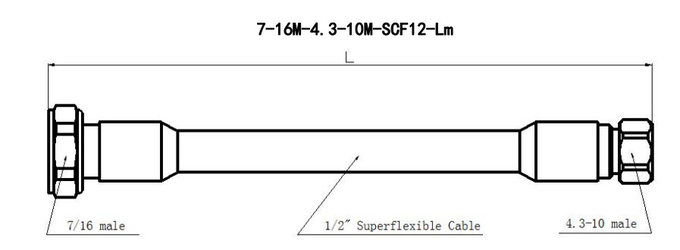
|  |  |  |  |
| --- | --- | --- | --- |
| **Product Name:** | 1/2" Superflex Jumper Cable With 4.3-10 Male To 7/16 Din Male Connector | **Length:** | 6-9 m |
| **Compatible:** | Huawei | **Connector:** | 4.3-10 Male To 7/16 Din Male |
| **Application:** | 4g Wifi Base Station | **Cable:** | 1/2 Inch Super Flex Jumper Cable |

**1/2" Superflex Jumper Cable With 4.3-10 Male To 7/16 Din Male Connector**



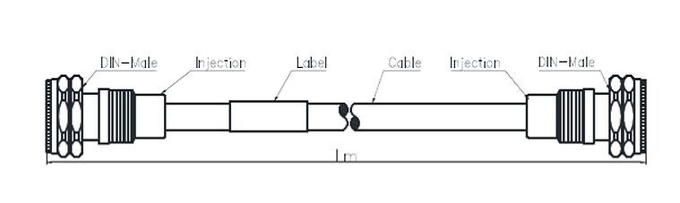
**Specification:**

|  |  |
| --- | --- |
| Electrical Specification | |
| Impedance | 50Ω |
| Frequency range (for connector interface) | DC~18GHz |
| electric withstanding voltage (at sea level) | ≥750-1500V,50Hz (depending on cable) |
| Working voltage (at sea level) | ≥250-500V,50Hz (sea level) / ≥65-125V,50Hz (Height 21000M) |
| V.S.W.R. | customized |
| Insulation Resistance | ≥5000mΩ |
| Contact resistance | Inner conductor: ≤1.0mΩ |
| Outer conductor: ≤0.2mΩ |
| RF leakage(2-3GHZ) | Flexible: ≥60dB |
|  |
| Semi-rigid cable: ≥100dB |

|  |  |
| --- | --- |
| **Mechanical Specification** | |
| Coupling nut torque | 0.8Nm--1.1Nm / 7.1 in.lbs--9.7 in.lbs |
|
| Coupling nut retention force | ≥270N / 60.7 lbs |
| Contact captivation axial | ≥27N / 6.1 lbs |
| Durability (matings) | ≤500 |
| Temperature range | -65°C to +165°C |

|  |  |
| --- | --- |
| **MATERIAL DATA** | |
| Bodies, outer contacts | Beryllium copper--Au plating |
| Stainless steel--Passivation |
| Brass--Au plated / ternary alloy plating |
| Phosphor bronze --Au plating |
| Pin contacts | Brass/Beryllium copper--Au plating |
| Socket contacts | Beryllium copper / Phosphor bronze--Au plating |
| Crimp ferrules | Brass--Au plating |
| Insulator | PTFE |
| Gaskets | Silicone rubber |

**1/2" Super Flex RF Jumper Cable With 7/16 DIN Male To DIN Male For Base Station**



**pecification:**

**1 RF coaxial connector:**

1.1 Material and Plating

Inner conductor: brass, plated with silver, Plating thickness: ≥0.003mm

Insulation dielectric: PTFE

Outer conductor: brass, plated with ternary alloy, Plating thickness≥0.002mm

1.2 Electrical & Mechanic Feature

Characteristics impedance: 50Ω

Frequency range: DC-3GHz

Dielectric strength: ≥2500V

Contact resistance: inner conductor≤1.0mΩ, Outer conductor≤0.4mΩ

Insulator resistance: ≥5000MΩ (500V DC)

VSWR: ≤1.15 (DC-3GHz)

PIM: ≤-155dBc@2x43dBm

Connector durability: ≥500 cycles

**2 RF coaxial cable: 1/2” Super Flexible RF Cable**

2.1 Material

Inner conductor: aluminum wire covered with copper (φ3.60mm)

Insulation dielectric: polyethylene foam (φ8.90mm)

Outer conductor: corrugated copper tube (φ12.20mm)

Cable jacket: PE (φ13.60mm)

2.2 Feature

Characteristics impedance: 50Ω

Standard capacitor: 80pF/m

Transmission rate: 83%

Min. single bending radius: 50mm

Tensile strength: 700N

Insulation resistance: ≥5000MΩ

Shielding attenuation: ≥120dB

VSWR: ≤1.15 (0.01-3GHz)

**3 Jumper cable**

3.1 Cable Component Size:

Total length of cable assemblies:

1000mm±10

2000mm±20

3000mm±25

5000mm±40

3.2 Electrical feature

Frequency Band: 800-2700MHz

Characteristics Impedance: 50Ω±2

Operating Voltage: 1500V

VSWR: ≤1.11 (0.8-2.2GHz), ≤1.18 (2.2-2.7GHz)

Insulation voltage: ≥2500V

Insulation resistance: ≥5000MΩ (500V DC)

PIM3: ≤-150dBc@2x20W

 Insertion Loss:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Frequency | 1m | 2m | 3m | 5m |
| 890-960MHz | ≤0.15dB | ≤0.26dB | ≤0.36dB | ≤0.54dB |
| 1710-1880MHz | ≤0.20dB | ≤0.36dB | ≤0.52dB | ≤0.80dB |
| 1920-2200MHz | ≤0.26dB | ≤0.42dB | ≤0.58dB | ≤0.92dB |
| 2500-2690MHz | ≤0.30dB | ≤0.50dB | ≤0.70dB | ≤1.02dB |
| 5800-5900MHz | ≤0.32dB | ≤0.64dB | ≤0.96dB | ≤1.6dB |

Mechanical Shock Test Method: MIL-STD-202, Method 213, Test Condition I

Moisture Resistance Test Method: MIL-STD-202F, Method 106F

Thermal Shock Test Method: MIL-STD-202F, Method 107G, Test Condition A-1

3.3. Environment feature

Waterproof: IP68

Operation temperature range: -40°C to +85°C

Storage temperature range: -70°C to +85°C

- 7/16 DIN Male Connectors for 1/2" FSJ4-50B

|  |  |  |
| --- | --- | --- |
| **7/16 DIN Straight Male Connector for 1/2'' Flexible RF Cable Connector RF** | | |
| Inner Conductor Pin | | Brass / Silver Plating |
| Inner Conductor Socket | | Tin Bronze / Silver Plating |
| Insulator | | TPX |
| Body & Outer Conductor | | Brass / Trimetal Plating |
| Gasket | | Silicon Rubber |
| Characteristics Impedance | | 50 Ohm |
| Frequency Range | | DC~7.5GHz |
| Insulation Resistance | | ≥10000MΩ |
| Dielectric Withstanding Voltage | | 4000V rms(AC) |
| Center contact resistance | | ≤0.40 mΩ |
| Outer contact resistance | | ≤0.20 mΩ |
| Insertion Loss | @3 GHz | ≤0.10dB |
| VSWR | @0.8-1.0 GHz | ≤1.10 |
|  | @1.7-2.5 GHz | ≤1.10 |
|  | @2.5-3.0 GHz | ≤1.15 |
| PIM3 (2\*20W) | | ≤-155dBc |
| Durability (matings) | | ≥500 cycles |
| Mechanical Shock Test Method | | MIL-STD-202, Method 213, Test Condition D |
| Vibration Test Method | | MIL-STD-202, Meth. 204, Cond. A |
| Temperature Range | | -40°C to +85°C |
| RoHS | | Compliant |
| Sealing Class | | IP68 |

4.3-10 Male Connector - 1/2" Flexible Cable



|  |  |  |
| --- | --- | --- |
| **Material and Plating** | |  |
| Center contact | | Brass / Silver Plating |
| Insulator | | PTFE |
| Body & Outer Conductor | | Brass / Trimetal Plating |
| Gasket | | Silicon Rubber |
| **Electrical Characteristics** | |  |
| Characteristics Impedance | | 50 Ohm |
| Frequency Range | | DC~3 GHz |
| Insulation Resistance | ≥5000MΩ | |
| Dielectric Strength | | ≥2500 V rms |
| Center contact resistance | | ≤1.0 mΩ |
| Outer contact resistance | | ≤1.0 mΩ |
| Insertion Loss | | ≤0.1dB@3GHz |
| VSWR | | ≤1.1@-3.0GHz |
| Temperature range | | -40~85℃ |
| PIM  dBc(2×20W) | | ≤-155 dBc(2×20W) |
| Waterproof | | IP67 |