



MULTIFLEX Jumper-Cable assemblies are the simple solution for those who like to have a very low loss transmission jumper with highest flexibility at both connection ends. RFS Technologies site kitting services offers a full assembled Jumper containing feeder-cable from LCF78-50 to LCF158-50, and Jumper cable such as super flexible SCF12-50 for both endings.

**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 on global basis in all applications.



7MRS12-7MRS12-L78J0200

**Technical features**

**JUMPER FEATURES**

<b>Application</b>		Main feed transitions to equipment, GPS lines, intended for outdoor usage (J) or indoor usage (JFN)
<b>Installation Temperature</b>	°C (°F)	-40 to 60 (-40 to 140 )
<b>Storage Temperature</b>	°C (°F)	-70 to 85 (-94 to 185 )
<b>Operation Temperature</b>	°C (°F)	-50 to 85 (-58 to 185 )
<b>Fire Performance Class</b>		Halogen free (B2ca option available)
<b>Sealing Class</b>		IP68
<b>RoHS</b>		Compliant to RoHS (EU) and CRoHS (China)
<b>Third Order Intermodulation</b>	dBc	-161 static & dynamic (-165 typical)
<b>Maximum Operating Frequency</b>	GHz	6

**CABLE DETAILS**

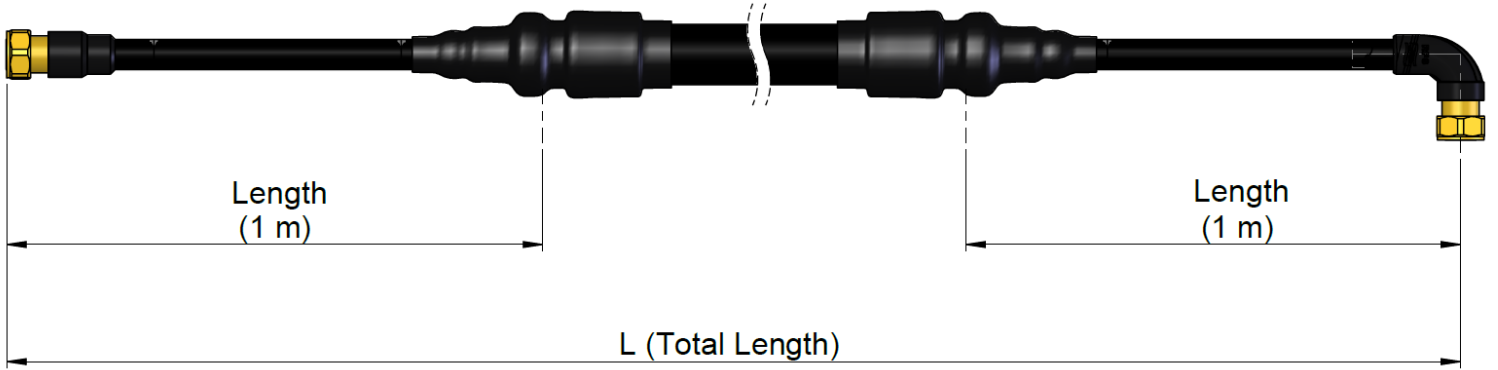
Cable Type	LCF78-50	SCF12-50
<b>Cable weight</b>	0.35 Kg/m (0.23 lb/ft)	0.135 Kg/m (0.09 lb/ft)
<b>Min bending radius, single bending</b>	120 mm (5 in)	32 mm (1.3 in)
<b>Min bending radius, multiple bending</b>	250 mm (10 in)	32 mm (1.3 in)
<b>bending moment</b>	13 Nm (10 lb*ft)	2.5 Nm (1.84 lb*ft)
<b>Tensile strength</b>	1440 Nm (324 lb)	650 Nm (146 lb)
<b>Recommended maximum clamp spacing</b>	0.8 / 1 m (2.75 / 3.25 ft)	0.3 / 0.5 m (1 / 1.64 ft)
<b>Velocity factor</b>	88 %	77 %
<b>Capacitance</b>	74 pF/m (22.5 pF/ft)	86 pF/m (26 pF/ft)



**MULTIFLEX-L78**

CELLFLEX®MULTIFLEX Jumper Assembly with low loss coax, LCF78 feeder

Jacket Spark tested up to:	8000 V RMS	5000 V RMS
Inner conductor DC resistance	2.04 Ω/Km (0.62 Ω/ 1000 ft)	2.97 Ω/Km (0.9 Ω/ 1000 ft)
Outer conductor DC resistance	2 Ω/Km (0.61 Ω/ 1000 ft)	6.5 Ω/Km (1.98 Ω/ 1000 ft)



Schematic sktech of a MULTIFLEX Jumper. The total assembly length "L" is defined by the variable length of the feeder cable plus 2 m jumper lengths.

**ELECTRICAL PERFORMANCE**

Insertion loss @20°C (A = L*A1 + 2*A2)	Adjustable LCF78 feeder (A1)	1m Jumpers (A2 )
Attenuation @1 GHz	0.04 dB/m	0.20 dB
Attenuation @2.2 GHz	0.062 dB/m	0.315 dB
Attenuation @2.7 GHz	0.070 dB/m	0.352 dB
Attenuation @3.8 GHz	0.086 dB/m	0.423 dB
Attenuation @6 GHz	0.113 dB/m	0.543 dB
Frequency [MHz]	Straight Con. dB (VSWR)	Angle Con. 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)



**MULTIFLEX-L78**

CELLFLEX®MULTIFLEX Jumper Assembly with low loss coax, LCF78 feeder

Connector A		Jumper-cable end A		Connector B		Jumper-cable end B		Cable Type		Jacket Type		Length	
<b>7MR</b>		<b>S12</b>		<b>43M</b>		<b>S12</b>		<b>L78</b>		<b>F</b>		<b>0400</b>	
<b>7MR</b> CONNECTOR A		<b>S12</b> CABLE for jumper end A		<b>43M</b> CONNECTOR B		<b>S12</b> CABLE for jumper end B		<b>78</b> Cable Size (LCF)		<b>F</b> JACKET TYPE		<b>0400</b> CABLE LENGTH*	
<b>7M</b>	7-16 Male	<b>L38</b>	3/8" Low Loss Coax	<b>7M</b>	7-16 Male	<b>L38</b>	3/8" Low Loss Coax	<b>78</b>	LCF78-50	<b>F</b>	JFN Flame Retardant	<b>0100</b>	1 meter
<b>7F</b>	7-16 Female	<b>L12</b>	1/2" Low Loss Coax	<b>7F</b>	7-16 Female	<b>L12</b>	1/2" Low Loss Coax	<b>114</b>	LCFS114-50	<b>J</b>	PE (J)	<b>0200</b>	2 meter
<b>7MR</b>	7-16 Male Right Angle	<b>S14</b>	1/4" Super exible Coax	<b>7MR</b>	7-16 Male Right Angle	<b>S14</b>	1/4" Super exible Coax	<b>158</b>	LCF158-50			<b>0250</b>	2.5 meter
<b>43M</b>	4.3-10 Male	<b>S38</b>	3/8" Super exible Coax	<b>43M</b>	4.3-10 Male	<b>S38</b>	3/8" Super exible Coax					<b>1000</b>	10 meter
<b>43F</b>	4.3-10 Female	<b>S12</b>	1/2" Super exible Coax	<b>43F</b>	4.3-10 Female	<b>S12</b>	1/2" Super exible Coax					<b>1500</b>	15 meter
<b>43MH</b>	4.3-10 Male Handscrew			<b>43MH</b>	4.3-10 Male Handscrew							<b>030</b>	3 feet
<b>43MP</b>	4.3-10 Male Push Pull			<b>43MP</b>	4.3-10 Male Push Pull							<b>060</b>	6 feet
<b>43MR</b>	4.3-10 Male Right Angle			<b>43MR</b>	4.3-10 Male Right Angle							<b>100</b>	10 feet

Modelname nomenclature

External Document Links

Notes