



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 standard VSWR and IM levels on request.



**FEATURES / BENEFITS**

- **Stable standard 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 (Standard)
Dielectric		PTFE
Gasket		Silicone rubber
Jacket		Black Polyethylene, Halogen-free acc. IEC 60754-1 and -2

**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 )



SCF12 FFS			
Frequency	Straight/Straight	Straight/Right Angle	Right Angle/Right Angle
[MHz]	[dB] (VSWR)	[dB] (VSWR)	[dB] (VSWR)
10-1000	≥26 (≤1.1)	≥23 (≤1.15)	≥23 (≤1.15)
>1000-1700	≥26 (≤1.1)	≥23 (≤1.15)	≥23 (≤1.15)
>1700-2200	≥26 (≤1.1)	≥23 (≤1.15)	≥23 (≤1.15)
>2200-2700	≥25 (≤1.12)	≥22 (≤1.17)	≥22 (≤1.17)

Combinations			
Model Name	Connector 1	Connector 2	Intermodulation (PIM)
7M7MS12-XXXXFFS	7-16 Male	7-16 Male	≤ -155
7M7FS12-XXXXFFS	7-16 Male	7-16 Female	≤ -155
7M7MRS12-XXXXFFS	7-16 Male	7-16 Male Right Angle	≤ -155
7M43MS12-XXXXFFS	7-16 Male	4.3-10 Male	≤ -155
7M43FS12-XXXXFFS	7-16 Male	4.3-10 Female	≤ -155
7M43MRS12-XXXXFFS	7-16 Male	4.3-10 Male Right Angle	≤ -155
7MNMS12-XXXXFFS	7-16 Male	N-Male	≤ -155
7MNF12-XXXXFFS	7-16 Male	N-Female	≤ -155
7MNMRS12-XXXXFFS	7-16 Male	N-Male Right Angle	≤ -155
7F7FS12-XXXXFFS	7-16 Female	7-16 Female	≤ -155
7F7MRS12-XXXXFFS	7-16 Female	7-16 Male Right Angle	≤ -155
7F43MS12-XXXXFFS	7-16 Female	4.3-10 Male	≤ -155
7F43FS12-XXXXFFS	7-16 Female	4.3-10 Female	≤ -155
7F43MRS12-XXXXFFS	7-16 Female	4.3-10 Male Right Angle	≤ -155
7FNMS12-XXXXFFS	7-16 Female	N-Male	≤ -155
7FNF12-XXXXFFS	7-16 Female	N-Female	≤ -155
7MR7MRS12-XXXXFFS	7-16 Male Right Angle	7-16 Male Right Angle	≤ -155
7MR43MS12-XXXXFFS	7-16 Male Right Angle	4.3-10 Male	≤ -155
7MR43FS12-XXXXFFS	7-16 Male Right Angle	4.3-10 Female	≤ -155
7MR43MRS12-XXXXFFS	7-16 Male Right Angle	4.3-10 Male Right Angle	≤ -155
7MRNMS12-XXXXFFS	7-16 Male Right Angle	N-Male	≤ -155
7MRNF12-XXXXFFS	7-16 Male Right Angle	N-Female	≤ -155
43M43MS12-XXXXFFS	4.3-10 Male	4.3-10 Male	≤ -155
43M43FS12-XXXXFFS	4.3-10 Male	4.3-10 Female	≤ -155
43M43MRS12-XXXXFFS	4.3-10 Male	4.3-10 Male Right Angle	≤ -155
43MNMMS12-XXXXFFS	4.3-10 Male	N-Male	≤ -155
43MNF12-XXXXFFS	4.3-10 Male	N-Female	≤ -155
43MNMRS12-XXXXFFS	4.3-10 Male	N-Male Right Angle	≤ -155
43F43FS12-XXXXFFS	4.3-10 Female	4.3-10 Female	≤ -155
43F43MRS12-XXXXFFS	4.3-10 Female	4.3-10 Male Right Angle	≤ -155
43FNMS12-XXXXFFS	4.3-10 Female	N-Male	≤ -155
43FNF12-XXXXFFS	4.3-10 Female	N-Female	≤ -155
43MR43MRS12-XXXXFFS	4.3-10 Male Right Angle	4.3-10 Male Right Angle	≤ -155
43MRNMS12-XXXXFFS	4.3-10 Male Right Angle	N-Male	≤ -155
43MRNF12-XXXXFFS	4.3-10 Male Right Angle	N-Female	≤ -155
NMNMMS12-XXXXFFS	N-Male	N-Male	≤ -155
NMNF12-XXXXFFS	N-Male	N-Female	≤ -155
NMNMRS12-XXXXFFS	N-Male	N-Male Right Angle	≤ -155
NFNFS12-XXXXFFS	N-Female	N-Female	≤ -155
NFNMS12-XXXXFFS	N-Female	N-Male Right Angle	≤ -155
NMNMRS12-XXXXFFS	N-Male Right Angle	N-Male Right Angle	≤ -155



Sheet 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
NMM	NEX10 Male
7MB	7-16 Male with weatherboots
43MB	4.3-10 Male with weatherboots
NMB	N-Type Male with weatherboots

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

Sheet Description	Jack
F	JFN Flame Retardant
Blank	FE

Sheet Description	Length
0100	1m
0200	2m
0250	2.50m
3000	10m
1500	15m
030	3ft
060	6ft
100	10ft
150	15ft
200	20ft

Sheet Description	Performance
FFP	Factory Fit Premium Ultra PIM Performance
UFM	Factory Fit Premium Ultra PIM Performance
FFS	Factory Fit Standard

4 digits indicate meter length, 3 digits indicate feet length

Nomenclature

XXXX in the model name is the length

External Document Links



Cable SCF12-50J  
Handling instruction

Notes