

#### 50 Ohm Jumper Assembly, 1/2" - JAU012DMDM20

| Description  | Product Number             |
|--|----------------------------|
| <b>Plenum Rated Jumper</b>   |                            |
| 1/2", Super Flexible, Low Loss, Low PIM, Black Polyethylene Jacket, 7/16 DIN Male to 7/16 DIN Male Connectors, 20 Ft.      | JAU012DMDM20               |
| <b>Physical Dimensions</b>   |                            |
| Center Diameter, in (mm)   | 0.142 (3.60)               |
| Diameter Over Dielectric, in (mm)  | 0.354 (9.00)               |
| Diameter Over Outer Conductor, in (mm)   | 0.476 (12.10)              |
| Maximum Diameter Over Jacket, in (mm)  | 0.528 (13.40)              |
| Center Conductor   | Copper Clad Aluminum       |
| Outer Conductor  | Corrugated Copper          |
| Jacket Color   | Black                      |
| Connector A  | 7/16 DIN Male              |
| Connector B  | 7/16 DIN Male              |
| <b>Electrical Characteristics</b>  |                            |
| Maximum Frequency, GHz   | 3                          |
| DC Resistance, Ohms/1,000 ft (1,000 m)   |                            |
| Center   | 0.88 (2.90)                |
| Outer  | 1.31 (4.30)                |
| Capacitance, pF/ft (m)   | 25.0 (82)                  |
| Inductance, mH/ft (m)  | 0.063 (0.207)              |
| VSWR max up to 3 GHz (RL)  | 1.20 (26)                  |
| 3rd Order IMD, dBm (dBc), typical  | ≥ -115 (≥ -158)            |
| DTF, Connector A, dB   | -30                        |
| DTF, Connector B, dB   | -30                        |
| Impedance, Ohms  | 50                         |
| Velocity of Propagation  | 83%                        |
| <b>Mechanical Characteristics</b>  |                            |
| Minimum Bend Radius, in (mm)   | 1.97 (50)                  |
| Weight, lb/ft (kg/m)   | 0.11 (0.17)                |
| Tensile Strength, lb (kg)  | 154.32 (70)                |
| Recommended Install Temp., °F (°C)   | -4° to 140° (-20° to 60°)  |
| Recommended Storage Temp., °F (°C)   | -67° to 185° (-55° to 85°) |
| Recommended Operating Temp., °F (°C)   | -40° to 185° (-40° to 85°) |
| <b>Standard Conditions</b>   |                            |
| 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 |                            |
| <b>Regulatory Compliance/Certifications</b>  |                            |
| 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

- -158 dBc PIM Rated and Certified for Optimized Performance
- 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 |          | Average Power kW |
|                               | dB/100 ft   | dB/100 m |                  |
| 450                           | 2.18        | 7.15     | 1.38             |
| 800                           | 2.94        | 9.63     | 1.05             |
| 900                           | 3.15        | 10.34    | 0.95             |
| 1800                          | 4.60        | 15.09    | 0.65             |
| 2000                          | 4.88        | 16.00    | 0.61             |
| 2400                          | 5.40        | 17.71    | 0.55             |
| 3000                          | 6.13        | 20.12    | 0.49             |