



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.



43M43MRS14-0100FFP 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		1/4" 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 and non corrosive, IEC 61034 low smoke emission, IEC 60332-1 flame retardant

**MECHANICAL SPECIFICATIONS**

Minimum Bend Radius	mm (in)	25 (0.98)
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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	≤ see table below
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**JUMPER-S14F-FFP**

CELLFLEX® Factory-Fit Jumper Assembly, 1/4" Superflexible Foam, with flame retardant jacket

Connector A Connector B Cable Type Jacket Length Performance



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
43MH	4.3-10 Male with Handscrew
NXMP	NEX10 Male with Push/Pull
43MP	4.3-10 Male with Push/Pull

Short Description	Cable Type
S12	Superflexible 1/2"
L12	Low Loss Foam 1/2"
S38	Superflexible 3/8"
S14	Superflexible 1/4"
L38	Low Loss Foam 3/8"

Short Description	Jacket
F	JFN Flame Retardant
Blank	PE

Short Description	Length
4 digits indicate meter length, 3 digits indicate feet 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 (all Sizes and Types)
UPM	Ultra PIM Performance (only NXM/43M SCF14)
FFS	Factory Fit Standard (only 43M/7M SCF12)

Jumper Nomenclature

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)



**JUMPER-S14F-FFP**

CELLFLEX® Factory-Fit Jumper Assembly, 1/4" Superflexible Foam, with flame retardant jacket

Combinations			
Model Name	Connector 1	Connector 2	Intermodulation (PIM)
7M7MS14F-XXXXFFP	7-16 Male	7-16 Male	≤ -159 (-161 typical)
7M7FS14F-XXXXFFP	7-16 Male	7-16 Female	≤ -159 (-161 typical)
7M7MRS14F-XXXXFFP	7-16 Male	7-16 Male Right Angle	≤ -159 (-161 typical)
7M43MS14F-XXXXFFP	7-16 Male	4.3-10 Male	≤ -159 (-161 typical)
7M43FS14F-XXXXFFP	7-16 Male	4.3-10 Female	≤ -159 (-161 typical)
7M43MRS14F-XXXXFFP	7-16 Male	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7MNMMS14F-XXXXFFP	7-16 Male	N-Male	≤ -159
7MNFMS14F-XXXXFFP	7-16 Male	N-Female	≤ -159
7MNMRS14F-XXXXFFP	7-16 Male	N-Male Right Angle	≤ -159
7F7FS14F-XXXXFFP	7-16 Female	7-16 Female	≤ -159 (-161 typical)
7F7MS14F-XXXXFFP	7-16 Female	7-16 Male Right Angle	≤ -159 (-161 typical)
7F43MS14F-XXXXFFP	7-16 Female	4.3-10 Male	≤ -159 (-161 typical)
7F43FS14F-XXXXFFP	7-16 Female	4.3-10 Female	≤ -159 (-161 typical)
7F43MRS14F-XXXXFFP	7-16 Female	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7FNMS14F-XXXXFFP	7-16 Female	N-Male	≤ -159
7FNFS14F-XXXXFFP	7-16 Female	N-Female	≤ -159
7MR7MRS14F-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle	≤ -159 (-161 typical)
7MR43MS14F-XXXXFFP	7-16 Male Right Angle	4.3-10 Male	≤ -159 (-161 typical)
7MR43FS14F-XXXXFFP	7-16 Male Right Angle	4.3-10 Female	≤ -159 (-161 typical)
7MR43MRS14F-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7MRNMMS14F-XXXXFFP	7-16 Male Right Angle	N-Male	≤ -159
7MRNFMS14F-XXXXFFP	7-16 Male Right Angle	N-Female	≤ -159
43M43MS14F-XXXXFFP	4.3-10 Male	4.3-10 Male	≤ -159 (-161 typical)
43M43FS14F-XXXXFFP	4.3-10 Male	4.3-10 Female	≤ -159 (-161 typical)
43M43MRS14F-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle	≤ -159 (-161 typical)
43MNMMS14F-XXXXFFP	4.3-10 Male	N-Male	≤ -159
43MNFMS14F-XXXXFFP	4.3-10 Male	N-Female	≤ -159
43MNMRS14F-XXXXFFP	4.3-10 Male	N-Male Right Angle	≤ -159
43F43FS14F-XXXXFFP	4.3-10 Female	4.3-10 Female	≤ -159 (-161 typical)
43F43MRS14F-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle	≤ -159 (-161 typical)
43FNMS14F-XXXXFFP	4.3-10 Female	N-Male	≤ -159
43FNFS14F-XXXXFFP	4.3-10 Female	N-Female	≤ -159
43MR43MRS14F-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle	≤ -159 (-161 typical)
43MRNMMS14F-XXXXFFP	4.3-10 Male Right Angle	N-Male	≤ -159
43MRNFMS14F-XXXXFFP	4.3-10 Male Right Angle	N-Female	≤ -159
NMNMMS14F-XXXXFFP	N-Male	N-Male	≤ -159
NMNFMS14F-XXXXFFP	N-Male	N-Female	≤ -159
NMNMRS14F-XXXXFFP	N-Male	N-Male Right Angle	≤ -159
NFNFS14F-XXXXFFP	N-Female	N-Female	≤ -159
43NMNMMS14F-XXXXFFP	4.3-10 Male	NEX10-Male	≤ -159 (-161 typical)
NMNMMS14F-XXXXFFP	N-Male	NEX10-Male	≤ -159 (-161 typical)
NFNMRS14F-XXXXFFP	N-Female	N-Male Right Angle	≤ -159
NMRMRS14F-XXXXFFP	N-Male Right Angle	N-Male Right Angle	≤ -159
NMNMMS14F-XXXXFFP	N-Male	NEX10 Male	≤ -159 (-161 typical)
43NMNMMS14F-XXXXFFP	4.3-10 Male	NEX10 Male	≤ -159 (-161 typical)
43MNMNMP14F-XXXXFFP	4.3-10 Male Handcrew	NER10 Male Push/Pull	≤ -159 (-161 typical)
43M43MHS14F-XXXXFFP	4.3-10 Male	4.3-10 Male Handcrew	≤ -159 (-161 typical)
43MH43FS14F-XXXXFFP	4.3-10 Male Handcrew	4.3-10 Female	≤ -159 (-161 typical)
43MHMFS14F-XXXXFFP	4.3-10 Male Handcrew	N-Female	≤ -159
43MHNMMS14F-XXXXFFP	4.3-10 Male Handcrew	N-Male	≤ -159
43MH43MRS14F-XXXXFFP	4.3-10 Male Handcrew	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7MR43MHS14F-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Handcrew	≤ -159 (-161 typical)
7M43MHS14F-XXXXFFP	7-16 Male	4.3-10 Male Handcrew	≤ -159 (-161 typical)
7F43MHS14F-XXXXFFP	7-16 Female	4.3-10 Male Handcrew	≤ -159 (-161 typical)
43MNMNMS14F-XXXXFFP	4.3-10 Male Handcrew	NER10 Male	≤ -159 (-161 typical)
43MNMMP14F-XXXXFFP	4.3-10 Male	NER10 Male Push/Pull	≤ -159 (-161 typical)
7MRNMMP14F-XXXXFFP	7-16 Male Right Angle	NER10 Male Push/Pull	≤ -159 (-161 typical)
7MNMMP14F-XXXXFFP	7-16 Male	NER10 Male Push/Pull	≤ -159 (-161 typical)
7FNMP14F-XXXXFFP	7-16 Female	NER10 Male Push/Pull	≤ -159 (-161 typical)
43FNMP14F-XXXXFFP	4.3-10 Female	NER10 Male Push/Pull	≤ -159 (-161 typical)
NFNMP14F-XXXXFFP	N-Female	NER10 Male Push/Pull	≤ -159
4NMNMMP14F-XXXXFFP	N-Male	NER10 Male Push/Pull	≤ -159

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

External Document Links

- [Cable SCF14-50JFN](#)
- [Handling instruction](#)

Notes