



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.



7M7MRS14-0100FFP 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		Black Polyethylene, Halogen-free acc. IEC 60754-1 and -2

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)	-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	≤ see table below
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JUMPER-S14-FFP

CELLFLEX® Factory-Fit Jumper Assembly, 1/4" Superflexible Foam

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)



Combinations			
Model Name	Connector 1	Connector 2	Intermodulation (PIM)
7M7MS14-XXXXFFP	7-16 Male	7-16 Male	≤ -159 (-161 typical)
7M7FS14-XXXXFFP	7-16 Male	7-16 Female	≤ -159 (-161 typical)
7M7MS14-XXXXRFFP	7-16 Male	7-16 Male Right Angle	≤ -159 (-161 typical)
7M43MS14-XXXXFFP	7-16 Male	4.3-10 Male	≤ -159 (-161 typical)
7M43FS14-XXXXFFP	7-16 Male	4.3-10 Female	≤ -159 (-161 typical)
7M43MS14-XXXXRFFP	7-16 Male	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7MNMMS14-XXXXFFP	7-16 Male	N-Male	≤ -159
7MNFMS14-XXXXFFP	7-16 Male	N-Female	≤ -159
7MNMRS14-XXXXRFFP	7-16 Male	N-Male Right Angle	≤ -159
7F7FS14-XXXXFFP	7-16 Female	7-16 Female	≤ -159 (-161 typical)
7F7MS14-XXXXRFFP	7-16 Female	7-16 Male Right Angle	≤ -159 (-161 typical)
7F43MS14-XXXXFFP	7-16 Female	4.3-10 Male	≤ -159 (-161 typical)
7F43FS14-XXXXFFP	7-16 Female	4.3-10 Female	≤ -159 (-161 typical)
7F43MS14-XXXXRFFP	7-16 Female	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7FNMMS14-XXXXFFP	7-16 Female	N-Male	≤ -159
7FNFMS14-XXXXFFP	7-16 Female	N-Female	≤ -159
7MR7MS14-XXXXRFFP	7-16 Male Right Angle	7-16 Male Right Angle	≤ -159 (-161 typical)
7MR43MS14-XXXXRFFP	7-16 Male Right Angle	4.3-10 Male	≤ -159 (-161 typical)
7MR43FS14-XXXXRFFP	7-16 Male Right Angle	4.3-10 Female	≤ -159 (-161 typical)
7MR43MS14-XXXXRRFFP	7-16 Male Right Angle	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7MRNMMS14-XXXXRFFP	7-16 Male Right Angle	N-Male	≤ -159
7MRNFMS14-XXXXRFFP	7-16 Male Right Angle	N-Female	≤ -159
43M43MS14-XXXXFFP	4.3-10 Male	4.3-10 Male	≤ -159 (-161 typical)
43M43FS14-XXXXFFP	4.3-10 Male	4.3-10 Female	≤ -159 (-161 typical)
43M43MS14-XXXXRFFP	4.3-10 Male	4.3-10 Male Right Angle	≤ -159 (-161 typical)
43MNMMS14-XXXXRFFP	4.3-10 Male	N-Male	≤ -159
43MNFMS14-XXXXRFFP	4.3-10 Male	N-Female	≤ -159
43MNMRS14-XXXXRFFP	4.3-10 Male	N-Male Right Angle	≤ -159
43F43FS14-XXXXFFP	4.3-10 Female	4.3-10 Female	≤ -159 (-161 typical)
43F43MS14-XXXXRFFP	4.3-10 Female	4.3-10 Male Right Angle	≤ -159 (-161 typical)
43FNMS14-XXXXRFFP	4.3-10 Female	N-Male	≤ -159
43FNFMS14-XXXXRFFP	4.3-10 Female	N-Female	≤ -159
43MR43MS14-XXXXRFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle	≤ -159 (-161 typical)
43MRNMMS14-XXXXRFFP	4.3-10 Male Right Angle	N-Male	≤ -159
43MRNFMS14-XXXXRFFP	4.3-10 Male Right Angle	N-Female	≤ -159
NMNMMS14-XXXXRFFP	N-Male	N-Male	≤ -159
NMNFMS14-XXXXRFFP	N-Male	N-Female	≤ -159
NMNMRS14-XXXXRFFP	N-Male	N-Male Right Angle	≤ -159
NFNFMS14-XXXXRFFP	N-Female	N-Female	≤ -159
43MNMMS14-XXXXRFFP	4.3-10 Female	NEX10-Male	≤ -159 (-161 typical)
NMNMMS14-XXXXRFFP	N-Male	NEX10-Male	≤ -159 (-161 typical)
NFNMRS14-XXXXRFFP	N-Female	N-Male Right Angle	≤ -159
NMRNMRS14-XXXXRFFP	N-Male Right Angle	N-Male Right Angle	≤ -159
NMNMMS14-XXXXRFFP	N-Male	NEX10 Male	≤ -159 (-161 typical)
43MNMMS14-XXXXRFFP	4.3-10 Male	NEX10 Male	≤ -159 (-161 typical)
43MNMMS14-XXXXRFFP	4.3-10 Male Handcrew	NEX10 Male Push/Pull	≤ -159 (-161 typical)
43M43MS14-XXXXRFFP	4.3-10 Male	4.3-10 Male Handcrew	≤ -159 (-161 typical)
43MH43FS14-XXXXRFFP	4.3-10 Male Handcrew	4.3-10 Female	≤ -159 (-161 typical)
43MNMMS14-XXXXRFFP	4.3-10 Male Handcrew	N-Female	≤ -159
43MNMMS14-XXXXRFFP	4.3-10 Male Handcrew	N-Male	≤ -159
43MH43MS14-XXXXRFFP	4.3-10 Male Handcrew	4.3-10 Male Right Angle	≤ -159 (-161 typical)
7MR43MS14-XXXXRFFP	7-16 Male Right Angle	4.3-10 Male Handcrew	≤ -159 (-161 typical)
7M43MS14-XXXXRFFP	7-16 Male	4.3-10 Male Handcrew	≤ -159 (-161 typical)
7F43MS14-XXXXRFFP	7-16 Female	4.3-10 Male Handcrew	≤ -159 (-161 typical)
43MNMMS14-XXXXRFFP	4.3-10 Male Handcrew	NEX10 Male	≤ -159 (-161 typical)
43MNMMS14-XXXXRFFP	4.3-10 Male	NEX10 Male Push/Pull	≤ -159 (-161 typical)
7MRNMMS14-XXXXRFFP	7-16 Male Right Angle	NEX10 Male Push/Pull	≤ -159 (-161 typical)
7MNMMS14-XXXXRFFP	7-16 Male	NEX10 Male Push/Pull	≤ -159 (-161 typical)
7FNMMS14-XXXXRFFP	7-16 Female	NEX10 Male Push/Pull	≤ -159 (-161 typical)
43FNMMS14-XXXXRFFP	4.3-10 Female	NEX10 Male Push/Pull	≤ -159 (-161 typical)
NFNMMS14-XXXXRFFP	N-Female	NEX10 Male Push/Pull	≤ -159
4NMNMMS14-XXXXRFFP	N-Male	NEX10 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 SCF14-50J](#)
- [Handling instruction](#)

Notes