PRODUCT DATASHEET

# JUMPER-L38-FFP

CELLFLEX® Factory-Fit Jumper Assembly, 3/8" Low Loss 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.



7M7MRL38-0100FFP 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" Low Loss 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) | 25 (0.98) |

### 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** | >28.0 (≤1.08) | >28.0 (≤1.08) |
| **>1000-1700** | >28.0 (≤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** | >28.0 (≤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 RETURN LOSS (VSWR), 31-60FT LENGTH

| **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 |
|---|---|---|
| **7MR43ML38-XXXXFFP** | 7-16 Male Right Angle | 4.3-10 Male |
| **43MR43ML38-XXXXFFP** | 4.3-10 Male Right Angle | 4.3-10 Male |



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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



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

External Document Links
Cable LCF38-50J
Handling instruction
Jumper Brochure

Notes



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