

50 Ohm Jumper Assembly, 1/4" - JAU014DFDF3

Description	Product Number
Plenum Rated Jumper	
1/4", Low Loss, Low PIM, UV Rated, Black Polyethylene Jacket, 7/16 DIN Female to 7/16 DIN Female Connectors, 3 Ft.	JAU014DFDF3
Physical Dimensions	
Center Diameter, in (mm)	0.074 (1.9)
Diameter Over Dielectric, in (mm)	0.185 (4.7)
Diameter Over Outer Conductor, in (mm)	0.250 (6.35)
Maximum Diameter Over Jacket, in (mm)	0.295 (7.5)
Center Conductor	Copper Clad Aluminum
Outer Conductor	Corrugated Copper
Jacket Color	Black
Connector A	7/16 DIN Female
Connector B	7/16 DIN Female
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 (80)
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	≥ -112 (≥ -155)
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 (60)
Flat Plate Crush, lb/in (kg/mm)	100 (1.8)
Recommended Install Temp., °F (°C)	-40° to 170° (-40° to 77°)
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, Outdoor Rated Jumper Cable Assembly

- -155 dBc PIM Rated and Certified for Optimized Performance
- UV Rated Jacket for Outdoor Use
- 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

Frequency, MHz	Attenuation		Average Power kW
	dB/100 ft	dB/100 m	
450	3.80	12.47	0.57
700	4.80	15.75	0.48
850	5.30	17.39	0.41
1900	8.10	26.57	0.27
2100	8.60	28.21	0.26
2300	9.00	29.53	0.24
2400	9.20	30.18	0.23
4900	13.50	44.29	0.08
5800	14.80	48.56	0.02