



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.



7M7MRS38-0100FFP 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		3/8" 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
7M7MS38-XXXXFFP	7-16 Male	7-16 Male
7M7FS38-XXXXFFP	7-16 Male	7-16 Female
7M7MRS38-XXXXFFP	7-16 Male	7-16 Male Right Angle
7M43MS38-XXXXFFP	7-16 Male	4.3-10 Male
7M43FS38-XXXXFFP	7-16 Male	4.3-10 Female
7M43MRS38-XXXXFFP	7-16 Male	4.3-10 Male Right Angle
7MNM38-XXXXFFP	7-16 Male	N-Male
7MNF38-XXXXFFP	7-16 Male	N-Female
7MNMRS38-XXXXFFP	7-16 Male	N-Male Right Angle
7F7FS38-XXXXFFP	7-16 Female	7-16 Female
7F7MRS38-XXXXFFP	7-16 Female	7-16 Male Right Angle
7F43MS38-XXXXFFP	7-16 Female	4.3-10 Male
7F43FS38-XXXXFFP	7-16 Female	4.3-10 Female
7F43MRS38-XXXXFFP	7-16 Female	4.3-10 Male Right Angle
7FNMS38-XXXXFFP	7-16 Female	N-Male
7FNFS38-XXXXFFP	7-16 Female	N-Female
7MR7MRS38-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle
7MR43MS38-XXXXFFP	7-16 Male Right Angle	4.3-10 Male
7MR43FS38-XXXXFFP	7-16 Male Right Angle	4.3-10 Female
7MR43MRS38-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle
7MRNMS38-XXXXFFP	7-16 Male Right Angle	N-Male
7MRNFS38-XXXXFFP	7-16 Male Right Angle	N-Female
43M43MS38-XXXXFFP	4.3-10 Male	4.3-10 Male
43M43FS38-XXXXFFP	4.3-10 Male	4.3-10 Female
43M43MRS38-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle
43MNMS38-XXXXFFP	4.3-10 Male	N-Male
43MNF38-XXXXFFP	4.3-10 Male	N-Female
43MNMRS38-XXXXFFP	4.3-10 Male	N-Male Right Angle
43F43FS38-XXXXFFP	4.3-10 Female	4.3-10 Female



JUMPER-S38-FFP

CELLFLEX® Factory-Fit Jumper Assembly, 3/8" Superflexible Foam

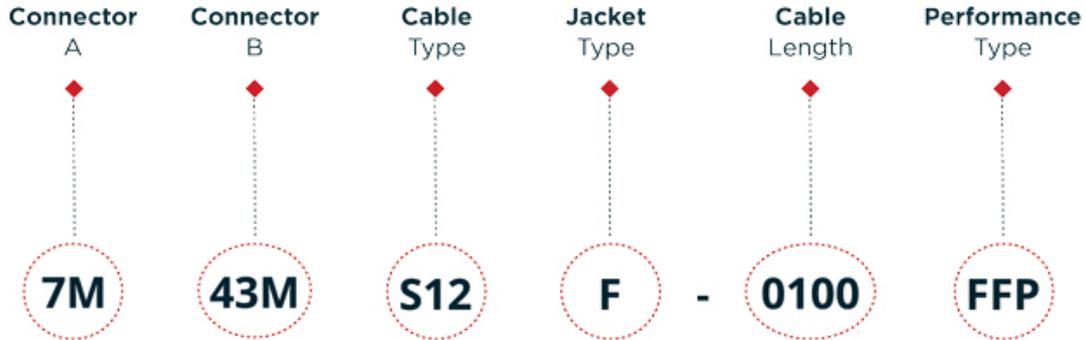
43F43MRS38-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle
43FNMS38-XXXXFFP	4.3-10 Female	N-Male
43FNFS38-XXXXFFP	4.3-10 Female	N-Female
43MR43MRS38-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle
43MRNMS38-XXXXFFP	4.3-10 Male Right Angle	N-Male
43MRNFS38-XXXXFFP	4.3-10 Male Right Angle	N-Female
NMNMS38-XXXXFFP	N-Male	N-Male
NMNFS38-XXXXFFP	N-Male	N-Female
NMNMRS38-XXXXFFP	N-Male	N-Male Right Angle
NFNFS38-XXXXFFP	N-Female	N-Female
NFNMRS38-XXXXFFP	N-Female	N-Male Right Angle
NMRNMRS38-XXXXFFP	N-Male Right Angle	N-Male Right Angle
NMNXMS38-XXXXFFP	N-Male	NEX10 Male
43MNXMS38-XXXXFFP	4.3-10 Male	NEX10 Male
7M43MPS38-XXXXFFP	7-16 Male	4.3-10 Male Push/Pull
7F43MPS38-XXXXFFP	7-16 Female	4.3-10 Male Push/Pull
7MR43MPS38-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Push/Pull
43M43MPS38-XXXXFFP	4.3-10 Male	4.3-10 Male Push/Pull
43MP43FS38-XXXXFFP	4.3-10 Male Push/Pull	4.3-10 Female
43MP43MRS38-XXXXFFP	4.3-10 Male Push/Pull	4.3-10 Male Right Angle
43MPNMS38-XXXXFFP	4.3-10 Male Push/Pull	N-Male
43MPNFS38-XXXXFFP	4.3-10 Male Push/Pull	N-Female
43MPNMRS38-XXXXFFP	4.3-10 Male Push/Pull	N-Male Right Angle
43MPNXMS38-XXXXFFP	4.3-10 Male Push/Pull	NEX10 Male
XXXX in the model name is the length; as well for jumper with boots acc. to nomenclature		
43MB43MBS38-XXXXFFP	4.3-10 Male + Boot	4.3-10 Male + Boot
7MB7MBS38-XXXXFFP	7-16 Male + Boot	7-16 Male + Boot
NMBNMBBS38-XXXXFFP	N-Male + Boot	N-Male + Boot



JUMPER-S38-FFP

CELLFLEX® Factory-Fit Jumper Assembly, 3/8" 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
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 SCF38-50J](#)
- [Handling instruction](#)
- [Jumper Brochure](#)

Notes