# AirCell®

## Jumper Assembly

TRILOGY Communications

## Product Specification

### 50 Ohm Jumper Assembly, 1/4" - JPF014DMDM6

| Description | Product Number |
|---|---|
| **Plenum Rated Jumper** | |
| 1/4", Low Loss, Low PIM, Plenum Rated CMP, Conforms to NFPA-262, 7/16 DIN Male to 7/16 DIN Male Connectors, 6 Ft. | JPF014DMDM6 |
| **Physical Dimensions** | |
| Center Diameter, in (mm) | 0.068 (1.7) |
| Diameter Over Dielectric, in (mm) | 0.190 (4.8) |
| Diameter Over Outer Conductor, in (mm) | 0.250 (6.3) |
| Maximum Diameter Over Jacket, in (mm) | 0.280 (7.1) |
| Center Conductor | Solid Copper |
| Outer Conductor | Corrugated Copper |
| Jacket Color | White |
| Connector A | 7/16 DIN Male |
| Connector B | 7/16 DIN Male |
| **Electrical Characteristics** | |
| Maximum Frequency, GHz | 6 |
| DC Resistance, Ohms/1,000 ft (1,000 m) | |
| Center | 3.0 (9.84) |
| Outer | 2.00 (6.56) |
| Capacitance, pF/ft (m) | 27.0 (8.2) |
| Inductance, mH/ft (m) | 0.056 (0.184) |
| VSWR max up to 3 GHz | 1.25 (19.0) |
| VSWR max up to 6 GHz | 1.35 (16.0) |
| 3rd Order IMD, dBm (dBc), typical | ≥ -117 (≥ -160) |
| DTF, Connector A, dB | -34 |
| DTF, Connector B, dB | -34 |
| Impedance, Ohms | 50 |
| Velocity of Propagation | 76% |
| **Mechanical Characteristics** | |
| Minimum Bend Radius, in (mm) | 1.25 (32) |
| Weight, lb/ft (kg/m) | 66 (78) |
| Bending Moment, ft lb (N m) | 0.8 (1) |
| Tensile Strength, lb (kg) | 150 (68.2) |
| Flat Plate Crush, lb/in (kg/mm) | 100 (1.8) |
| Recommended Install Temp., °F (°C) | -67° to 392° (-55° to 200°) |
| Recommended Storage Temp., °F (°C) | -40° to 170° (-40° to 77°) |
| Recommended Operating Temp., °F (°C) | -40° to 170° (-40° to 77°) |
| **Standard Conditions** | |
| For Attenuation: VSWR 1.0, Ambient Temperature 20°C (68°F) | |
| For Average Power: VSWR 1.0, Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), No Solar Loading | |
| **Regulatory Compliance/Certifications** | |
| RoHS 2011/65/EU Compliant | |
| TL 9000 H-V - All Cables designed and manufactured under this quality management system | |



***Flexible, Low PIM, Plenum Rated Jumper Cable Assembly***

- -160 dBc PIM Rated and Certified for Optimized Performance
- Conforms to NFPA-262, UL-444, Canadian CSA 22.2/FT6 to meet In-Building Codes
- Super flexible to accommodate tight bends and ensure easy installation
- Multiple lengths available to meet all various project needs
- Copper Outer Conductor provides excellent performance and strength

| Attenuation and Average Power | | | |
|---|---|---|---|
| Frequency, MHz | Attenuation dB/100 ft | Attenuation dB/100 m | Average Power kW |
| 450 | 3.80 | 12.47 | 1.01 |
| 700 | 4.80 | 15.75 | 0.81 |
| 850 | 5.30 | 17.39 | 0.73 |
| 1900 | 8.10 | 26.57 | 0.47 |
| 2100 | 8.60 | 28.21 | 0.45 |
| 2300 | 9.00 | 29.53 | 0.43 |
| 2400 | 9.20 | 30.18 | 0.42 |
| 4900 | 13.50 | 44.29 | 0.28 |
| 5800 | 14.80 | 48.56 | 0.26 |