RF OPTIX PTY [LTD] HEAD OFFICE: JHB, SOUTH AFRICA
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RF COMPONENT DATASHEET

COMMUNICATION INFRASTRUCTURE SOLUTIONS

PRODUCT ID: 0211-1315

RF JUMPER [HF DINM- 4.3-10MF]

RF JUMPER CABLE COAX, 1/2", HF, LL, DIN-MALE TO 4.3-10 MALE/FEMALE, 50 OHMS

- Product Name: 1/2" RF Jumper Cable
- Connector Type: DIN-Male To 4.3-10 Male/Female
- Compliance Standards: IEC60169, VG95250, EN122190, GJB681-89, GJB360A-96

RF COAXIAL CONNECTOR:

MATERIAL & PLANTING:

- Inner Conductor: Brass, plated with silver. Plating thickness: ≥0.003mm
- Insulation Dielectric: PTFE
- Outer Conductor: Brass, plated with ternary alloy. Plating thickness: ≥0.002mm

ELECTRICAL & MECHANICAL 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 (im3): ≤-160dBc@2x43dBm
- Connector durability: ≥500 cycles

RF COAXIAL CABLE: 1/2" HF CABLE:

MATERIAL & PLANTING:

- Inner Conductor: Aluminium wire, copper coated ϕ3.60mm
- Insulation Dielectric: PTFE
- Outer Conductor: Brass, plated with ternary alloy

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 (im3): ≤-160dBc@2x43dBm

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JUMPER CABLE:

CABLE COMPONENTS SIZE:

- Length of cable assemblies: 1m – 5m

ENVIRONMENTAL FEATURES:

- Waterproof: IP68
- Operation temperature: -40℃ to +85℃
- Storage temperature range: -70℃ to +85℃

ELECTRICAL FEATURE:

- Frequency Band: 800-2700MHz
- Characteristics Impedance: DC-3GHz
- Operating Voltage: ≥2500V
- VSWR: Inner conductor ≤1.0mΩ
  Outer conductor ≤0.4mΩ
- Insulation voltage: ≥5000MΩ (500V DC)
- Insulation resistance: ≤1.15 (DC-3GHz)
- PIM3: ≤-160dBc@2x43dBm

ENVIRONMENT FEATURE

- Waterproof: IP68
- Operating temperature: -40℃ to +85℃
- Storage temperature range: 70℃ to +85℃

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