



**JUMPER-S12-FFP**

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

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.



7M7MS12-0100FFP 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" Superflexible Foam
Jumper Type		Factory-Fit (Premium)
Dielectric		PTFE
Gasket		Silicone rubber
Jacket		Black Polyethylene, Halogen-free acc. IEC 60754-1 and -2

**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)	-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)
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**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)
>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 ( $\leq 1.08$ )	>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
7M7MS12-XXXXFFP	7-16 Male	7-16 Male
7M7FS12-XXXXFFP	7-16 Male	7-16 Female
7M7MRS12-XXXXFFP	7-16 Male	7-16 Male Right Angle
7M43MS12-XXXXFFP	7-16 Male	4.3-10 Male
7M43FS12-XXXXFFP	7-16 Male	4.3-10 Female
7M43MRS12-XXXXFFP	7-16 Male	4.3-10 Male Right Angle
7MNMMS12-XXXXFFP	7-16 Male	N-Male
7MNFMS12-XXXXFFP	7-16 Male	N-Female
7MNMRS12-XXXXFFP	7-16 Male	N-Male Right Angle**
7F7FS12-XXXXFFP	7-16 Female	7-16 Female
7F7MRS12-XXXXFFP	7-16 Female	7-16 Male Right Angle
7F43MS12-XXXXFFP	7-16 Female	4.3-10 Male
7F43FS12-XXXXFFP	7-16 Female	4.3-10 Female
7F43MRS12-XXXXFFP	7-16 Female	4.3-10 Male Right Angle
7FNMS12-XXXXFFP	7-16 Female	N-Male
7FNFS12-XXXXFFP	7-16 Female	N-Female
7FNMRS12-XXXXFFP	7-16 Female	N-Male Right Angle**
7MR7MRS12-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle
7MR43MS12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male
7MR43FS12-XXXXFFP	7-16 Male Right Angle	4.3-10 Female
7MR43MRS12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle
7MRNMS12-XXXXFFP	7-16 Male Right Angle	N-Male
7MRNFS12-XXXXFFP	7-16 Male Right Angle	N-Female
7MRNMRS12-XXXXFFP	7-16 Male Right Angle	N-Male Right Angle**
43M43MS12-XXXXFFP	4.3-10 Male	4.3-10 Male
43M43FS12-XXXXFFP	4.3-10 Male	4.3-10 Female
43M43MRS12-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle
43MNMMS12-XXXXFFP	4.3-10 Male	N-Male
43MNFMS12-XXXXFFP	4.3-10 Male	N-Female



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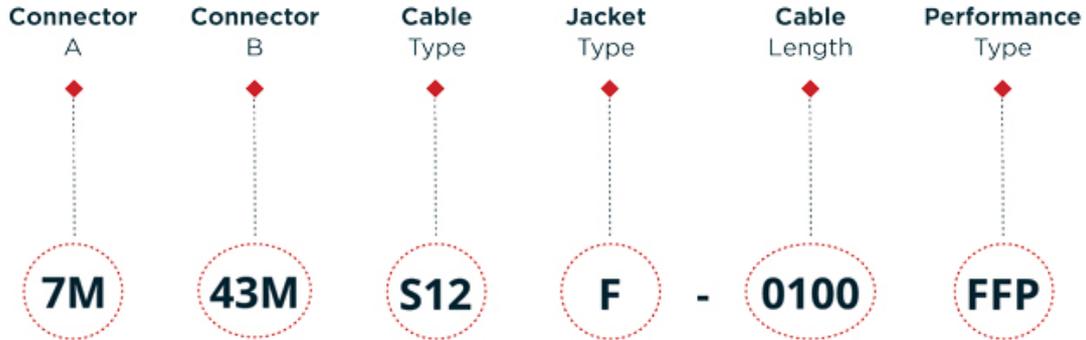
43MNMRS12-XXXXFFP	4.3-10 Male	N-Male Right Angle**
43F43FS12-XXXXFFP	4.3-10 Female	4.3-10 Female
43F43MRS12-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle
43FNMS12-XXXXFFP	4.3-10 Female	N-Male
43FNFS12-XXXXFFP	4.3-10 Female	N-Female
43FNMRS12-XXXXFFP	4.3-10 Female	N-Male Right Angle**
43MR43MRS12-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle
43MRNMS12-XXXXFFP	4.3-10 Male Right Angle	N-Male
43MRNFS12-XXXXFFP	4.3-10 Male Right Angle	N-Female
43MRNMRS12-XXXXFFP	4.3-10 Male Right Angle	N-Male Right Angle**
NMNMS12-XXXXFFP	N-Male	N-Male
NMNFS12-XXXXFFP	N-Male	N-Female
NMNMRS12-XXXXFFP	N-Male	N-Male Right Angle**
NFNFS12-XXXXFFP	N-Female	N-Female
NFNMRS12-XXXXFFP	N-Female	N-Male Right Angle**
NMRNMRS12-XXXXFFP	N-Male Right Angle**	N-Male Right Angle**
43FNXMS12-XXXXFFP	4.3-10 Female	NEX10 Male*
43MNXMS12-XXXXFFP	4.3-10 Male	NEX10 Male*
43MRNXMS12-XXXXFFP	4.3-10 Male Right Angle	NEX10 Male*
7FNXMS12-XXXXFFP	7-16 Female	NEX10 Male*
7MNXMS12-XXXXFFP	7-16 Male	NEX10 Male*
7MRNXMS12-XXXXFFP	7-16 Male Right Angle	NEX10 Male*
NFNXMS12-XXXXFFP	N-Female	NEX10 Male*
NMNXMS12-XXXXFFP	N-Male	NEX10 Male*
NMRNXMS12-XXXXFFP	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>	*6 GHz Version available by end of 2021	**Only available up to 3.8 GHz



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

#### Notes