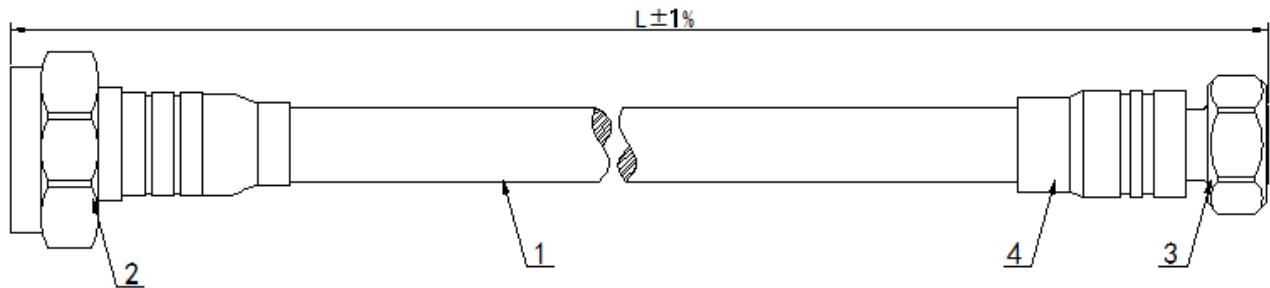




1/2 Super flex Jumper, Black PE

7/16 Male – 4.3-10 Male



1 Product Structure

| | Designation | Material |
|---|---------------|---|
| 1 | Cable | 1/2 Super flex Corrugated Copper Tube Coaxial Cable, Black PE |
| 2 | Connector | 7/16 Male for 1/2 Super flex Coaxial Cable |
| 3 | Connector | 4.3-10 Male for 1/2 Super flex Coaxial Cable |
| 4 | Molding | Hot Thermoplastic Elastomer (TPE) Molding, Black |
| 5 | Marking label | Plastic Label, Waterproof |

2 Product List

| L= | Designation |
|-------|---------------------------------------|
| 3.0m | Jumper, 3.0M, 1/2S, 7/16(M)-4.3-10(M) |
| 4.0 m | Jumper, 4.0M, 1/2S, 7/16(M)-4.3-10(M) |
| 5.0 m | Jumper, 5.0M, 1/2S, 7/16(M)-4.3-10(M) |
| 6.0 m | Jumper,6.0M, 1/2S, 7/16(M)-4.3-10(M) |

3 Cable Requirements

| | |
|-----------------|--------------------------------|
| Inner Conductor | Copper Clad Aluminum Wire |
| Insulation | Foamed Polyethylene |
| Outer Conductor | Helical Corrugated Copper Tube |
| Jacket | Polyethylene (PE), Black |

4 Connector Requirements

| | |
|---------------------------------|----------------------------------|
| Interface, Body Style | 4.3-10 Male, 7/16 Male, Straight |
| Contact Attachment Inner, Outer | Solder, Solder |
| Center Conductor | Brass with Silver Plated |
| Insulation | PTFE |
| Outer Conductor | Brass with Tri-metal Plated |
| Nut | Brass with Nickel Plated |
| Connection torque | 5NM(4.3-10),25NM(7/16) |
| Torque | 2.0NM |
| Tensile force | 200N |

5 Electrical Specifications

| | |
|--------------------------|--------------|
| Impedance | 50 Ohm |
| Operating Frequency Band | 0 – 3800 MHz |
| Return Loss (VSWR) | Typical |



0 – 3800 MHz

≥ 21.6dB (1.18)

300 – 2200 MHz

≥ 26.4 dB (1.10)

2200 – 2700 MHz

≥ 23.1 dB (1.13)

2700 – 3800 MHz

≥ 21.6 dB (1.18)

3rd Order Intermodulation (900MHz@2x43 dBm)

≤ -160 dBc (-117dBm)

6 Insertion Loss

| L(M) | Insertion loss | | |
|------|----------------|--------------|--------------|
| | 300-2200MHz | 2200-2700MHz | 2700-3800MHz |
| 3.0 | ≤0.62 dB | ≤0.75 dB | ≤0.95 dB |
| 4.0 | ≤0.80 dB | ≤0.96 dB | ≤1.24 dB |
| 5.0 | ≤0.97 dB | ≤1.18 dB | ≤1.50 dB |
| 6.0 | ≤1.14 dB | ≤1.39 dB | ≤1.76 dB |

7 Environment and Mechanical Specifications

| | |
|---------------------------------|--|
| Operating Temperature | -40°C to +85°C |
| Storage Temperature | -40°C to +85°C |
| Interface Durability | 500 Cycles |
| Immersion Depth | 1 m |
| Immersion Test Method | IEC 60529:2001, IP67 |
| Corrosion Test Method | MIL-STD-202G, Method 101E, Test Condition A, 96 h |
| Moisture Resistance Test Method | MIL-STD-202G, Method 106G |
| Thermal Shock Test Method | MIL-STD-202G, Method 107G, Test Condition A-1, 25 Cycles |
| Vibration Test Method | MIL-STD-202G, Method 204D, Test Condition B, 15 g |
| Mechanical Shock Test Method | MIL-STD-202G, Method 213B, Test Condition C, 100 gs |

8 Marking and Package Requirements

According to the Packaging Specifications

9 Banned and Restricted Substances

RoHS 2011/65/EU Compliant

10 Document Revision Information

| Revision | Description |
|----------|----------------|
| A0 | First revision |