



00100A1F5A1XXX

Cable Assembly

18GHz Enhanced SMA(M) –
Enhanced SMA(M) for SS402 Cable
Assembly/Adhesive shrink tube D

Features

- ✔ High Repeatability
- ✔ Low VSWR



Electrical Specifications

| | |
|--------------|--|
| Frequency | DC-18GHz |
| VSWR | 1.2:1(Max.)@DC-6GHz 1.3:1(Max.)@6-18GHz |
| Impedance | 50Ohm |
| Connection 1 | SMA Male |
| Connection 2 | SMA Male |

Material

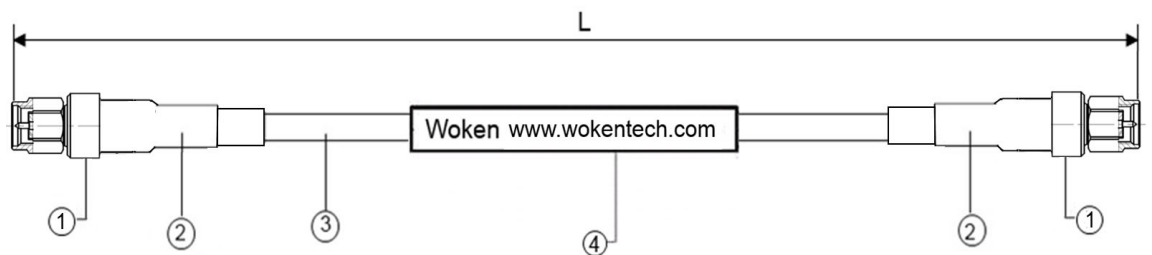
| Part | Material | Plated |
|-------------------------------|----------|--------|
| 1.SMA Connector | | |
| Body | Brass | Nickel |
| Center Pin | Brass | Gold |
| Insulator | Teflon | |
| 2.Double adhesive shrink tube | | |
| | | Black |
| 3.Cable | | |
| SS402 Coaxial Cable | | Blue |
| 4.Heat shrink tube | | |
| | | Yellow |

Mechanical

| | |
|------------|------------|
| Durability | 500 Cycles |
| 拉力 | 25Kg |

Outling Drawing (Unit:mm)

| DIMENSIONS | TOLERANCES |
|-------------|------------|
| 0.5~10mm | ±0.2 |
| 11~100mm | ±5.0 |
| 101~500mm | ±10.0 |
| 501~1000mm | ±15.0 |
| 1001~2000mm | ±20.0 |
| 2000~5000mm | ±50.0 |



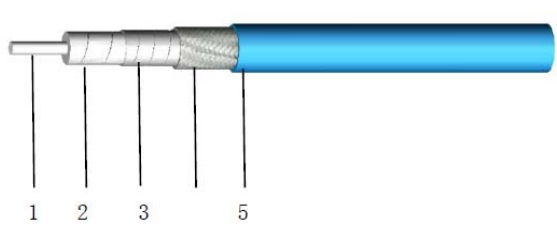


Wake up your further dream.


SS402 Spiral Shielding Coaxial Cable Physical Characteristics

| | |
|------------------------------------|-------------------------|
| Center Conductor | 0.92±0.02mm SPC |
| Dielectric Diameter | 3.00±0.05mm PTFE |
| Outer Conductor | 3.20±0.05mm SPCF |
| Outer Shield | 3.55±0.10mm SPCS |
| Jacket | 4.10±0.10mm FEP |
| Minimum Bend Radius Static | 12.7mm |
| Minimum Bend Radius Dynamic | 40mm |

SS402 Spiral Shielding Coaxial Cable Electrical Characteristics

| | | | |
|---|-------------------------|----------------------------------|-------------------------|
| Impedance | 50 ± 2ohms | | |
| Capacitance | 96.1 pF/m (nom.) | | |
| Max. Operating Frequency | 40GHz | | |
| Shielding Effect | 100 dB(Min.) | | |
| Operating Temperature | -55~ 165°C | | |
| Velocity of propagation | 70% | | |
|  | Frequency | Typical Attenuation(dB/m) | Power (Watts CW) |
| | 0.5GHz | 0.26 | 512 |
| | 1GHz | 0.38 | 351 |
| | 3GHz | 0.71 | 188 |
| | 6GHz | 1.08 | 125 |
| | 8GHz | 1.28 | 104 |
| | 10GHz | 1.48 | 91 |
| | 12GHz | 1.66 | 81 |
| | 18GHz | 2.16 | 62 |
| | 26.5GHz | 2.81 | 48 |
| | 40GHz | 3.74 | 36 |

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : $0.06 \times \sqrt{\text{頻率}}$ (2 端都有接頭則需將此數值 x2)
2. 組裝 Loss : 0.12 (2 端都有組裝則需將此數值 x2)
3. 線材 Loss : 依上述 Maximum Attenuation 換算需求長度之 Loss
4. 晃動測試公差: I/L +/-0.2dB