



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	≤ -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	>28.0 (≤1.08)	>28.0 (≤1.08)
>1000-1700	>28.0 (≤1.08)	>26.4 (≤1.10)
>1700-2200	>28.0 (≤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	>28.0 (≤1.08)	>28.0 (≤1.08)
>1000-1700	>26.4 (≤1.10)	>24.0 (≤1.14)
>1700-2200	>26.4 (≤1.10)	>24.0 (≤1.14)
>2200-2700	>24.9 (≤1.12)	>24.0 (≤1.14)
>2700-3800	>23.1 (≤1.15)	>19.1 (≤1.25)
>3800-5000	>19.1 (≤1.25)	>18.2 (≤1.28)
>5000-6000	>17.7 (≤1.30)	>16.0 (≤1.38)

COMBINATIONS

Model Name	Connector 1	Connector 2
7M7MS14-XXXXFFP	7-16 Male	7-16 Male
7M7FS14-XXXXFFP	7-16 Male	7-16 Female
7M7MRS14-XXXXFFP	7-16 Male	7-16 Male Right Angle
7M43MS14-XXXXFFP	7-16 Male	4.3-10 Male
7M43FS14-XXXXFFP	7-16 Male	4.3-10 Female
7M43MRS14-XXXXFFP	7-16 Male	4.3-10 Male Right Angle
7MNMMS14-XXXXFFP	7-16 Male	N-Male
7MNFMS14-XXXXFFP	7-16 Male	N-Female
7MNMRS14-XXXXFFP	7-16 Male	N-Male Right Angle
7F7FS14-XXXXFFP	7-16 Female	7-16 Female
7F7MRS14-XXXXFFP	7-16 Female	7-16 Male Right Angle
7F43MS14-XXXXFFP	7-16 Female	4.3-10 Male
7F43FS14-XXXXFFP	7-16 Female	4.3-10 Female
7F43MRS14-XXXXFFP	7-16 Female	4.3-10 Male Right Angle
7FNMS14-XXXXFFP	7-16 Female	N-Male
7FNFS14-XXXXFFP	7-16 Female	N-Female
7MR7MRS14-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle
7MR43MS14-XXXXFFP	7-16 Male Right Angle	4.3-10 Male
7MR43FS14-XXXXFFP	7-16 Male Right Angle	4.3-10 Female
7MR43MRS14-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle
7MRNMS14-XXXXFFP	7-16 Male Right Angle	N-Male
7MRNFMS14-XXXXFFP	7-16 Male Right Angle	N-Female
43M43MS14-XXXXFFP	4.3-10 Male	4.3-10 Male
43M43FS14-XXXXFFP	4.3-10 Male	4.3-10 Female
43M43MRS14-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle
43MNMMS14-XXXXFFP	4.3-10 Male	N-Male
43MNFMS14-XXXXFFP	4.3-10 Male	N-Female
43MNMRS14-XXXXFFP	4.3-10 Male	N-Male Right Angle
43F43FS14-XXXXFFP	4.3-10 Female	4.3-10 Female



JUMPER-S14-FFP

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

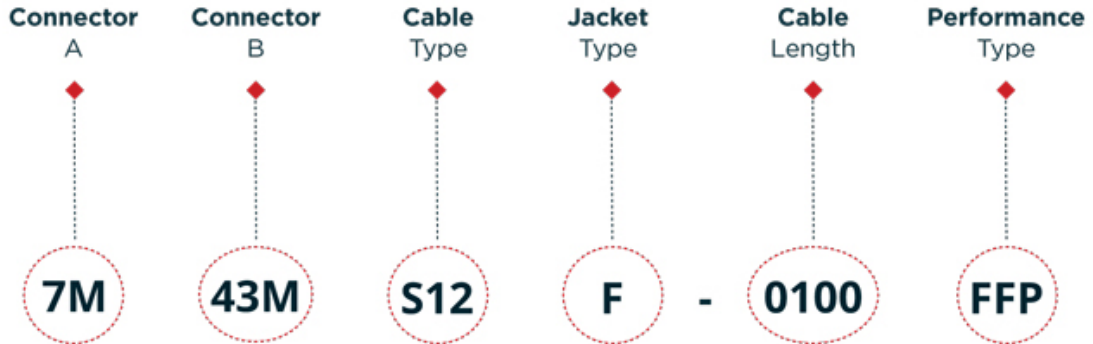
43F43MRS14-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle
43FNMS14-XXXXFFP	4.3-10 Female	N-Male
43FNFS14-XXXXFFP	4.3-10 Female	N-Female
43MR43MRS14-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle
43MRNMS14-XXXXFFP	4.3-10 Male Right Angle	N-Male
43MRNFS14-XXXXFFP	4.3-10 Male Right Angle	N-Female
NMNMS14-XXXXFFP	N-Male	N-Male
NMNFS14-XXXXFFP	N-Male	N-Female
NMNMRS14-XXXXFFP	N-Male	N-Male Right Angle
NFNFS14-XXXXFFP	N-Female	N-Female
43FNXMS14-XXXXFFP	4.3-10 Female	NEX10-Male
NMNXMS14-XXXXFFP	N-Male	NEX10-Male
NFNMRS14-XXXXFFP	N-Female	N-Male Right Angle
NMRNMRS14-XXXXFFP	N-Male Right Angle	N-Male Right Angle
43MNXMS14-XXXXFFP	4.3-10 Male	NEX10 Male
43MHNXMPS14-XXXXFFP	4.3-10 Male Handscrew	NEX10 Male Push/Pull
43M43MHS14-XXXXFFP	4.3-10 Male	4.3-10 Male Handscrew
43MH43FS14-XXXXFFP	4.3-10 Male Handscrew	4.3-10 Female
43MHNFS14-XXXXFFP	4.3-10 Male Handscrew	N-Female
43MHNMHS14-XXXXFFP	4.3-10 Male Handscrew	N-Male
43MH43MRHS14-XXXXFFP	4.3-10 Male Handscrew	4.3-10 Male Right Angle
7MR43MHS14-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Handscrew
7M43MHS14-XXXXFFP	7-16 Male	4.3-10 Male Handscrew
7F43MHS14-XXXXFFP	7-16 Female	4.3-10 Male Handscrew
43MHNXMS14-XXXXFFP	4.3-10 Male Handscrew	NEX10 Male
43MNXMPS14-XXXXFFP	4.3-10 Male	NEX10 Male Push/Pull
7MRNXMPS14-XXXXFFP	7-16 Male Right Angle	NEX10 Male Push/Pull
7MNXMPS14-XXXXFFP	7-16 Male	NEX10 Male Push/Pull
7FNXMPS14-XXXXFFP	7-16 Female	NEX10 Male Push/Pull
43FNXMPS14-XXXXFFP	4.3-10 Female	NEX10 Male Push/Pull
NFNXMPS14-XXXXFFP	N-Female	NEX10 Male Push/Pull
NMNXMPS14-XXXXFFP	N-Male	NEX10 Male Push/Pull
XXXX in the model name is the length; as well for jumper with boots acc. to nomenclature		
43MB43MBS14-XXXXFFP	4.3-10 Male + Boot	4.3-10 Male + Boot
7MB7MBS14-XXXXFFP	7-16 Male + Boot	7-16 Male + Boot
NMBNMBS14-XXXXFFP	N-Male + Boot	N-Male + Boot



JUMPER-S14-FFP

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

RFS JUMPER MODEL NOMENCLATURE



7M & 43M CONNECTORS A & B	
7M	7-16 Male
7F	7-16 Female
7MR	7-16 Male Right Angle
43M	4.3-10 Male
43F	4.3-10 Female
43MH	4.3-10 Male Handscrew
43MP	4.3-10 Male Push Pull
43MR	4.3-10 Male Right Angle
NM	N-Type Male
NF	N-Type Female
NMR	N-Type Male Right Angle
NXM	NEX10 Male
NXMP	NEX10 Male Push Pull
7MB	7-16 Male with Weatherboots
43MB	4.3-10 Male with Weatherboots
NMB	N-Type Male with Weatherboots

S12 CABLE TYPE	
L38	3/8" Low Loss Coax
L12	1/2" Low Loss Coax
S14	1/4" Superflexible Coax
S38	3/8" Superflexible Coax
S12	1/2" Superflexible Coax

F JACKET TYPE	
F	JFN Flame Retardant
Blank	PE

0100 CABLE LENGTH*	
0100	1 meter
0200	2 meter
0250	2.5 meter
1000	10 meter
1500	15 meter
030	3 feet
060	6 feet
100	10 feet
150	15 feet
200	20 feet

FFP JUMPER PERFORMANCE	
FFP	Factory-Fit Premium
FFPB	Factory-Fit Premium; Bird-Proof Option
FFS	Factory-Fit Standard
UPM	Ultra PIM Performance

NOTES:
 * 4 digits indicate meter length, 3 digits indicate feet length
 Others lengths available on request

External Document Links
[Cable SCF14-50J](#)
[Handling instruction](#)
[Jumper Brochure](#)

Notes