



00100A1G3X3XXX

## Cable Assembly

### 8GHz MMCX(P)R/A – SMA(M) for SS405 Cable Assembly

#### Features

- ✓ High Repeatability
- ✓ Low VSWR



#### Electrical Specifications

|              |                                           |
|--------------|-------------------------------------------|
| Frequency    | DC-8GHz                                   |
| VSWR         | 1.3:1(Max.)@DC-6GHz<br>1.4:1(Max.)@6-8GHz |
| Impedance    | 50Ohm                                     |
| Connection 1 | SMA Male                                  |
| Connection 2 | MMCX Plug Right Angle                     |

#### Material

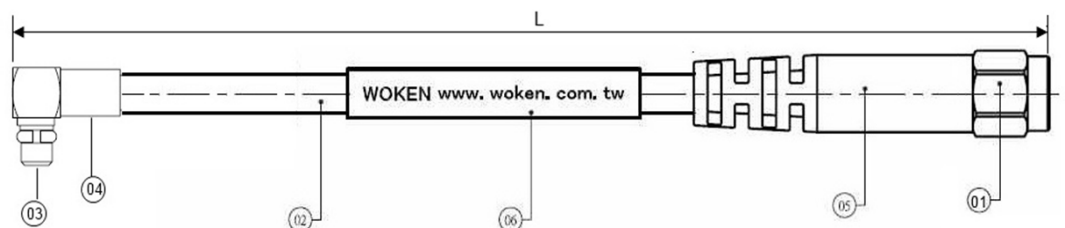
| Part                   | Material        | Plated |
|------------------------|-----------------|--------|
| 1.SMA Connector        |                 |        |
| Body                   | Stainless Steel |        |
| Center Pin             | Brass           | Gold   |
| Insulator              | Teflon          |        |
| 2.Cable                |                 |        |
| SS405 Coaxial Cable    |                 | Blue   |
| 3.MMCX Connector       |                 |        |
| Body                   | Brass           | Gold   |
| Center Pin             | Brass           | Gold   |
| Insulator              | Teflon          |        |
| 4.Adhesive shrink tube |                 | Black  |
| 5.Sleeve               |                 | Black  |
| 6.Heat Shrink Tube     |                 | Yellow |

#### Mechanical

|            |            |
|------------|------------|
| Durability | 500 Cycles |
|------------|------------|

#### 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.



## SS405 Spiral Shielding Coaxial Cable Physical Characteristics

|                     |                    |
|---------------------|--------------------|
| Center Conductor    | 0.51±0.01mm SPC    |
| Dielectric Diameter | 1.64±0.03mm PTFE   |
| Outer Conductor     | 1.80±0.05mm SWSPCB |
| Outer Shield        | 2.17±0.05mm SPCWB  |
| Jacket              | 2.80±0.05mm FEP    |
| Minimum Bend Radius | 10mm               |

## SS405 Spiral Shielding Coaxial Cable Electrical Characteristics

| Impedance                                                                           | 50 ± 2ohms     |                           |                  |
|-------------------------------------------------------------------------------------|----------------|---------------------------|------------------|
| Capacitance                                                                         | 98 pF/m (nom.) |                           |                  |
| Operating Frequency                                                                 | 18GHz          |                           |                  |
| Operating Temperature                                                               | -60~ 150°C     |                           |                  |
| Shielding Effect                                                                    | 100 dB(Min.)   |                           |                  |
| Velocity of propagation                                                             | 70%            |                           |                  |
| Structure                                                                           | Frequency      | Typical Attenuation(dB/m) | Power (Watts CW) |
|  | 0.5GHz         | 0.44                      | 338              |
|                                                                                     | 1GHz           | 0.66                      | 219              |
|                                                                                     | 5GHz           | 1.64                      | 80               |
|                                                                                     | 6GHz           | 1.82                      | 71               |
|                                                                                     | 10GHz          | 2.43                      | 52               |
|                                                                                     | 15GHz          | 3.06                      | 40               |
|                                                                                     | 18GHz          | 3.39                      | 36               |

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : 0.06 x  $\sqrt{\text{頻率}}$  (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