



# 00100N1F5N1XXX

## Cable Assembly

### 6GHz N(M)-N(M) for SS402 Cable Assembly

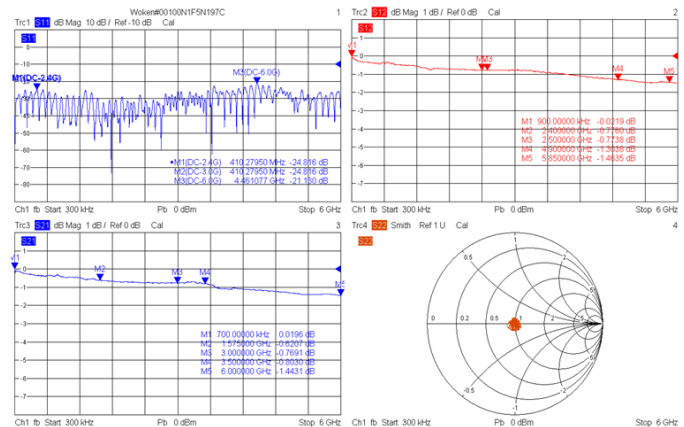
#### Features

- High Repeatability
- Low VSWR



#### Test Report

100cm:



#### Electrical Specifications

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

#### Material

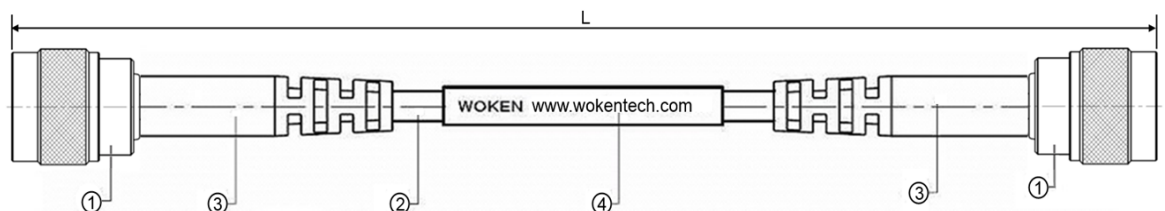
| Part                  | Material | Plated |
|-----------------------|----------|--------|
| 1.N Connector         |          |        |
| Body                  | Brass    | Nickel |
| Center Pin            | Brass    | Gold   |
| Insulator             | Teflon   |        |
| 2.Cable               |          |        |
| SS402 Coaxial Cable   |          | Blue   |
| 3.Rigid Strain Relief |          | Black  |
| 4.Heat Shrink         |          | 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      |





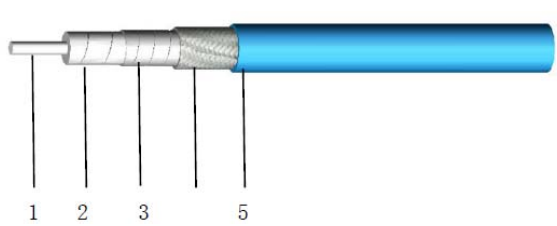
Wake up your further dream.



### 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 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