

**JUMPER-L12F-FFP**

CELLFLEX® Factory-Fit Jumper Assembly, 1/2" Low Loss 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.



7M7MS12-0100FFP for EXAMPLE

**Technical features****STRUCTURE**

Cable Type		1/2" Low Loss Foam
Jumper Type		Factory-Fit (Premium)
Dielectric		PTFE
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)	125 (5)
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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)
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**JUMPER VSWR 0 - 10 M**

Frequency [MHz]	Straight / Straight [dB] (VSWR)	Right Angle / Right Angle [dB] (VSWR)
0 - 1000	>28.0 (≤1.08)	>28.0 (≤1.08)
>1000-1700	>28.0 (≤1.08)	>26.4 (≤1.10)
>1700-2200	>28.0 (≤1.08)	>26.4 (≤1.10)
>2200-2700	>26.4 (≤1.10)	>24.9 (≤1.12)
>2700-3800	>23.1 (≤1.15)	>20.8 (≤1.20)

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**JUMPER VSWR 10 - 20 M**

Frequency [MHz]	Straight / Straight [dB] (VSWR)	Right Angle / Right Angle [dB] (VSWR)
0 - 1000	>28.0 ( $\leq 1.08$ )	>28.0 ( $\leq 1.08$ )
>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 ( $\leq 1.25$ )

**COMBINATIONS**

Model Name	Connector 1	Connector 2
7M7ML12F-XXXXFFP	7-16 Male	7-16 Male
7M7FL12F-XXXXFFP	7-16 Male	7-16 Female
7M7MRL12F-XXXXFFP	7-16 Male	7-16 Male Right Angle
7M43ML12F-XXXXFFP	7-16 Male	4.3-10 Male
7M43FL12F-XXXXFFP	7-16 Male	4.3-10 Female
7M43MRL12F-XXXXFFP	7-16 Male	4.3-10 Male Right Angle
7MNML12F-XXXXFFP	7-16 Male	N-Male
7MNFL12F-XXXXFFP	7-16 Male	N-Female
7MNMRL12F-XXXXFFP	7-16 Male	N-Male Right Angle
7F7FL12F-XXXXFFP	7-16 Female	7-16 Female
7F7MRL12F-XXXXFFP	7-16 Female	7-16 Male Right Angle
7F43ML12F-XXXXFFP	7-16 Female	4.3-10 Male
7F43FL12F-XXXXFFP	7-16 Female	4.3-10 Female
7F43MRL12F-XXXXFFP	7-16 Female	4.3-10 Male Right Angle
7FNML12F-XXXXFFP	7-16 Female	N-Male
7FNFL12F-XXXXFFP	7-16 Female	N-Female
7FNMRL12F-XXXXFFP	7-16 Female	N-Male Right Angle
7MR7MRL12F-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle
7MR43ML12F-XXXXFFP	7-16 Male Right Angle	4.3-10 Male
7MR43FL12F-XXXXFFP	7-16 Male Right Angle	4.3-10 Female
7MR43MRL12F-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle
7MRNML12F-XXXXFFP	7-16 Male Right Angle	N-Male
7MRNFL12F-XXXXFFP	7-16 Male Right Angle	N-Female
7MRNMRL12F-XXXXFFP	7-16 Male Right Angle	N-Male Right Angle
43M43ML12F-XXXXFFP	4.3-10 Male	4.3-10 Male
43M43FL12F-XXXXFFP	4.3-10 Male	4.3-10 Female
43M43MRL12F-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle
43MNML12F-XXXXFFP	4.3-10 Male	N-Male
43MNFL12F-XXXXFFP	4.3-10 Male	N-Female
43MNMRL12F-XXXXFFP	4.3-10 Male	N-Male Right Angle
43F43FL12F-XXXXFFP	4.3-10 Female	4.3-10 Female
43F43MRL12F-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle

**JUMPER-L12F-FFP**

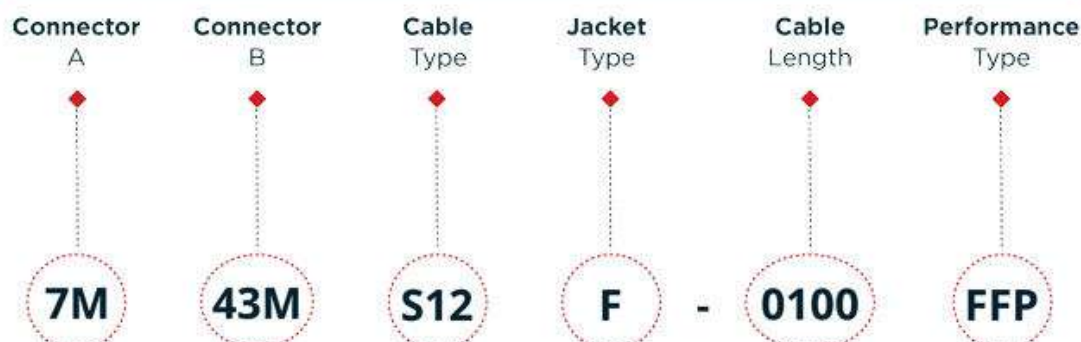
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<b>43FNML12F-XXXXFFP</b>	4.3-10 Female	N-Male
<b>43FNFL12F-XXXXFFP</b>	4.3-10 Female	N-Female
<b>43FNMRL12F-XXXXFFP</b>	4.3-10 Female	N-Male Right Angle
<b>43MR43MRL12F-XXXXFFP</b>	4.3-10 Male Right Angle	4.3-10 Male Right Angle
<b>43MRNML12F-XXXXFFP</b>	4.3-10 Male Right Angle	N-Male
<b>43MRNFL12F-XXXXFFP</b>	4.3-10 Male Right Angle	N-Female
<b>43MRNMRL12F-XXXXFFP</b>	4.3-10 Male Right Angle	N-Male Right Angle
<b>NMNML12F-XXXXFFP</b>	N-Male	N-Male
<b>NMNFL12F-XXXXFFP</b>	N-Male	N-Female
<b>NMNMRL12F-XXXXFFP</b>	N-Male	N-Male Right Angle
<b>NFNFL12F-XXXXFFP</b>	N-Female	N-Female
<b>NFNMRL12F-XXXXFFP</b>	N-Female	N-Male Right Angle
<b>NMRNMRL12F-XXXXFFP</b>	N-Male Right Angle	N-Male Right Angle
<b>XXXX in the model name is the length; as well for jumper with boots acc. to nomenclature</b>		

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## RFS JUMPER MODEL NOMENCLATURE



### 7M & 43M CONNECTORS A & B

<b>7M</b>	7-16 Male
<b>7F</b>	7-16 Female
<b>7MR</b>	7-16 Male Right Angle
<b>43M</b>	4.3-10 Male
<b>43F</b>	4.3-10 Female
<b>43MH</b>	4.3-10 Male Handscrew
<b>43MP</b>	4.3-10 Male Push Pull
<b>43MR</b>	4.3-10 Male Right Angle
<b>NM</b>	N-Type Male
<b>NF</b>	N-Type Female
<b>NMR</b>	N-Type Male Right Angle
<b>NXM</b>	NEX10 Male
<b>NXMP</b>	NEX10 Male Push Pull
<b>7MB</b>	7-16 Male with Weatherboots
<b>43MB</b>	4.3-10 Male with Weatherboots
<b>NMB</b>	N-Type Male with Weatherboots

### S12 CABLE TYPE

<b>L38</b>	3/8" Low Loss Coax
<b>L12</b>	1/2" Low Loss Coax
<b>S14</b>	1/4" Superflexible Coax
<b>S38</b>	3/8" Superflexible Coax
<b>S12</b>	1/2" Superflexible Coax

### F JACKET TYPE

<b>F</b>	JFN Flame Retardant
<b>Blank</b>	PE

### 0100 CABLE LENGTH\*

<b>0100</b>	1 meter
<b>0200</b>	2 meter
<b>0250</b>	2.5 meter
<b>1000</b>	10 meter
<b>1500</b>	15 meter
<b>030</b>	3 feet
<b>060</b>	6 feet
<b>100</b>	10 feet
<b>150</b>	15 feet
<b>200</b>	20 feet

### FFP JUMPER PERFORMANCE

<b>FFP</b>	Factory-Fit Premium
<b>FFS</b>	Factory-Fit Standard
<b>UPM</b>	Ultra PIM Performance

**NOTES:**

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

## External Document Links

[Cable LCF12-50JFN](#)  
[Handling instruction](#)  
[Jumper Brochure](#)

## Notes