



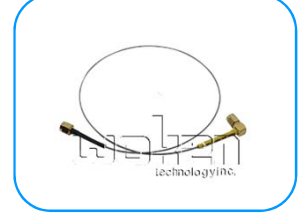
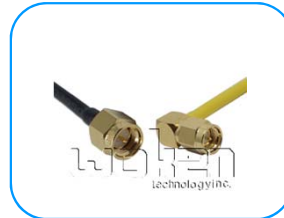
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## Cable Assembly

6GHz SMA(M)–SMA(M)R/A for  
Φ1.13mm Cable Assembly

### Features

- ✓ High Repeatability
- ✓ Low VSWR



### Electrical Specifications

|              |                      |
|--------------|----------------------|
| Frequency    | DC-6GHz              |
| VSWR         | 1.5:1(Max.)          |
| Impedance    | 50Ohm                |
| Connection 1 | SMA Male             |
| Connection 2 | SMA Male Right Angle |

### Material

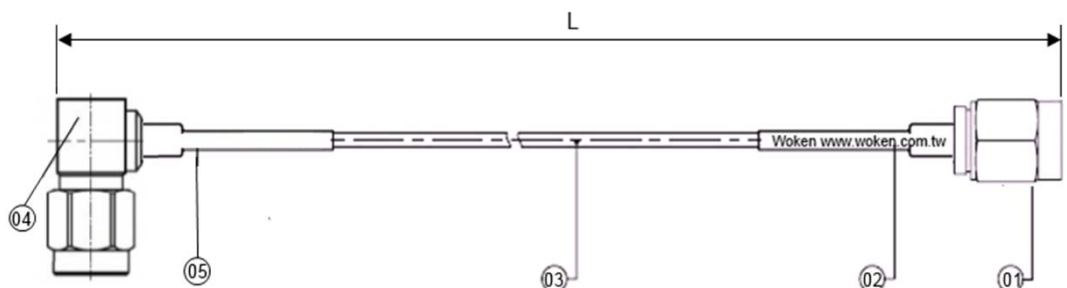
| Part                       | Material | Plated |
|----------------------------|----------|--------|
| 1.SMA Connector            |          |        |
| Body                       | Brass    | Gold   |
| Center Pin                 | Brass    | Gold   |
| Insulator                  | Teflon   |        |
| 2.Heat Shrink Tube         |          | Yellow |
| 3.Cable                    |          |        |
| Φ1.13mm Mini Coaxial Cable |          | Gray   |
| 4.SMA Connector            |          |        |
| Body                       | Brass    | Gold   |
| Center Pin                 | Brass    | Gold   |
| Insulator                  | Teflon   |        |
| 5.Heat Shrink Tube         |          | Black  |

### 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      |





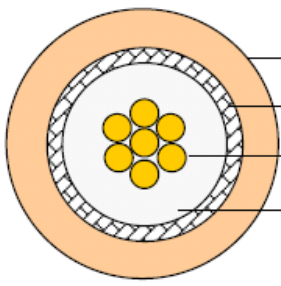
Wake up your further dream.



## φ 1.13mm Mini Coaxial Cable Physical Characteristics

|                     |                   |                                 |
|---------------------|-------------------|---------------------------------|
| Center Conductor    | Construction Size | 0.08±0.003mm                    |
|                     | Standard Diameter | 0.24mm Silver Coated Copper     |
| Insulation          | Average Thickness | 0.22mm                          |
|                     | Diameter          | 0.68±0.02mm FEP                 |
| Braid Shield        | Construction      | 16/4/0.050 ±0.003 mm            |
|                     | Coverage          | 90%                             |
|                     | Diameter          | 0.9±0.02mm Tinned-Coated Copper |
| Jacket              | Average Thickness | 0.13mm                          |
|                     | Overall Diameter  | 1.13±0.05mm FEP(Gray)           |
| Min. Bending Radius |                   | 6.8mm                           |

## φ 1.13mm Mini Coaxial Cable Electrical Characteristics

|                                                                                                                                                                    |                                  |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----|
| Impedance                                                                                                                                                          | 50 ± 3ohms                       |     |
| Operating Temperature                                                                                                                                              | -60~+200°C                       |     |
| Capacitance                                                                                                                                                        | 96±3pF/m                         |     |
| Conductor Resistance                                                                                                                                               | 545 ohms/KM at 20°C (max.)       |     |
| Operating Frequency                                                                                                                                                | 6GHz                             |     |
| Velocity of propagation                                                                                                                                            | 69%                              |     |
| <div>  <div> Jacket<br/>Braid Shield<br/>Conductor<br/>Insulation </div> </div> | Maximum Attenuation(dB/M) @ 2GHz | 2.8 |
|                                                                                                                                                                    | 2.4GHz                           | 3.1 |
|                                                                                                                                                                    | 3GHz                             | 3.5 |
|                                                                                                                                                                    | 4GHz                             | 4.0 |
|                                                                                                                                                                    | 5GHz                             | 4.6 |
|                                                                                                                                                                    | 6GHz                             | 5.1 |

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 ) (I-PEX ,Murata Connector 不適用此公式)
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