



## CELLFLEX® Factory-Fit Jumper Assembly, 1/2" Superflexible Foam, Flame Retardant, 7-16 DIN Male Right Angle / 4.3-10 Male, 1.0 m

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.



shows 7M43MS12-0100FFP for illustration

### 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)   |
| Connector A                |  | 7-16 DIN Male Right Angle   |
| Center Contact Connector A |  | Brass, Silver plated  |
| Outer Contact Connector A  |  | Brass, Trimetal plated  |
| Coupling Nut Connector A   |  | Hexagon nut, Nickel plated  |
| Connector B                |  | 4.3-10 Male   |
| Center Contact Connector B |  | Brass, Silver plated  |
| Outer Contact Connector B  |  | Brass, Trimetal plated  |
| Coupling Nut Connector B   |  | Hexagon nut, Nickel plated  |
| Dielectric                 |  | PTFE  |
| Gasket                     |  | Silicone rubber   |
| Jacket                     |  | JFN: halogen free, non corrosive, flame retardant, low smoke, polyolefin, Test methods for fire behaviour of cable: IEC 60754-1/-2 halogen free, non corrosive, IEC 61034 low smoke emission, IEC 60332-1 flame retardant |

#### MECHANICAL SPECIFICATIONS

|                     |         |           |
|---------------------|---------|-----------|
| Length              | m (ft)  | 1 (3.3)   |
| Minimum Bend Radius | mm (in) | 32 (1.25) |

#### TESTING AND ENVIRONMENTAL

|               |  |      |
|---------------|--|------|
| Sealing class |  | IP68 |
|---------------|--|------|

#### ELECTRICAL SPECIFICATIONS

|                   |           |  |
|-------------------|-----------|--|
| Intermodulation   | dBc       | ≤ -159 (-161 typical)  |
| VSWR, Return Loss | VSWR (dB) | ≤ 1.052 (32) @ 10 - 1000 MHz<br>≤ 1.065 (30) @ 1000 - 1700 MHz<br>≤ 1.065 (30) @ 1700 - 2200 MHz<br>≤ 1.083 (28) @ 2200 - 2700 MHz |

#### 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) |

#### External Document Links

#### Notes

Cable SCF12-50JFN  
Handling instruction