AirCell®

Jumper Assembly

TRILOGY® Communications

Product Specification

50 Ohm Jumper Assembly, 1/4" - JPF014NMSM4

Description	Product Number
Plenum Rated Jumper	
1/4", Low Loss, Low PIM, Plenum Rated CMP, Conforms to NFPA-262, N Male to SMA Male Connectors, 4 Ft.	JPF014NMSM4
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	Blue
Connector A	N Male
Connector B	SMA 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	≥ -107 (≥ -150)
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	

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Flexible, Low PIM, Plenum Rated Jumper Cable Assembly

- -150 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	dB/100 m	Average Power kW
450	3.8	12.5	1.01
700	4.8	15.8	0.81
850	5.3	17.4	0.73
1900	8.1	26.6	0.47
2100	8.6	21.1	0.45
2300	9	29.5	0.43
2400	9.2	30.1	0.42
4900	13.5	44.4	0.28
5800	14.8	48.7	0.26