PRODUCT DATASHEET

1/4" Superflex Coax Jumpers

Premium Jumper Assembly

1/4" Superflexible Coaxial Cable

RFS Technologies' coaxial jumpers are engineered to deliver superior electrical performance and long-term reliability in demanding wireless infrastructure environments.Each jumper is built using **premium-grade cables and connectors**, ensuring consistent performance and durability in the field. The **manufacturing process is tightly controlled and optimized** to achieve outstanding **VSWR and PIM performance**, meeting or exceeding industry standards.RFS Technologies offers a **wide variety of jumper configurations**—including different cable types, connector interfaces, and lengths—to meet diverse **application and site requirements**.



43M43MS14-0100FFP for illustration

FEATURES / BENEFITS

- **Premium cable and connector components**
  Ensures superior signal integrity and long-term reliability, minimizing signal loss and degradation over time.
- **Precision manufacturing process optimized for VSWR and PIM**
  Guarantees consistent, high-quality RF performance and reduced intermodulation interference, improving overall network efficiency.
- **Wide range of configurations available**
  Allows flexibility to match site-specific requirements, simplifying installation and minimizing the need for adapters or field modifications.
- **Robust mechanical design and factory testing**
  Ensures durability in harsh environmental conditions and reliable operation throughout the product's service.

Technical features

STRUCTURE		
Cable Type		1/4" Superflexible Foam Coaxial
Jumper Type		Factory-Fit Premium (FFP)
Connector A		4.3-10 Male, 2.2-5, NEX10, N-type, 7/16 DIN, QMA, SMA Male or Female, Straight or Right Angle, with or without weatherproof boot
Connector B		4.3-10 Male, 2.2-5, NEX10, N-type, 7/16 DIN, QMA, SMA Male or Female, Straight or Right Angle, with or without weatherproof boot
Jacket		Black Polyethylene, Halogen-free
MECHANICAL SPECIFICATIONS		
Minimum Bend Radius	mm (in)	25 (0.98)
TESTING AND ENVIRONMENTAL		
Sealing class		IP68
TEMPERATURE SPECIFICATIONS		
Installation Temperature	°C (°F)	-40 to 60 (-40 to 140)
Operation Temperature	°C (°F)	-50 to 85 (-58 to 185)
Storage Temperature	°C (°F)	-70 to 85 (-94 to 185)
ELECTRICAL SPECIFICATIONS		
Intermodulation, 3rd Order	dBc	≤ -155 static & -155 dynamic (-150 / -150 for jumpers with SMA and QMA connectors)
Peak Power Rating	kW	5.5
RF Peak Voltage	Volts	740

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

JUMPER RETURN LOSS (VSWR), 0-30FT LENGTH

Frequency [MHz]	Straight / Straight [Return Loss dB] (QMA&SMA)	Right Angle / Right Angle or Straight / Right Angle [Return Loss dB] (QMA&SMA)
0 - 1000	>28.3	>28.3
>1000-1700	>26.4	>24.4
>1700-2200	>24.3 (22.1)	>19.1 (18.2)
>2200-2700	>23.1 (18.2)	>19.1 (18.2)
>2700-3800	>19.1 (18.2)	>17.0 (16.0)
>3800-5000	>19.1 (18.2)	>17.0 (16.0)
>5000-6000	>16.5 (16.0)	>15.0 (1.43)

JUMPER RETURN LOSS (VSWR), 31-60FT LENGTH

Frequency [MHz]	Straight / Straight [Return Loss dB] (QMA&SMA)	Right Angle / Right Angle or Straight / Right Angle [Return Loss dB] (QMA&SMA)
0 - 1000	>28.3	>28.3
>1000-1700	>24.3 (22.1)	>19.1 (18.2)
>1700-2200	>24.3 (22.1)	>19.1 (18.2)
>2200-2700	>23.1 (18.2)	>19.1 (18.2)
>2700-3800	>19.1 (18.2)	>16.0 (15.0)
>3800-5000	>18.2 (17.0)	>15.0 (14.0)
>5000-6000	>16.5 (16.0)	>15.0 (1.43)

External Document Links
Cable Specifications SCF14-50J
Handling instruction

Notes

Jumper Model Nomenclature



Connector A & B		Cable Type		Jacket Type		Cable Length		Performance Type	
22M	2.2-5 Male	I12	1/2" Low Loss Air Coax	Blank	PE	010	1 ft	FFP	Factory-Fit Premium
22F	2.2-5 Female	L38	3/8" Low Loss Foam Coax	F	Flame Retardant	020	2ft		
43M	4.3-10 Male	L12	1/2" Low Loss Foam Coax	P	Plenum	030	3 ft		

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43F	4.3-10 Female	S14	1/4" Superflexible Foam Coax	0100	1 meter
43MR	4.3-10 Male Right Angle	S38	3/8" Superflexible Foam Coax	0200	2 meter
7M	7/16 DIN Male	S12	1/2" Superflexible Foam Coax	0250	2.5 meter
7F	7/16 DIN Female			3 digits	feet length
7MR	7/16 DIN Male Right Angle			4 digits	meter length
NM	N-type Male				
NF	N-type Female				
NMR	N-type Male Right Angle				
NXM	NEX10 Male				
NXF	NEX10 Female				
43MB	4.3-10 Male with Weatherboot				
7MB	7/16 DIN Male with Weatherboot				
NMB	N-type Male with Weatherboot				
NXMB	NEX10 Male with Weatherboot				

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