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 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

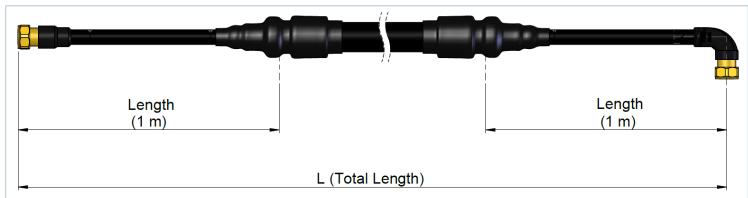
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Application		Main feed transitions to equipment, GPS lines, intended for outdoor usage (J) or indoor usage (JFN)			
Installation Temperature	°C (°F)	-40 to 60 (-40 to 140)			
Storage Temperature	°C (°F)	-70 to 85 (-94 to 185)			
Operation Temperature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

CABLE DETAILS

LCF78-50	SCF12-50	
0.35 Kg/m (0.23 lb/ft)	0.135 Kg/m (0.09 lb/ft)	
120 mm (5 in)	32 mm (1.3 in)	
250 mm (10 in)	32 mm (1.3 in)	
13 Nm (10 lb*ft)	2.5 Nm (1.84 lb*ft)	
1440 Nm (324 lb)	650 Nm (146 lb)	
0.8 / 1 m (2.75 / 3.25 ft)	0.3 / 0.5 m (1 / 1.64 ft)	
88 %	77 %	
74 pF/m (22.5 pF/ft)	86 pF/m (26 pF/ft)	
8000 V RMS	5000 V RMS	
2.04 Ω/Km (0.62 Ω/ 1000 ft)	2.97 Ω/Km (0.9 Ω/ 1000 ft)	
2 Ω/Km (0.61 Ω/ 1000 ft)	6.5 Ω/Km (1.98 Ω/ 1000 ft)	
	0.35 Kg/m (0.23 lb/ft) 120 mm (5 in) 250 mm (10 in) 13 Nm (10 lb*ft) 1440 Nm (324 lb) 0.8 / 1 m (2.75 / 3.25 ft) 88 % 74 pF/m (22.5 pF/ft) 8000 V RMS 2.04 Ω/Km (0.62 Ω/ 1000 ft)	

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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)	

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



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