



# 00100A1G3P2XXX

## Cable Assembly

### 18GHz SMA(M)–SMP(F) for SS405 Cable Assembly

#### Features

- ✓ High Repeatability
- ✓ Low VSWR



#### Electrical Specifications

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

#### Material

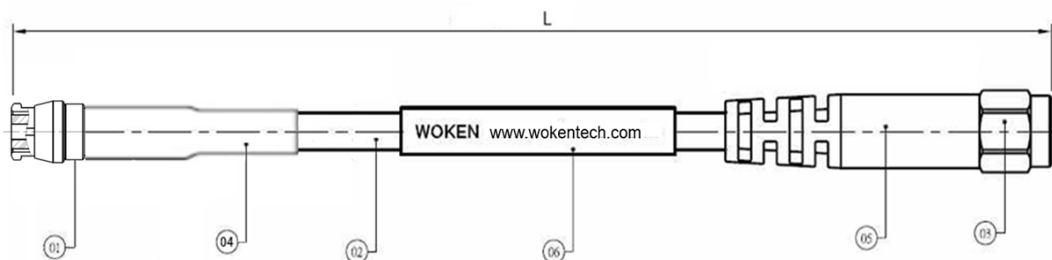
| Part                  | Material               | Plated |
|-----------------------|------------------------|--------|
| 1.SMP Connector       |                        |        |
| Body                  | Brass/Beryllium Copper | Gold   |
| Center Pin            | Beryllium Copper       | Gold   |
| Insulator             | Teflon                 |        |
| 2.Cable               |                        |        |
| SS405 Coaxial Cable   |                        | Blue   |
| 3.SMA Connector       |                        |        |
| Body                  | Brass                  | Gold   |
| Center Pin            | Brass                  | Gold   |
| Insulator             | Teflon                 |        |
| 4.Heat Shrink Tube    |                        | Black  |
| 5.Rigid Strain Relief |                        | 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            | 0.511±0.012mm SPCW              |
| Dielectric Diameter         | 1.61±0.03mm PTFE                |
| Inner Shield                | 1.80±0.03mm SPC Tape            |
| Braid                       | 2.10±0.05mm SPC<br>91% Coverage |
| Jacket                      | 2.70±0.05mm FEP                 |
| Minimum Bend Radius Static  | 6mm                             |
| Minimum Bend Radius Dynamic | 25mm                            |

## SS405 Spiral Shielding Coaxial Cable Electrical Characteristics

| Impedance                                                                           | 50 ± 2ohms     |                           |                  |
|-------------------------------------------------------------------------------------|----------------|---------------------------|------------------|
| Capacitance                                                                         | 95 pF/m (nom.) |                           |                  |
| Operating Frequency                                                                 | 18GHz          |                           |                  |
| Operating Temperature                                                               | -65~ 180℃      |                           |                  |
| Shielding Effect                                                                    | 100 dB(Min.)   |                           |                  |
| Velocity of propagation                                                             | 69.5%          |                           |                  |
| Structure                                                                           | Frequency      | Typical Attenuation(dB/m) | Power (Watts CW) |
|  | 0.4GHz         | 0.45                      | 194              |
|                                                                                     | 1GHz           | 0.70                      | 120              |
|                                                                                     | 5GHz           | 1.71                      | 53               |
|                                                                                     | 10GHz          | 2.62                      | 37               |
|                                                                                     | 18GHz          | 3.61                      | 25               |

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : 0.06 x √ 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