



1/2" Super-Flexible Jumper

I . Specification

1. Product Name: 1/2" Super Flexible RF Jumper Cable
2. Model Number: N-M/N-M-1/2"S-LM (LM: Length Meter)
3. Connector Type: N-Male to N-Male
4. Compliance Standards: IEC60169, VG95250, EN122190, GJB681-89, GJB360A-96
5. Main Parameter:
 - 5.1 RF coaxial connector:
 - 5.1.1 Material and Plating
 - Inner conductor: brass, plated with silver, Plating thickness: $\geq 0.003\text{mm}$
 - Insulation dielectric: PTFE
 - Outer conductor: brass, plated with ternary alloy, Plating thickness $\geq 0.002\text{mm}$
 - 5.1.2 Electrical & Mechanic Feature
 - Characteristics impedance: 50Ω
 - Frequency range: DC-3GHz
 - Dielectric strength: $\geq 2500\text{V}$
 - Contact resistance: inner conductor $\leq 1.0\text{m}\Omega$, Outer conductor $\leq 0.4\text{m}\Omega$
 - Insulator resistance: $\geq 5000\text{M}\Omega$ (500V DC)
 - VSWR: ≤ 1.15 (DC-3GHz)
 - PIM: $\leq -155\text{dBc}@2\times 43\text{dBm}$
 - Connector durability: ≥ 500 cycles
 - 5.2 RF coaxial cable: 1/2" Super Flexible RF Cable
 - 5.2.1 Material
 - Inner conductor: aluminum wire covered with copper ($\phi 3.60\text{mm}$)
 - Insulation dielectric: polyethylene foam ($\phi 8.90\text{mm}$)
 - Outer conductor: corrugated copper tube ($\phi 12.20\text{mm}$)
 - Cable jacket: PE ($\phi 13.60\text{mm}$)
 - 5.2.2 Feature
 - Characteristics impedance: 50Ω
 - Standard capacitor: 80pF/m
 - Transmission rate: 83%
 - Min. single bending radius: 50mm
 - Tensile strength: 700N
 - Insulation resistance: $\geq 5000\text{M}\Omega$
 - Shielding attenuation: $\geq 120\text{dB}$
 - VSWR: ≤ 1.15 (0.01-3GHz)
 - 5.3 Jumper cable
 - 5.3.1 Cable Component Size:
 - Total length of cable assemblies:
 - 1000mm ± 10
 - 2000mm ± 20
 - 3000mm ± 25
 - 5000mm ± 40

5.3.2 Electrical feature

Frequency Band: 800-2700MHz

Characteristics Impedance: $50\Omega \pm 2$

Operating Voltage: 1500V

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

Insulation voltage: $\geq 2500V$

Insulation resistance: $\geq 5000M\Omega$ (500V DC)

PIM3: $\leq -155dBc@2x20W$

Insertion Loss:

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

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

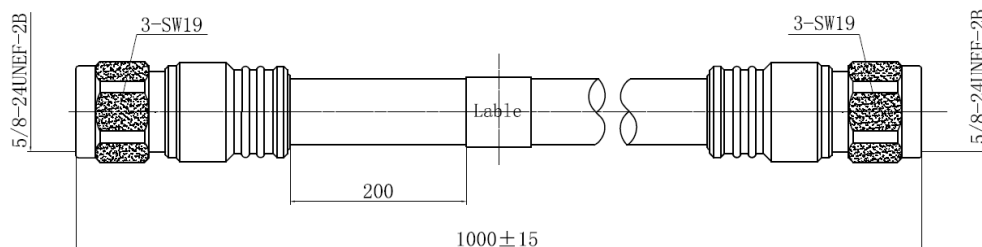
5.3.3. Environment feature

Waterproof: IP68

Operation temperature range: $-40^{\circ}C$ to $+85^{\circ}C$

Storage temperature range: $-70^{\circ}C$ to $+85^{\circ}C$

II . Illustration





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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

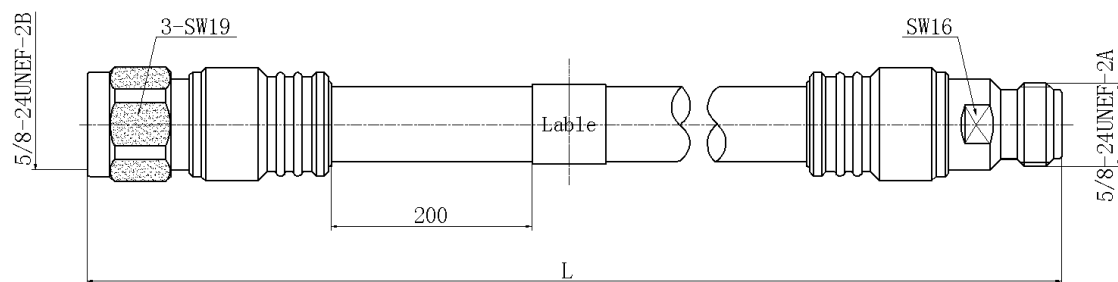
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II . Illustration





1/2" Super-Flexible Jumper

I . Specification

1. Product Name: 1/2" Super Flexible RF Jumper Cable 1 meter
2. Model Number: N-M/N-M-1/2"S-1M
3. Connector Type: N-Male to N-Male
4. Compliance Standards: IEC60169, VG95250, EN122190, GJB681-89, GJB360A-96
5. Main Parameter:

5.1 RF coaxial connector:

5.1.1 Material and Plating

Inner conductor: brass, plated with silver, Plating thickness: $\geq 0.003\text{mm}$

Insulation dielectric: PTFE

Outer conductor: brass, plated with ternary alloy, Plating thickness $\geq 0.002\text{mm}$

5.1.2 Electrical & Mechanic Feature

Characteristics impedance: 50Ω

Frequency range: DC-3GHz

Dielectric strength: $\geq 2500\text{V}$

Contact resistance: inner conductor $\leq 1.0\text{m}\Omega$, Outer conductor $\leq 0.4\text{m}\Omega$

Insulator resistance: $\geq 5000\text{M}\Omega$ (500V DC)

VSWR: ≤ 1.15 (DC-3GHz)

PIM: $\leq -155\text{dBc}@2\times 43\text{dBm}$

Connector durability: ≥ 500 cycles

5.2 RF coaxial cable: 1/2" Super Flexible RF Cable

5.2.1 Material

Inner conductor: aluminum wire covered with copper ($\phi 3.60\text{mm}$)

Insulation dielectric: polyethylene foam ($\phi 8.90\text{mm}$)

Outer conductor: corrugated copper tube ($\phi 12.20\text{mm}$)

Cable jacket: PE ($\phi 13.60\text{mm}$)

5.2.2 Feature

Characteristics impedance: 50Ω

Standard capacitor: 80pF/m

Transmission rate: 83%

Min. single bending radius: 50mm

Tensile strength: 700N

Insulation resistance: $\geq 5000\text{M}\Omega$

Shielding attenuation: $\geq 120\text{dB}$

VSWR: ≤ 1.15 (0.01-3GHz)

5.3 Jumper cable

5.3.1 Cable Component Size:

Total length of cable assemblies:

$1000\text{mm} \pm 10$

$2000\text{mm} \pm 20$

$3000\text{mm} \pm 25$

$5000\text{mm} \pm 40$



5.3.2 Electrical feature

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Characteristics Impedance: $50\Omega \pm 2$

Operating Voltage: 1500V

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

Insulation voltage: $\geq 2500V$

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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

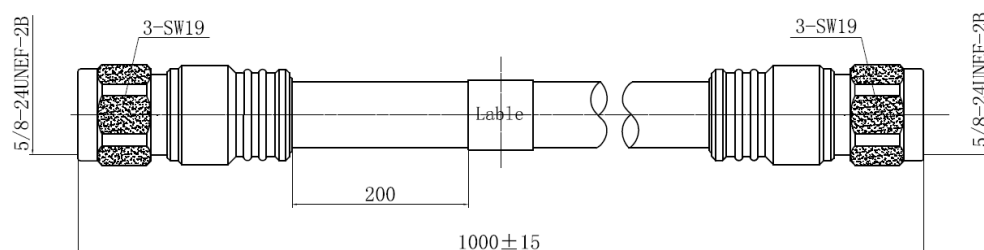
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Moisture Resistance Test Method: MIL-STD-202F, Method 106F

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

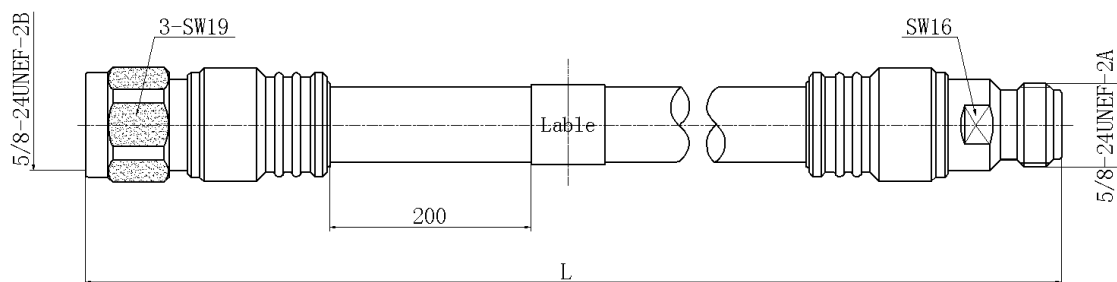
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Mechanical Shock Test Method: MIL-STD-202, Method 213, Test Condition I

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

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

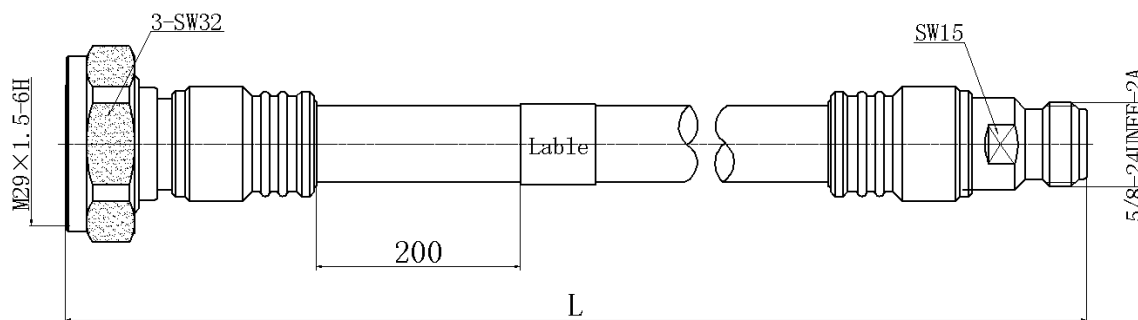
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1. Product Name: 1/2" Super Flexible RF Jumper Cable 3 meter
2. Model Number: DIN-M/DIN-M-1/2"S-3M
3. Connector Type: DIN-Male to DIN-Male
4. Compliance Standards: IEC60169, VG95250, EN122190, GJB681-89, GJB360A-96
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Moisture Resistance Test Method: MIL-STD-202F, Method 106F

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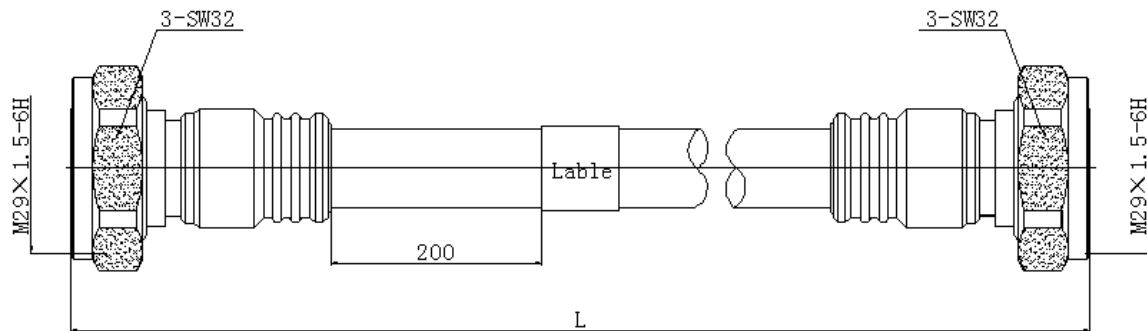
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5800-5900MHz	$\leq 0.32dB$	$\leq 0.64dB$	$\leq 0.96dB$	$\leq 1.6dB$

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

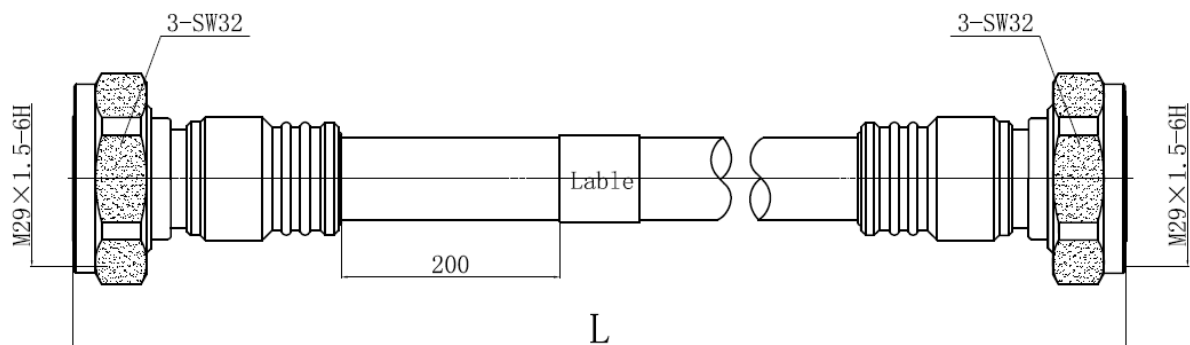
5.3.3. Environment feature

Waterproof: IP68

Operation temperature range: $-40^{\circ}C$ to $+85^{\circ}C$

Storage temperature range: $-70^{\circ}C$ to $+85^{\circ}C$

II . Illustration





1/2" Super-Flexible Jumper

I . Specification

1. Product Name: 1/2" Super Flexible RF Jumper Cable
2. Model Number: DINRA-M/DIN-M-1/2"S-LM (LM: Length Meter)
3. Connector Type: DIN-Male Right Angel to N-Male
4. Compliance Standards: IEC60169, VG95250, EN122190, GJB681-89, GJB360A-96
5. Main Parameter:
 - 5.1 RF coaxial connector:
 - 5.1.1 Material and Plating
 - Inner conductor: brass, plated with silver, plating thickness: $\geq 0.003\text{mm}$
 - Insulation dielectric: PTFE
 - Outer conductor: brass, plated with ternary alloy, Plating thickness $\geq 0.002\text{mm}$
 - 5.1.2 Electrical & Mechanic Feature
 - Characteristics impedance: 50Ω
 - Frequency range: DC-3GHz
 - Dielectric strength: $\geq 2500\text{V}$
 - Contact resistance: inner conductor $\leq 1.0\text{m}\Omega$, Outer conductor $\leq 0.4\text{m}\Omega$
 - Insulator resistance: $\geq 5000\text{M}\Omega$ (500V DC)
 - VSWR: ≤ 1.15 (DC-3GHz)
 - PIM: $\leq -155\text{dBc}@2\times 43\text{dBm}$
 - Connector durability: ≥ 500 cycles
 - 5.2 RF coaxial cable: 1/2" Super Flexible RF Cable
 - 5.2.1 Material
 - Inner conductor: aluminum wire covered with copper ($\phi 3.60\text{mm}$)
 - Insulation dielectric: polyethylene foam ($\phi 8.90\text{mm}$)
 - Outer conductor: corrugated copper tube ($\phi 12.20\text{mm}$)
 - Cable jacket: PE ($\phi 13.60\text{mm}$)
 - 5.2.2 Feature
 - Characteristics impedance: 50Ω
 - Standard capacitor: 80pF/m
 - Transmission rate: 83%
 - Min. single bending radius: 50mm
 - Tensile strength: 700N
 - Insulation resistance: $\geq 5000\text{M}\Omega$
 - Shielding attenuation: $\geq 120\text{dB}$
 - VSWR: ≤ 1.15 (0.01-3GHz)
 - 5.3 Jumper cable
 - 5.3.1 Cable Component Size:
 - Total length of cable assemblies:
 - 1000mm ± 10
 - 2000mm ± 20
 - 3000mm ± 25
 - 5000mm ± 40
 - 5.3.2 Electrical feature
 - Frequency Band: 800-2700MHz

Characteristics Impedance: $50\Omega \pm 2$

Operating Voltage: 1500V

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

Insulation voltage: $\geq 2500V$

Insulation resistance: $\geq 5000M\Omega$ (500V DC)

PIM3: $\leq -155dBc@2x20W$

Insertion Loss:

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

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

5.3.3. Environment feature

Waterproof: IP68

Operation temperature range: $-40^{\circ}C$ to $+85^{\circ}C$

Storage temperature range: $-70^{\circ}C$ to $+85^{\circ}C$

II . Illustration

