



Flexible Ultra Low Loss Coax Cable Assembly

A40P/SMA Male / SMA Male/DC-26.5 GHz

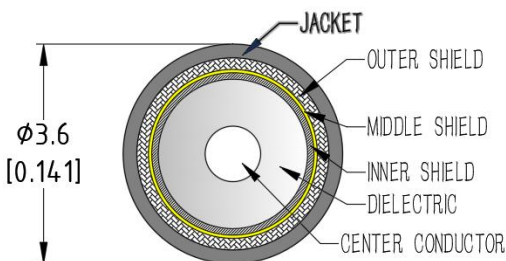
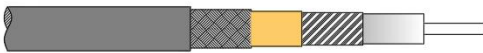
Features:

- 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 | | 76% | | |
| Shielding Effectiveness | 90 | | | dB |
| Capacitance | | | 81 | pF/m |
| Phase Stability Vs. Flexure | | ±3 | | ° |
| Amplitude Stability Vs. Flexure | | ±0.03 | | dB |
| Phase Stability Vs. Temperature | | 1000 | | PPM |

Environmental And Physical Characteristics:

| Description | Parameter | Units |
|-----------------------|-------------|-------|
| Cable Diameter | 3.6 | mm |
| Cable Jacket | FEP | |
| Min. Bending Radius | 18 | mm |
| Typical Flex life | 50000 | |
| Operating Temperature | -55 to +165 | °C |
| Storage Temperature | -55 to +165 | °C |

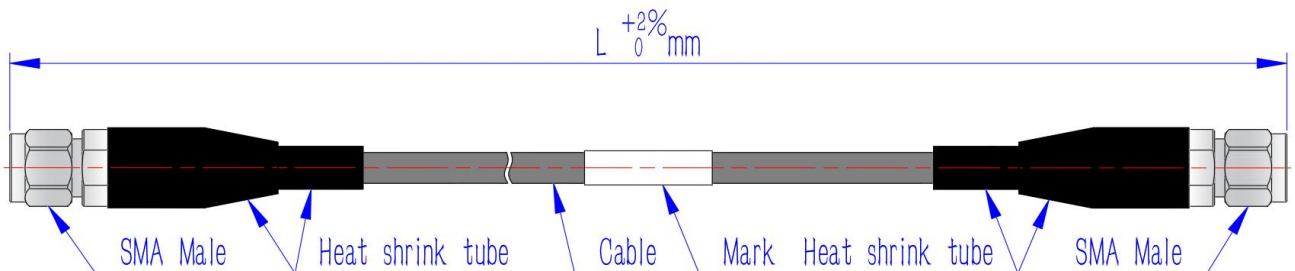
Cable Performance By Frequency

| Frequency | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 10 GHz | 12 GHz | 18 GHz | 26.5 GHz | 40 GHz | 50 GHz |
|---------------------------|-------|-------|-------|-------|--------|--------|--------|----------|--------|--------|
| Insertion Loss (dB/m Max) | 0.62 | 0.88 | 1.09 | 1.26 | 1.41 | 1.55 | 1.92 | 2.35 | 2.92 | 3.29 |
| RF Power CW (W Max.) | 503 | 435 | 353 | 305 | 272 | 142 | 200 | 164 | 132 | 117 |

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) | $0.05 * \sqrt{f_GHz}$ | $0.05 * \sqrt{f_GHz}$ |

Outline Drawing:



Ordering Information:

| Base Number | Length (Unit meters) | Armour | Phase/delay Matched |
|---------------|----------------------|---|---|
| A40P-SMAMSMAM | -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($\pm XX$ PS) -XX°($\pm XX^\circ$) |

Typical Performance Data:

Model:A40P-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 | 0.69 | 0.76 | 1.21 | 1.33 | 1.73 | 1.90 | 2.13 | 2.34 | 2.61 | 2.86 |
| VSWR | 1.05 | 1.10 | 1.10 | 1.15 | 1.15 | 1.25 | 1.20 | 1.30 | 1.25 | 1.30 |