

**JUMPER-S12F-FFF**

CELLFLEX® Factory-Fit Jumper Assembly, 1/2" Superflexible Foam, with flame retardant jacket

Radio Frequency Systems' CELLFLEX® Factory-Fit Jumpers feature specially designed connectors which are soldered-on in a strictly controlled industrial process to ensure industry leading performance for today's high-performance wireless systems. The connector design and manufacturing process has been optimized to produce premium VSWR and IM levels. Injection molded boots provide reliable and repeatable additional sealing level and strain relief. Our facilities produce and stock all popular lengths as required by the industry, and can deliver custom lengths with premium VSWR and IM levels on request.

**FEATURES / BENEFITS**

- **Stable premium VSWR, outstanding and consistent intermodulation performance - 4.3-10 side not relying on coupling torque**

Improves network performance, reduces the number of dropped calls and avoids revenue loss.

- **Waterproof to IP 68**

No downtime risk, secures revenue.

- **Smaller connector footprint for 4.3-10**

Enables tighter spacing of connections for antennas and RRHs.

- **Available with standard ""J"" or flame retardant ""JFN"" jacket types**

Usable in all applications.

- **Compliant to RoHS (EU) and CRoHS (China)**

Usable on a global basis.



7M7FS12F-0400FFF for EXAMPLE

**Technical features****STRUCTURE**

Cable Type		1/2" Superflexible Foam
Jumper Type		Factory-Fit (Premium)
Dielectric		Foam Polyethylene
Gasket		Silicone rubber
Jacket		JFN: halogen free, non corrosive, flame retardant, low smoke, polyolefin, Test methods for fire behaviour of cable ;, IEC 60754-1-2 halogen free, non corrosive, IEC 61034 low smoke emission, IEC 60332-1 flame retardant

**MECHANICAL SPECIFICATIONS**

Minimum Bend Radius	mm (in)	32 (1.25)
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**TESTING AND ENVIRONMENTAL**

Sealing class		IP68
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**TEMPERATURE SPECIFICATIONS**

Installation Temperature	°C (°F)	-25 to 60 (-13 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	≤ -159 static & dynamic (-161 typical)
Peak Power Rating	kW	8.1
RF Peak Voltage	Volts	900

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

Frequency [MHz]	Straight / Straight [dB] (VSWR)	Right Angle / Right Angle [dB] (VSWR)
0 - 1000	>28.3 ( $\leq$ 1.08)	>28.3 ( $\leq$ 1.08)
>1000-1700	>28.3 ( $\leq$ 1.08)	>26.4 ( $\leq$ 1.10)
>1700-2200	>28.0 ( $\leq$ 1.08)	>26.4 ( $\leq$ 1.10)
>2200-2700	>26.4 ( $\leq$ 1.10)	>24.9 ( $\leq$ 1.12)
>2700-3800	>23.1 ( $\leq$ 1.15)	>20.8 ( $\leq$ 1.20)
>3800-5000	>20.8 ( $\leq$ 1.20)	>19.1 ( $\leq$ 1.25)
>5000-6000	>17.7 ( $\leq$ 1.30)	>17.7 ( $\leq$ 1.30)

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

Frequency [MHz]	Straight / Straight [dB] (VSWR)	Right Angle / Right Angle [dB] (VSWR)
0 - 1000	>28.3 ( $\leq$ 1.08)	>28.3 ( $\leq$ 1.08)
>1000-1700	>26.4 ( $\leq$ 1.10)	>24.0 ( $\leq$ 1.14)
>1700-2200	>26.4 ( $\leq$ 1.10)	>24.0 ( $\leq$ 1.14)
>2200-2700	>24.9 ( $\leq$ 1.12)	>24.0 ( $\leq$ 1.14)
>2700-3800	>23.1 ( $\leq$ 1.15)	>19.1 ( $\leq$ 1.25)
>3800-5000	>19.1 ( $\leq$ 1.25)	>18.2 ( $\leq$ 1.28)
>5000-6000	>17.7 ( $\leq$ 1.30)	>16.0 ( $\leq$ 1.38)

**COMBINATIONS**

Model Name	Connector 1	Connector 2
7M7MS12F-XXXXFFF	7-16 Male	7-16 Male
7M7FS12F-XXXXFFF	7-16 Male	7-16 Female
7M7MRS12F-XXXXFFF	7-16 Male	7-16 Male Right Angle
7M43MS12F-XXXXFFF	7-16 Male	4.3-10 Male
7M43FS12F-XXXXFFF	7-16 Male	4.3-10 Female
7M43MRS12F-XXXXFFF	7-16 Male	4.3-10 Male Right Angle
7MNMS12F-XXXXFFF	7-16 Male	N-Male
7MNFS12F-XXXXFFF	7-16 Male	N-Female
7MNMRS12F-XXXXFFF	7-16 Male	N-Male Right Angle
7F7FS12F-XXXXFFF	7-16 Female	7-16 Female
7F7MRS12F-XXXXFFF	7-16 Female	7-16 Male Right Angle
7F43MS12F-XXXXFFF	7-16 Female	4.3-10 Male
7F43FS12F-XXXXFFF	7-16 Female	4.3-10 Female
7F43MRS12F-XXXXFFF	7-16 Female	4.3-10 Male Right Angle
7FNMS12F-XXXXFFF	7-16 Female	N-Male
7FNFS12F-XXXXFFF	7-16 Female	N-Female
7FNMRS12F-XXXXFFF	7-16 Female	N-Male Right Angle

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7MR7MRS12F-XXXXFFF	7-16 Male Right Angle	7-16 Male Right Angle
7MR43MS12F-XXXXFFF	7-16 Male Right Angle	4.3-10 Male
7MR43FS12F-XXXXFFF	7-16 Male Right Angle	4.3-10 Female
7MR43MRS12F-XXXXFFF	7-16 Male Right Angle	4.3-10 Male Right Angle
7MRNMS12F-XXXXFFF	7-16 Male Right Angle	N-Male
7MRNFS12F-XXXXFFF	7-16 Male Right Angle	N-Female
7MRNMRS12F-XXXXFFF	7-16 Male Right Angle	N-Male Right Angle
43M43MS12F-XXXXFFF	4.3-10 Male	4.3-10 Male
43M43FS12F-XXXXFFF	4.3-10 Male	4.3-10 Female
43M43MRS12F-XXXXFFF	4.3-10 Male	4.3-10 Male Right Angle
43MNMS12F-XXXXFFF	4.3-10 Male	N-Male
43MNFS12F-XXXXFFF	4.3-10 Male	N-Female
43MNMR12F-XXXXFFF	4.3-10 Male	N-Male Right Angle
43F43FS12F-XXXXFFF	4.3-10 Female	4.3-10 Female
43F43MRS12F-XXXXFFF	4.3-10 Female	4.3-10 Male Right Angle
43FNMS12F-XXXXFFF	4.3-10 Female	N-Male
43FNFS12F-XXXXFFF	4.3-10 Female	N-Female
43FNMR12F-XXXXFFF	4.3-10 Female	N-Male Right Angle
43MR43MRS12F-XXXXFFF	4.3-10 Male Right Angle	4.3-10 Male Right Angle
43MRNMS12F-XXXXFFF	4.3-10 Male Right Angle	N-Male
43MRNFS12F-XXXXFFF	4.3-10 Male Right Angle	N-Female
43MRNMRS12F-XXXXFFF	4.3-10 Male Right Angle	N-Male Right Angle
NMNMS12F-XXXXFFF	N-Male	N-Male
NMNFS12F-XXXXFFF	N-Male	N-Female
NMNMR12F-XXXXFFF	N-Male	N-Male Right Angle
NFNFS12F-XXXXFFF	N-Female	N-Female
NFNMR12F-XXXXFFF	N-Female	N-Male Right Angle
NMRNMRS12F-XXXXFFF	N-Male Right Angle	N-Male Right Angle
43FNXMS12F-XXXXFFF	4.3-10 Female	NEX10 Male
43MNXMS12F-XXXXFFF	4.3-10 Male	NEX10 Male
43MRNXMS12F-XXXXFFF	4.3-10 Male Right Angle	NEX10 Male
7FNXMS12F-XXXXFFF	7-16 Female	NEX10 Male
7MNXMS12F-XXXXFFF	7-16 Male	NEX10 Male
7MRNXMS12F-XXXXFFF	7-16 Male Right Angle	NEX10 Male
NFNXMS12F-XXXXFFF	N-Female	NEX10 Male
NMNXMS12F-XXXXFFF	N-Male	NEX10 Male

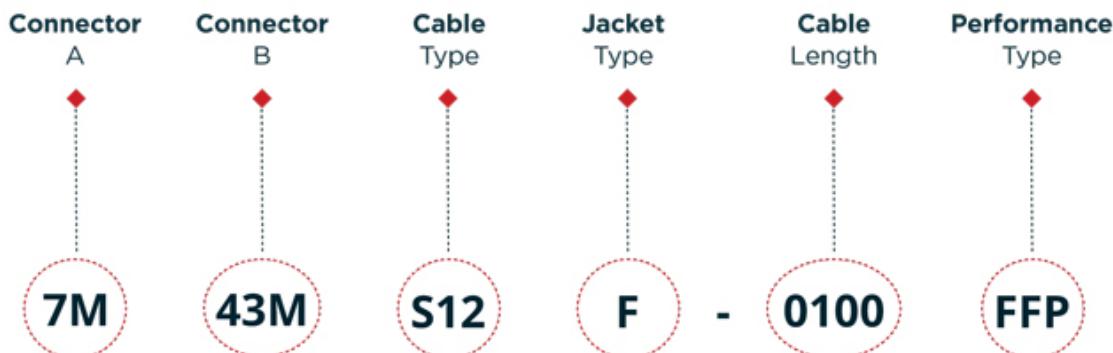
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NMRNXMS12F-XXXXFFF	N-Male Right Angle	NEX10 Male
<b>XXXX in the model name is the length; as well for jumper with boots acc. to nomenclature</b>	(Boot examples below)	(Boot examples below)
43MB43MBS12F-XXXXFFF	4.3-10 Male + Boot	4.3-10 Male + Boot
7MB7MBS12F-XXXXFFF	7-16 Male + Boot	7-16 Male + Boot
NMBNMBS12F-XXXXFFF	N-Male + Boot	N-Male + Boot



## RFS JUMPER MODEL NOMENCLATURE



7M & 43M CONNECTORS A & B		S12 CABLE TYPE	F JACKET TYPE	0100 CABLE LENGTH*	FFF JUMPER PERFORMANCE
7M	7-16 Male	L38 3/8" Low Loss Coax	F JFN Flame Retardant	0100 1 meter	FFF Factory-Fit Premium
7F	7-16 Female	L12 1/2" Low Loss Coax	Blank PE	0200 2 meter	FFPB Factory-Fit Premium; Bird-Proof Option
7MR	7-16 Male Right Angle	S14 1/4" Superflexible Coax		0250 2.5 meter	FFS Factory-Fit Standard
43M	4.3-10 Male	S38 3/8" Superflexible Coax		1000 10 meter	UPM Ultra PIM Performance
43F	4.3-10 Female	S12 1/2" Superflexible Coax		1500 15 meter	
43MH	4.3-10 Male Handscrew			030 3 feet	
43MP	4.3-10 Male Push Pull			060 6 feet	
43MR	4.3-10 Male Right Angle			100 10 feet	
NM	N-Type Male			150 15 feet	
NF	N-Type Female			200 20 feet	
NMR	N-Type Male Right Angle				
NXM	NEX10 Male				
NXMP	NEX10 Male Push Pull				
7MB	7-16 Male with Weatherboots				
43MB	4.3-10 Male with Weatherboots				
NMB	N-Type Male with Weatherboots				

## NOTES:

\* 4 digits indicate meter length, 3 digits indicate feet length  
Others lengths available on request

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## External Document Links

[Cable SCF12-50JFN](#)[Handling instruction](#)[Jumper Brochure](#)

## Notes