

TLBend Ultra Flexible RF Cable Assembly

TLBend086H/SMA Male /SMA Male/DC-26.5GHz Model: TLBend086H-SMAMSMAM-L



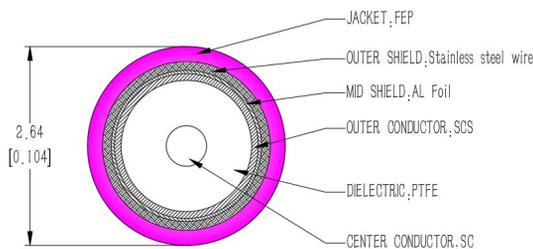
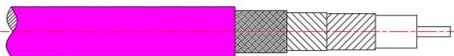
Features:

- Max Frequency 26.5GHz
- VSWR max of 1.35
- 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 | 1.35 | :1 |
| Velocity of propagation | | 76% | | |
| Shielding Effectiveness | 90 | | | dB |
| Capacitance | | 95.2 | | pF/m |
| Phase Stability Vs. Flexure@26.5GHz | | ±3 | | ° |
| Amplitude Stability Vs. Flexure@26.5GHz | | ±0.05 | | dB |

Environmental And Physical Characteristics:

| Description | Parameter | Units |
|------------------------------|-------------|-------|
| Cable Diameter | 2.64 | mm |
| Cable Jacket | FEP | |
| Min. Static Bending Radius | 10.56 | mm |
| Min. Repeated Bending Radius | 26.4 | mm |
| Operating Temperature | -55 to +165 | °C |
| Storage Temperature | -55 to +165 | °C |

Cable Performance By Frequency:

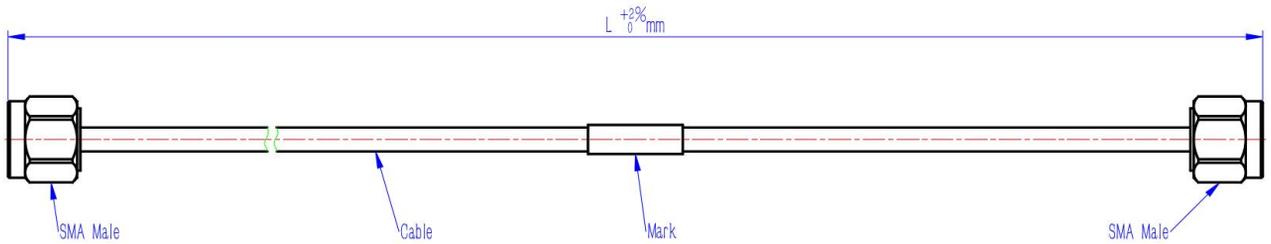
| Frequency | 1 GHz | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 10 GHz | 12 GHz | 18 GHz | 26.5 GHz |
|-----------|-------|-------|-------|-------|-------|--------|--------|--------|----------|
|-----------|-------|-------|-------|-------|-------|--------|--------|--------|----------|

Insertion Loss

Connectors:

| Description | Connector 1 | Connector 2 |
|------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Male |
| Contact Material And Plating | Beryllium Copper,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 | Length (Inches) |
|---------------------|-----------------|
| TLBend086H-SMAMSMAM | -L |

Standard Model:

| Part# | L (Inch) | 2 GHz | | 12.4 GHz | | 18 GHz | | 26.5 GHz | |
|------------------------|----------|-------|--------|----------|--------|--------|--------|----------|--------|
| | | VSWR | IL(dB) | VSWR | IL(dB) | VSWR | IL(dB) | VSWR | IL(dB) |
| TLBend086H-SMAMSMAM-3 | 3 | 1.15 | 0.14 | 1.20 | 0.35 | 1.30 | 0.42 | 1.35 | 0.51 |
| TLBend086H-SMAMSMAM-4 | 4 | 1.15 | 0.16 | 1.20 | 0.40 | 1.30 | 0.49 | 1.35 | 0.60 |
| TLBend086H-SMAMSMAM-6 | 6 | 1.15 | 0.20 | 1.20 | 0.52 | 1.30 | 0.63 | 1.35 | 0.77 |
| TLBend086H-SMAMSMAM-8 | 8 | 1.15 | 0.25 | 1.20 | 0.63 | 1.30 | 0.77 | 1.35 | 0.94 |
| TLBend086H-SMAMSMAM-10 | 10 | 1.15 | 0.29 | 1.20 | 0.74 | 1.30 | 0.91 | 1.35 | 1.11 |
| TLBend086H-SMAMSMAM-12 | 12 | 1.15 | 0.33 | 1.20 | 0.86 | 1.30 | 1.04 | 1.35 | 1.29 |
| TLBend086H-SMAMSMAM-14 | 14 | 1.15 | 0.38 | 1.20 | 0.97 | 1.30 | 1.18 | 1.35 | 1.46 |
| TLBend086H-SMAMSMAM-16 | 16 | 1.15 | 0.42 | 1.20 | 1.08 | 1.30 | 1.32 | 1.35 | 1.63 |
| TLBend086H-SMAMSMAM-18 | 18 | 1.15 | 0.46 | 1.20 | 1.20 | 1.30 | 1.46 | 1.35 | 1.80 |