



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		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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ELECTRICAL SPECIFICATIONS

Intermodulation, 3rd Order	dBc	≤ see table below
Screen Efficiency	(db)	
Power Rating	(W)	

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 0 - 10 m			Length 10 - 20 m		
Frequency	Straight/Straight	Right Angle/Right Angle	Frequency	Straight/Straight	Right Angle/Right Angle
[MHz]	[dB] (VSWR)	[dB] (VSWR)	[MHz]	[dB] (VSWR)	[dB] (VSWR)
0-1000	≥28 (≤1.08)	≥28 (≤1.08)	0-1000	≥28 (≤1.08)	≥28 (≤1.08)
>1000-1700	≥28 (≤1.08)	≥26 (≤1.1)	>1000-1700	≥26 (≤1.1)	≥24 (≤1.135)
>1700-2200	≥28 (≤1.08)	≥26 (≤1.1)	>1700-2200	≥26 (≤1.1)	≥24 (≤1.135)
>2200-2700	≥26 (≤1.1)	≥24 (≤1.12)	>2200-2700	≥24 (≤1.12)	≥24 (≤1.135)
>2700-3800	≥23 (≤1.15)	≥23 (≤1.15)	>2700-3800	≥21 (≤1.2)	≥19 (≤1.25)

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
7MD	7-16 Male with weatherboots
43MD	4.3-10 Male with weatherboots
NMD	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	JFN 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-FFP Performance
URP	Ultra-FFP Performance
FFS	Factory Fit Standard

Jumper Nomenclature

Combinations			
Model Name	Connector 1	Connector 2	Intermodulation (PIM)
7M7MS12F-XXXXFFP	7-16 Male	7-16 Male	≤ -153 (-161 typical)
7M7FS12F-XXXXFFP	7-16 Male	7-16 Female	≤ -153 (-161 typical)
7M7MRS12F-XXXXFFP	7-16 Male	7-16 Male Right Angle	≤ -153 (-161 typical)
7M43MS12F-XXXXFFP	7-16 Male	4.3-10 Male	≤ -153 (-161 typical)
7M43FS12F-XXXXFFP	7-16 Male	4.3-10 Female	≤ -153 (-161 typical)
7M43MRS12F-XXXXFFP	7-16 Male	4.3-10 Male Right Angle	≤ -153 (-161 typical)
7MNMMS12F-XXXXFFP	7-16 Male	N-Male	≤ -153
7MNMFS12F-XXXXFFP	7-16 Male	N-Female	≤ -153
7MNMRS12F-XXXXFFP	7-16 Male	N-Male Right Angle	≤ -153
7F7MS12F-XXXXFFP	7-16 Female	7-16 Female	≤ -153 (-161 typical)
7F7MRS12F-XXXXFFP	7-16 Female	7-16 Male Right Angle	≤ -153 (-161 typical)
7F43MS12F-XXXXFFP	7-16 Female	4.3-10 Male	≤ -153 (-161 typical)
7F43FS12F-XXXXFFP	7-16 Female	4.3-10 Female	≤ -153 (-161 typical)
7F43MRS12F-XXXXFFP	7-16 Female	4.3-10 Male Right Angle	≤ -153 (-161 typical)
7FNMS12F-XXXXFFP	7-16 Female	N-Male	≤ -153
7FNFS12F-XXXXFFP	7-16 Female	N-Female	≤ -153
7MR7MRS12F-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle	≤ -153 (-161 typical)
7MR43MS12F-XXXXFFP	7-16 Male Right Angle	4.3-10 Male	≤ -153 (-161 typical)
7MR43FS12F-XXXXFFP	7-16 Male Right Angle	4.3-10 Female	≤ -153 (-161 typical)
7MR43MRS12F-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle	≤ -153 (-161 typical)
7MRNMMS12F-XXXXFFP	7-16 Male Right Angle	N-Male	≤ -153
7MRNMFS12F-XXXXFFP	7-16 Male Right Angle	N-Female	≤ -153
43M43MS12F-XXXXFFP	4.3-10 Male	4.3-10 Male	≤ -153 (-161 typical)
43M43FS12F-XXXXFFP	4.3-10 Male	4.3-10 Female	≤ -153 (-161 typical)
43M43MRS12F-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle	≤ -153 (-161 typical)
43MNMMS12F-XXXXFFP	4.3-10 Male	N-Male	≤ -153
43MNMFS12F-XXXXFFP	4.3-10 Male	N-Female	≤ -153
43MNMRS12F-XXXXFFP	4.3-10 Male	N-Male Right Angle	≤ -153
43F43FS12F-XXXXFFP	4.3-10 Female	4.3-10 Female	≤ -153 (-161 typical)
43F43MRS12F-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle	≤ -153 (-161 typical)
43FNMS12F-XXXXFFP	4.3-10 Female	N-Male	≤ -153
43FNFS12F-XXXXFFP	4.3-10 Female	N-Female	≤ -153
43MR43MRS12F-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle	≤ -153 (-161 typical)
43MRNMMS12F-XXXXFFP	4.3-10 Male Right Angle	N-Male	≤ -153
43MRNMFS12F-XXXXFFP	4.3-10 Male Right Angle	N-Female	≤ -153
NMNMMS12F-XXXXFFP	N-Male	N-Male	≤ -153
NMNMFS12F-XXXXFFP	N-Male	N-Female	≤ -153
NMNMRS12F-XXXXFFP	N-Male	N-Male Right Angle	≤ -153
NFNMFS12F-XXXXFFP	N-Female	N-Female	≤ -153
NFNMRS12F-XXXXFFP	N-Female	N-Male Right Angle	≤ -153
NMRNMRS12F-XXXXFFP	N-Male Right Angle	N-Male Right Angle	≤ -153
43FNXMS12-XXXXFFP	4.3-10 Female	NEX10 Male	≤ -153 (-161 typical)
43MNXMS12-XXXXFFP	4.3-10 Male	NEX10 Male	≤ -153 (-161 typical)
43MRNXMS12-XXXXFFP	4.3-10 Male Right Angle	NEX10 Male	≤ -153 (-161 typical)
7FNXMS12-XXXXFFP	7-16 Female	NEX10 Male	≤ -153 (-161 typical)
7MNXMS12-XXXXFFP	7-16 Male	NEX10 Male	≤ -153 (-161 typical)
7MRNXMS12-XXXXFFP	7-16 Male Right Angle	NEX10 Male	≤ -153 (-161 typical)
NFNXMS12-XXXXFFP	N-Female	NEX10 Male	≤ -153 (-161 typical)
NMNXMS12-XXXXFFP	N-Male	NEX10 Male	≤ -153 (-161 typical)
NMRNXMS12-XXXXFFP	N-Male Right Angle	NEX10 Male	≤ -153 (-161 typical)

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



External Document Links

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

Notes