

CELLFLEX® Lite

Innovation and engineering experience



	LCF12-50JL	LCF78-50JL	LCFS114-50JL	UCF78-50JL	UCF114-50JL	LCF158-50JL
Type	Low-Loss Lite	Low-Loss Lite	Low-Loss Lite	Ultraflexible Lite	Ultraflexible Lite	Low-Loss Lite
INNER CONDUCTOR						
Material	AlCu-Wire	Copper Tube		Corrugated Copper Tube		
Dimension [mm (in)]	4.8 (0.19)	9.3 (0.37)	13.1 (0.52)	9.5 (0.37)	13.8 (0.55)	17.6 (0.69)
OUTER CONDUCTOR						
Material	Corrugated Aluminium					
Dimension [mm (in)]	13.8 (0.54)	25.2 (0.99)	36.0 (1.42)	25.2 (0.99)	36.0 (1.42)	46.5 (1.83)
JACKET						
Material	Polyethylene, PE					
Dimension [mm (in)]	15.8 (0.62)	27.8 (1.09)	39.0 (1.54)	27.8 (1.09)	39.0 (1.54)	50.3 (1.98)
at frequency =	ATTENUATION [dB/100m (dB/100ft)]					
900 MHz	7.39 (2.25)	3.96 (1.21)	2.84 (0.867)	4.30 (1.31)	3.31 (1.01)	2.32 (0.707)
1800 MHz	10.7 (3.26)	5.76 (1.76)	4.18 (1.27)	6.30 (1.92)	4.84 (1.47)	3.45 (1.05)
2200 MHz	11.9 (3.63)	6.43 (1.96)	4.69 (1.43)	7.06 (2.15)	5.41 (1.65)	3.88 (1.18)
2600 MHz	13.1 (3.98)	7.05 (2.15)	5.16 (1.57)	7.76 (2.37)	5.95 (1.81)	4.28 (1.31)
3500 MHz	15.4 (4.69)	8.33 (2.54)	6.13 (1.87)	9.21 (2.81)	7.05 (2.15)	
at frequency =	MEAN POWER RATING [kW]					
900 MHz	1.20	2.68	3.98	2.35	3.11	5.04
1800 MHz	0.832	1.84	2.71	1.61	2.12	3.39
2200 MHz	0.748	1.65	2.41	1.43	1.90	3.02
2600 MHz	0.679	1.50	2.19	1.30	1.73	2.73
3500 MHz	0.578	1.27	1.85	1.10	1.46	
MAXIMUM OPERATING FREQUENCY [GHz]						
	8.8	5	3.6	4.9	3.6	2.75

RFS world

Represented on six continents, with 10 manufacturing centers-of-excellence and 36 technical support and sales offices in 21 countries.



NORTH AMERICA

- Coconut Creek
- Mansfield
- Meriden
- Naperville
- Maple Grove
- Ontario
- San Jose

LATIN AMERICA

- Bogota
- Mexico
- São Paulo

EUROPE NORTH

- Balabanovo
- Haddenham
- Hannover
- Hillerød
- Moscow
- Warwick

SOUTH EUROPE, MIDDLE EAST, AFRICA & INDIA

- Dubai
- Johannesburg
- Madrid
- Monza
- New Delhi
- Paris
- Pacy
- Trignac/Lannion

ASIA PACIFIC

- Bangkok
- Beijing
- Guangzhou
- Hong Kong
- Jakarta
- Kuala Lumpur
- Melbourne
- Shanghai
- Singapore
- Taipei
- Tokyo

CELLFLEX® Lite

1/2 up to 1-5/8-inch cables
A complete range of the most commonly used sizes



The future is our tradition

WIRELESS | MOBILE RADIO | MICROWAVE | IN-TUNNEL | IN-BUILDING | TV & RADIO | HF & DEFENSE

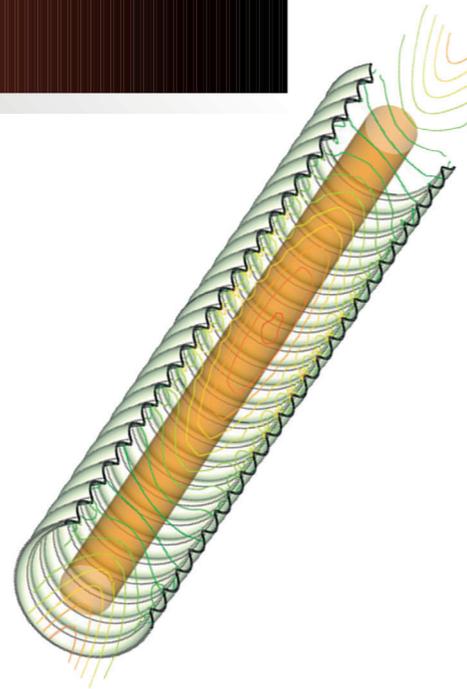
CELLFLEX® Lite

World-class innovation in transmission lines

CELLFLEX® Lite, the world's first corrugated aluminum transmission line, continues to be the lightest RF transmission cable on the market today. CELLFLEX® Lite is available in 1/2" to 1-5/8" diameter size types.

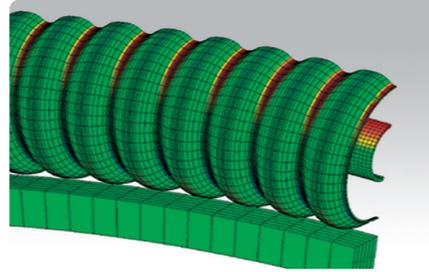
Its lightweight design, coupled with its single and multiple bending-radius capabilities allow fast installation and make it ideal for congested tower-top applications.

CELLFLEX® Lite offers an alternative price point and performance combination for establishing the base station to antenna RF link. Its robust construction and advanced electrical performance confirm CELLFLEX® Lite as the next generation in RF transmission development.

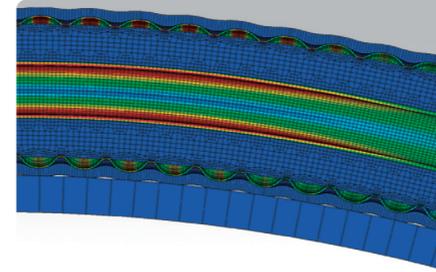


Innovation and engineering experience

CELLFLEX® Lite is the product of RFS's engineering team's innovative design concepts and know-how gained from several decades as a market leader. The result is a transmission line that corresponds to the diverse installation requirements of companies and carriers.



Simulation of Accelerated Lifetime



Numerical modeling of mechanical and electro-magnetic properties.

Features	Benefits
• Represents a light-weight transmission line solution	• Reduced work-force and lifting gear
• Exhibits a cost-efficient alternative to copper transmission line	• Reduced CAPEX spending
• Is offered in a 1/2" up to 1-5/8" diameter size	• Covers the majority of applications
• Is easy to transport, handle and install	• Savings in shipping cost
• Makes rapid roll-out of wireless network infrastructure possible	• First to market
• Offers user-friendly compatibility with RFS's existing range of accessories. OMNI FIT™ connectors are fully interchangeable between copper and Lite cables	• Less inventory, reduced OPEX
• Enables trouble-free installation and operation	• No downtime, reduced OPEX
• Boasts an attenuation of less than 6.25dB/100m @ 2 GHz (valid for 1/2")	• Unsacrificed coverage
• Specially developed connectors exhibit low and stable intermodulation performance	• No sensitivity degradation of basestation system
• Is available with UV-resistant polyethylene or flame-retardant jackets	• Choice of standard halogen free and flame retardant jacket options
• Has a return loss performance equal to that of CELLFLEX 'A'	• Maintained premium antenna system performance

Simulation of Accelerated Lifetime

Qualification tests have been performed on CELLFLEX® Lite cable according to international standards to confirm that the outstanding product performance is maintained after severe mechanical stress and environmental influences. The conditions applied during the tests are more severe compared to than those to be expected in real applications after many years of lifetime use. In that respect the tests are accelerated lifetime tests to guarantee a reliable and trouble-free product performance of more than for over 15 years.

CELLFLEX® Lite

Accessories

CELLFLEX® Lite offers user-friendly compatibility with the existing range of grounding kits and clamps, as well as trimming and preparation tools, jumpers, EMP-protectors and wall feedthroughs. The OMNI FIT™ - Connectors that are suitable both for CELLFLEX and CELLFLEX® Lite cable, provide users with familiar connection technology, enabling trouble-free installation and operation.



OMNI FIT™
Standard & Premium connectors



GKSPED
Grounding Kits



Tools: TRIM
for connectors



Tools: JSTRIP
for grounding kits



Jumper cables



Cable Clamps

