



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.



7MB43MBL12-0500FFP for EXAMPLE

**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.

**Technical features**

**STRUCTURE**

Cable Type		1/2" Low Loss Foam
Jumper Type		Factory-Fit (Premium)
Dielectric		Foam Polyethylene
Gasket		Silicone rubber
Jacket		Black Polyethylene, Halogen-free acc. IEC 60754-1 and -2

**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)	-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	≤ -159 static & dynamic (-161 typical)
Peak Power Rating	kW	8.1
RF Peak Voltage	Volts	900

**JUMPER VSWR 0 - 10 M**

Frequency [MHz]	Straight / Straight [dB] (VSWR)	Right Angle / Right Angle [dB] (VSWR)
0 - 1000	>28.3 (≤1.08)	>28.3 (≤1.08)
>1000-1700	>28.3 (≤1.08)	>26.4 (≤1.10)



**JUMPER-L12-FFP**

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

>1700-2200	>28.3 (≤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)
>3800-5000	>20.8 (≤1.20)	>19.1 (≤1.25)
>5000-6000	>17.7 (≤1.30)	>17.7 (≤1.30)

**JUMPER VSWR 10 - 20 M**

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

**COMBINATIONS**

Model Name	Connector 1	Connector 2
7M7ML12-XXXXFFP	7-16 Male	7-16 Male
7M7FL12-XXXXFFP	7-16 Male	7-16 Female
7M7MRL12-XXXXFFP	7-16 Male	7-16 Male Right Angle
7M43ML12-XXXXFFP	7-16 Male	4.3-10 Male
7M43FL12-XXXXFFP	7-16 Male	4.3-10 Female
7M43MRL12-XXXXFFP	7-16 Male	4.3-10 Male Right Angle
7MNML12-XXXXFFP	7-16 Male	N-Male
7MNFL12-XXXXFFP	7-16 Male	N-Female
7F7FL12-XXXXFFP	7-16 Female	7-16 Female
7F7MRL12-XXXXFFP	7-16 Female	7-16 Male Right Angle
7F43ML12-XXXXFFP	7-16 Female	4.3-10 Male
7F43FL12-XXXXFFP	7-16 Female	4.3-10 Female
7F43MRL12-XXXXFFP	7-16 Female	4.3-10 Male Right Angle
7FNML12-XXXXFFP	7-16 Female	N-Male
7FNFL12-XXXXFFP	7-16 Female	N-Female
7MR7MRL12-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle
7MR43ML12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male
7MR43FL12-XXXXFFP	7-16 Male Right Angle	4.3-10 Female
7MR43MRL12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle
7MRNML12-XXXXFFP	7-16 Male Right Angle	N-Male



**JUMPER-L12-FFP**

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

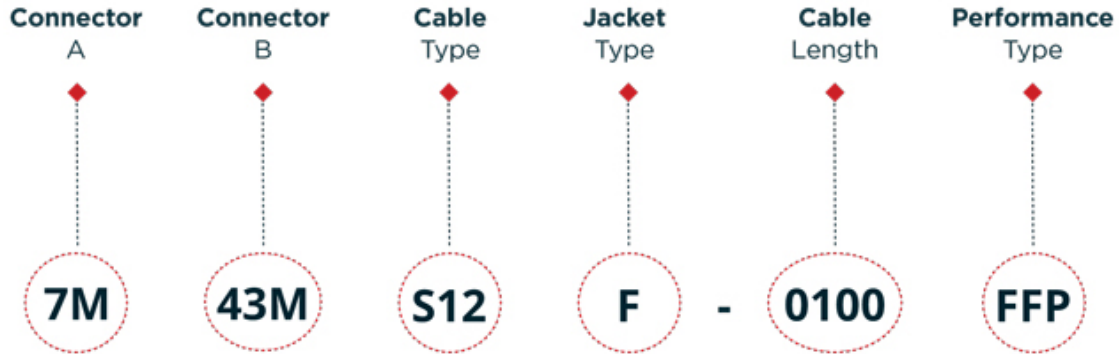
7MRNFL12-XXXXFFP	7-16 Male Right Angle	N-Female
43M43ML12-XXXXFFP	4.3-10 Male	4.3-10 Male
43M43FL12-XXXXFFP	4.3-10 Male	4.3-10 Female
43M43MRL12-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle
43MNML12-XXXXFFP	4.3-10 Male	N-Male
43MNFL12-XXXXFFP	4.3-10 Male	N-Female
43F43FL12-XXXXFFP	4.3-10 Female	4.3-10 Female
43F43MRL12-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle
43FNML12-XXXXFFP	4.3-10 Female	N-Male
43FNFL12-XXXXFFP	4.3-10 Female	N-Female
43MR43MRL12-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle
43MRNML12-XXXXFFP	4.3-10 Male Right Angle	N-Male
43MRNFL12-XXXXFFP	4.3-10 Male Right Angle	N-Female
NMNML12-XXXXFFP	N-Male	N-Male
NMNFL12-XXXXFFP	N-Male	N-Female
NFNFL12-XXXXFFP	N-Female	N-Female
43FNXML12-XXXXFFP	4.3-10 Female	NEX10 Male
43MNXML12-XXXXFFP	4.3-10 Male	NEX10 Male
43MRNXML12-XXXXFFP	4.3-10 Male Right Angle	NEX10 Male
7FNXML12-XXXXFFP	7-16 Female	NEX10 Male
7MNXML12-XXXXFFP	7-16 Male	NEX10 Male
7MRNXML12-XXXXFFP	7-16 Male Right Angle	NEX10 Male
NFNXML12-XXXXFFP	N-Female	NEX10 Male
NMNXML12-XXXXFFP	N-Male	NEX10 Male
XXXX in the model name is the length; as well for jumper with boots acc. to nomenclature	(Boot examples below)	(Boot examples below)
43MB43MBL12-XXXXFFP	4.3-10 Male + Boot	4.3-10 Male + Boot
7MB7MBL12-XXXXFFP	7-16 Male + Boot	7-16 Male + Boot
NMBNMBL12-XXXXFFP	N-Male + Boot	N-Male + Boot



**JUMPER-L12-FFP**

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

## 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>FFPB</b>	Factory-Fit Premium; Bird-Proof Option
<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



## JUMPER-L12-FFP

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

### External Document Links

[LCF12-50J](#)

[Handling instruction](#)

[Jumper Brochure](#)

### Notes