



Phaseline Series High Performance Phase Stable Test Cable

GP26 / SMA Male / SMA Male / DC-26.5 GHz

Model: GP26-SMAM-SMAM-L

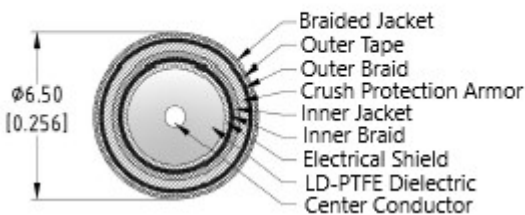
Features:

- 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 | | 1.20 | 1.25 | :1 |
| Velocity of propagation | | 76% | | |
| Shielding Effectiveness | 90 | | | dB |
| Capacitance | | | 87 | pF/m |
| Phase Stability Vs. Flexure@26.5GHz | | ±4 | | ° |
| Amplitude Stability Vs. Flexure@26.5GHz | | ±0.03 | | dB |
| Phase Stability Vs. Temperature | | 1000 | | PPM |

Environmental And Physical Characteristics:

| Description | Parameter | Units |
|-----------------------|-------------|-------|
| Cable Diameter | 6.5 | mm |
| Cable Jacket | PTFE | |
| Min. Bending Radius | 75 | mm |
| Typical Flex life | 50000 | |
| Operating Temperature | -55 to +150 | °C |
| Storage Temperature | -55 to +150 | °C |

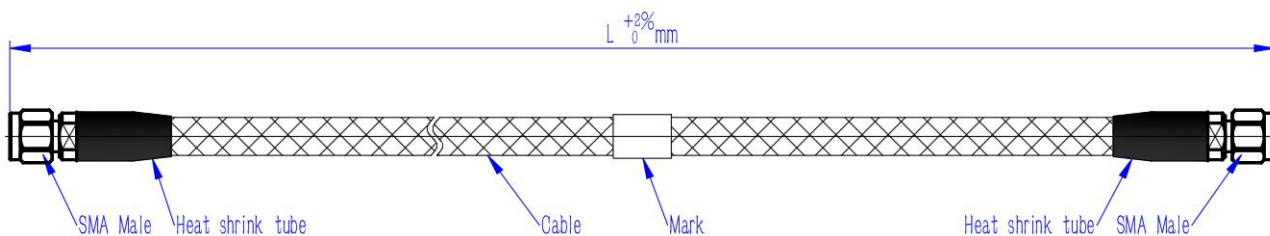
Cable Performance By Frequency

| Frequency | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 10 GHz | 12 GHz | 16 GHz | 18 GHz | 26.5 GHz |
|---------------------------|-------|-------|-------|-------|--------|--------|--------|--------|----------|
| Insertion Loss (dB/m Max) | 0.40 | 0.58 | 0.75 | 0.87 | 0.99 | 1.10 | 1.33 | 1.45 | 1.80 |
| RF Power CW (W Max.) | 431 | 302 | 245 | 211 | 190 | 171 | 147 | 138 | 112 |

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 (Unit meters) | Phase/delay Matched |
|----------------|----------------------|---|
| GP26-SMAM-SMAM | -L | <p>LEAVE BLANK(NOT REQUIRED)</p> <p>-XXPS($\leq \pm XX$ PS)</p> <p>-XX°($\pm XX^\circ$)</p> |

Typical Performance Data:

Model: GP26-SMAM-SMAM-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 | 0.52 | 0.65 | 0.85 | 1.1 | 1.33 | 1.58 | 1.65 | 1.85 | 2.01 | 2.2 |
| VSWR | 1.03 | 1.05 | 1.05 | 1.10 | 1.10 | 1.15 | 1.15 | 1.30 | 1.20 | 1.30 |

