PRODUCT DATASHEET

JUMPER-S12-FFP

CELLFLEX® Factory-Fit Jumper Assembly, 1/2" Superflexible Foam,

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.



7M43MS12-0600FFP 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		1/2" Superflexible Foam
Jumper Type		Factory-Fit (Premium)
Dielectric		Foam Polyethylene
Gasket		Silicone rubber
Jacket		Black Polyethylene, Halogen-free acc. IEC 60754-1 and -2

MECHANICAL SPECIFICATIONS

Minimum Bend Radius	mm (in)	32 (1.25)

TESTING AND ENVIRONMENTAL

Sealing class		IP68

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)
Peak Power Rating	kW	8.1
RF Peak Voltage	Volts	900

JUMPER RETURN LOSS (VSWR), 0-30FT LENGTH

Frequency [MHz]	Straight / Straight [dB] (VSWR)	Right Angle / Right Angle [dB] (VSWR)
0 - 1000	>28.3 (≤1.08)	>28.3 (≤1.08)
>1000-1700	>28.3 (≤1.08)	>26.4 (≤1.10)

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

>1700-2200	>28.3 (≤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 RETURN LOSS (VSWR), 31-60FT LENGTH

Frequency [MHz]	Straight / Straight [dB] (VSWR)	Right Angle / Right Angle [dB] (VSWR)
0 - 1000	>28.3 (≤1.08)	>28.3 (≤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
7M7MS12-XXXXFFP	7-16 Male	7-16 Male
7M7FS12-XXXXFFP	7-16 Male	7-16 Female
7M7MRS12-XXXXFFP	7-16 Male	7-16 Male Right Angle
7M43MS12-XXXXFFP	7-16 Male	4.3-10 Male
7M43FS12-XXXXFFP	7-16 Male	4.3-10 Female
7M43MRS12-XXXXFFP	7-16 Male	4.3-10 Male Right Angle
7MNMS12-XXXXFFP	7-16 Male	N-Male
7MNFS12-XXXXFFP	7-16 Male	N-Female
7MNMRS12-XXXXFFP	7-16 Male	N-Male Right Angle
7F7FS12-XXXXFFP	7-16 Female	7-16 Female
7F7MRS12-XXXXFFP	7-16 Female	7-16 Male Right Angle
7F43MS12-XXXXFFP	7-16 Female	4.3-10 Male
7F43FS12-XXXXFFP	7-16 Female	4.3-10 Female
7F43MRS12-XXXXFFP	7-16 Female	4.3-10 Male Right Angle
7FNMS12-XXXXFFP	7-16 Female	N-Male
7FNFS12-XXXXFFP	7-16 Female	N-Female
7FNMRS12-XXXXFFP	7-16 Female	N-Male Right Angle
7MR7MRS12-XXXXFFP	7-16 Male Right Angle	7-16 Male Right Angle
7MR43MS12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male
7MR43FS12-XXXXFFP	7-16 Male Right Angle	4.3-10 Female

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7MR43MRS12-XXXXFFP	7-16 Male Right Angle	4.3-10 Male Right Angle
7MRNMS12-XXXXFFP	7-16 Male Right Angle	N-Male
7MRNFS12-XXXXFFP	7-16 Male Right Angle	N-Female
7MRNMRS12-XXXXFFP	7-16 Male Right Angle	N-Male Right Angle
43M43MS12-XXXXFFP	4.3-10 Male	4.3-10 Male
43M43FS12-XXXXFFP	4.3-10 Male	4.3-10 Female
43M43MRS12-XXXXFFP	4.3-10 Male	4.3-10 Male Right Angle
43MNMS12-XXXXFFP	4.3-10 Male	N-Male
43MNFS12-XXXXFFP	4.3-10 Male	N-Female
43MNMRS12-XXXXFFP	4.3-10 Male	N-Male Right Angle
43F43FS12-XXXXFFP	4.3-10 Female	4.3-10 Female
43F43MRS12-XXXXFFP	4.3-10 Female	4.3-10 Male Right Angle
43FNMS12-XXXXFFP	4.3-10 Female	N-Male
43FNFS12-XXXXFFP	4.3-10 Female	N-Female
43FNMRS12-XXXXFFP	4.3-10 Female	N-Male Right Angle
43MR43MRS12-XXXXFFP	4.3-10 Male Right Angle	4.3-10 Male Right Angle
43MRNMS12-XXXXFFP	4.3-10 Male Right Angle	N-Male
43MRNFS12-XXXXFFP	4.3-10 Male Right Angle	N-Female
43MRNMRS12-XXXXFFP	4.3-10 Male Right Angle	N-Male Right Angle
NMNMS12-XXXXFFP	N-Male	N-Male
NMNFS12-XXXXFFP	N-Male	N-Female
NMNMRS12-XXXXFFP	N-Male	N-Male Right Angle
NFNFS12-XXXXFFP	N-Female	N-Female
NFNMRS12-XXXXFFP	N-Female	N-Male Right Angle
NMRNMRS12-XXXXFFP	N-Male Right Angle	N-Male Right Angle
43FNXMS12-XXXXFFP	4.3-10 Female	NEX10 Male
43MNXMS12-XXXXFFP	4.3-10 Male	NEX10 Male
43MRNXMS12-XXXXFFP	4.3-10 Male Right Angle	NEX10 Male
7FNXMS12-XXXXFFP	7-16 Female	NEX10 Male
7MNXMS12-XXXXFFP	7-16 Male	NEX10 Male
7MRNXMS12-XXXXFFP	7-16 Male Right Angle	NEX10 Male
NFNXMS12-XXXXFFP	N-Female	NEX10 Male
NMNXMS12-XXXXFFP	N-Male	NEX10 Male
NMRNXMS12-XXXXFFP	N-Male Right Angle	NEX10 Male
XXXX in the model name is the length; as well for jumper with boots acc. to nomenclature	(Boot examples below)	(Boot examples below)
43MB43MBS12-XXXXFFP	4.3-10 Male + Boot	4.3-10 Male + Boot

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7MB7MBS12-XXXXFFP	7-16 Male + Boot	7-16 Male + Boot
NMBNMBS12-XXXXFFP	N-Male + Boot	N-Male + Boot

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RFS JUMPER MODEL NOMENCLATURE

Connector A	Connector B	Cable Type	Jacket Type		Cable Length	Performance Type
7M	43M	S12	F	-	0100	FFP

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 lengt
Others lengths available on request

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External Document Links
Cable SCF12-50J
Handling instruction
Jumper Brochure

Notes

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