



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.

Technical features

STRUCTURE

Cable Type		1/2" Low Loss 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)	125 (5)
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TESTING AND ENVIRONMENTAL

Sealing class		IP68
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ELECTRICAL SPECIFICATIONS

Intermodulation, 3rd Order	dBc	≤ See table below
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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)



Length ≤ 5m			
Frequency [MHz]	Straight/Straight [dB] (VSWR)	Straight/Right Angle [dB] (VSWR)	Right Angle/Right Angle [dB] (VSWR)
10-1000	≥32 (≤1.052)	≥32 (≤1.052)	≥30 (≤1.065)
>1000-1700	≥30 (≤1.065)	≥30 (≤1.065)	≥30 (≤1.065)
>1700-2200	≥30 (≤1.065)	≥30 (≤1.065)	≥28 (≤1.083)
>2200-2700	≥28 (≤1.083)	≥28 (≤1.083)	≥26 (≤1.106)
>2700-3800	≥26 (≤1.106)	≥25 (≤1.119)	≥22 (≤1.173)
Length > 5 ≤ 10m			
Frequency [MHz]	Straight/Straight [dB] (VSWR)	Straight/Right Angle [dB] (VSWR)	Right Angle/Right Angle [dB] (VSWR)
10-1000	≥31 (≤1.058)	≥31 (≤1.058)	≥29 (≤1.074)
>1000-1700	≥29 (≤1.074)	≥29 (≤1.074)	≥29 (≤1.074)
>1700-2200	≥29 (≤1.074)	≥29 (≤1.074)	≥27 (≤1.094)
>2200-2700	≥27 (≤1.094)	≥27 (≤1.094)	≥25 (≤1.119)
>2700-3800	≥25 (≤1.119)	≥24 (≤1.135)	≥21 (≤1.196)
Length >10 ≤ 25m			
Frequency [MHz]	Straight/Straight [dB] (VSWR)	Straight/Right Angle [dB] (VSWR)	Right Angle/Right Angle [dB] (VSWR)
10-1000	≥30 (≤1.065)	≥30 (≤1.065)	≥28 (≤1.083)
>1000-1700	≥28 (≤1.083)	≥28 (≤1.083)	≥28 (≤1.083)
>1700-2200	≥28 (≤1.083)	≥28 (≤1.083)	≥26 (≤1.106)
>2200-2700	≥26 (≤1.106)	≥26 (≤1.106)	≥24 (≤1.135)
>2700-3800	≥24 (≤1.135)	≥23 (≤1.152)	≥20 (≤1.22)
Combinations			
Model Name	Connector 1	Connector 2	Intermodulation (PIM)
7M7ML12-XXXXFFP	7-16 Male	7-16 Male	≤ -153 (-161 typical)
7M7FL12-XXXXFFP	7-16 Male	7-16 Female	≤ -153 (-161 typical)
7M7MRL12-XXXXFFP	7-16 Male	7-16 Male Right Angle	≤ -153 (-161 typical)
7M43ML12-XXXXFFP	7-16 Male	4.3-10 Male	≤ -153 (-161 typical)
7M43FL12-XXXXFFP	7-16 Male	4.3-10 Female	≤ -153 (-161 typical)
7M43MRL12-XXXXFFP	7-16 Male	4.3-10 Male Right Angle	≤ -153 (-161 typical)
7MNNML12-XXXXFFP	7-16 Male	N-Male	≤ -153
7MNNFL12-XXXXFFP	7-16 Male	N-Female	≤ -153
7MNNMRL12-XXXXFFP	7-16 Male	N-Male Right Angle	≤ -153
7F7FL12-XXXXFFP	7-16 Female	7-16 Female	≤ -153 (-161 typical)
7F7MRL12-XXXXFFP	7-16 Female	7-16 Male Right Angle	≤ -153 (-161 typical)
7F43ML12-XXXXFFP	7-16 Female	4.3-10 Male	≤ -153 (-161 typical)
7F43FL12-XXXXFFP	7-16 Female	4.3-10 Female	≤ -153 (-161 typical)
7F43MRL12-XXXXFFP	7-16 Female	4.3-10 Male Right Angle	≤ -153 (-161 typical)
7FNML12-XXXXFFP	7-16 Female	N-Male	≤ -153
7FNFL12-XXXXFFP	7-16 Female	N-Female	≤ -153
7MR7MRL12-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle	≤ -153 (-161 typical)
7MR43ML12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male	≤ -153 (-161 typical)
7MR43FL12-XXXXFFP	7-16 Male Right Angle	4.3-10 Female	≤ -153 (-161 typical)
7MR43MRL12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle	≤ -153 (-161 typical)
7MRNNML12-XXXXFFP	7-16 Male Right Angle	N-Male	≤ -153
7MRNNFL12-XXXXFFP	7-16 Male Right Angle	N-Female	≤ -153
43M43ML12-XXXXFFP	4.3-10 Male	4.3-10 Male	≤ -153 (-161 typical)
43M43FL12-XXXXFFP	4.3-10 Male	4.3-10 Female	≤ -153 (-161 typical)
43M43MRL12-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle	≤ -153 (-161 typical)
43MNNML12-XXXXFFP	4.3-10 Male	N-Male	≤ -153
43MNNFL12-XXXXFFP	4.3-10 Male	N-Female	≤ -153
43MNNMRL12-XXXXFFP	4.3-10 Male	N-Male Right Angle	≤ -153
43F43FL12-XXXXFFP	4.3-10 Female	4.3-10 Female	≤ -153 (-161 typical)
43F43MRL12-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle	≤ -153 (-161 typical)
43FNML12-XXXXFFP	4.3-10 Female	N-Male	≤ -153
43FNFL12-XXXXFFP	4.3-10 Female	N-Female	≤ -153
43MR43MRL12-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle	≤ -153 (-161 typical)
43MRNNML12-XXXXFFP	4.3-10 Male Right Angle	N-Male	≤ -153
43MRNNFL12-XXXXFFP	4.3-10 Male Right Angle	N-Female	≤ -153
NMNNML12-XXXXFFP	N-Male	N-Male	≤ -153
NMNNFL12-XXXXFFP	N-Male	N-Female	≤ -153
NMNNMRL12-XXXXFFP	N-Male	N-Male Right Angle	≤ -153
NFNFL12-XXXXFFP	N-Female	N-Female	≤ -153
NFNMRL12-XXXXFFP	N-Female	N-Male Right Angle	≤ -153
NMNNMRL12-XXXXFFP	N-Male Right Angle	N-Male Right Angle	≤ -153

XXXX in the model name is the length; as well for jumper with boots acc. to nomenclature



JUMPER-L12-FFP

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

Connector A Connector B Cable Type Jacket Length Performance

7M **43M** **S12** **F** **0100** **FFP**

Short Description	Connector Type
7M	7-16 Male
7F	7-16 Female
7MR	7-16 Male Right Angle
43M	4.3-10 Male
43F	4.3-10 Female
43MR	4.3-10 Male Right Angle
NM	N-Type Male
NF	N-Type Female
NMR	N-Type Male Right Angle
NXM	NEX10 Male
7MB	7-16 Male with weatherboots
43MB	4.3-10 Male with weatherboots
NMB	N-Type Male with weatherboots

Short Description	Cable Type
S12	Superflexible 1/2"
L12	Low Loss Foam 1/2"
S38	Superflexible 3/8"
S14	Superflexible 1/4"

Short Description	Jacket
F	FN Flame Retardant
Blank	PE

Short Description	Length
0100	1m
0200	2m
0250	2.50m
1000	10m
1500	15m
030	3ft
060	6ft
100	10ft
150	15ft
200	20ft

Short Description	Performance
FFP	Factory Fit Premium Ultra-FIT Performance
UPM	Ultra-Premium Performance
FFS	Factory Fit Standard

Jumper Nomenclature

External Document Links

[LCF12-50J](#)

[Handling instruction](#)

Notes