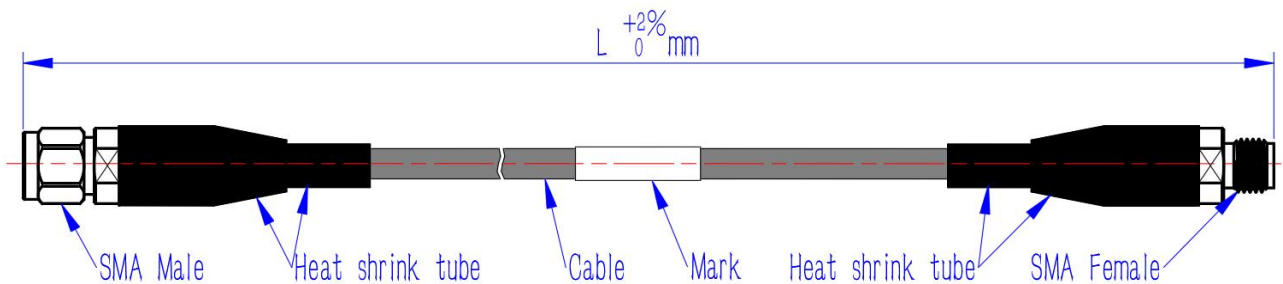
Cable Performance By Frequency:

| Frequency | 1 GHz | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 12 GHz | 16GHz | 18 GHz | 20GHz | 26.5 GHz |
|---------------------------|-------|-------|-------|-------|-------|--------|-------|--------|-------|----------|
| Insertion Loss (dB/m Max) | 0.35 | 0.50 | 0.72 | 0.89 | 1.16 | 1.28 | 1.49 | 1.58 | 1.67 | 1.95 |
| RF Power CW (W Max.) | 569 | 400 | 280 | 227 | 174 | 158 | 136 | 127 | 120 | 103 |

Connectors:

| Description | Connector 1 | Connector 2 |
|------------------------------|----------------------------|----------------------------|
| Type | SMA Straight Male | SMA Female |
| Contact Material And Plating | Brass,Gold | Beryllium Copper,Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material 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 |
|-------------|---------------------|---|--|
| S1-SMAMSMAF | -L | LEAVE BLANK(NOT REQUIRED) -A(默认黑色尼龙铠甲) -AS(不锈钢铠甲) -AP(PUR防水铠甲) -AT(透明铠甲) | LEAVE BLANK(NOT REQUIRED) -XXPS($\leq \pm XX$ PS) -XX°($\pm XX^\circ$) |

Typical Performance Data:

Model:S1-SMAMSMAF-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 (dB) | 0.57 | 0.64 | 1.00 | 1.13 | 1.45 | 1.62 | 1.79 | 2.01 | 2.10 | 2.30 |
| VSWR | 1.03 | 1.05 | 1.10 | 1.15 | 1.20 | 1.25 | 1.25 | 1.30 | 1.25 | 1.30 |

