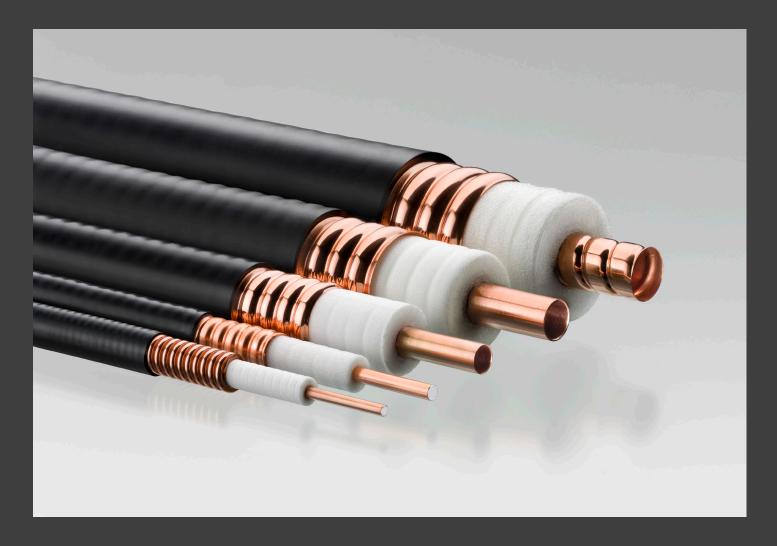


RADIO FREQUENCY SYSTEMS

RF CABLE SOLUTIONS SELECTION GUIDE

Edition 1 / 7.2022





RADIO FREQUENCY SYSTEMS

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CELLFLEX® SETS THE STANDARD

FOR COMMUNICATION CABLES

It was 1961 when we pioneered CELLFLEX, the foam dielectric corrugated coaxial cables that quickly became the industry's preferred choice for base station applications. Since then, CELLFLEX cables have been proving their value in indoor and outdoor applications around the world.



Today, our premium attenuation, low-loss CELLFLEX cables continue to set industry standards for performance, flexibility and durability.

INDUSTRY-LEADING ELECTRICAL PERFORMANCE

CELLFLEX foam dielectric corrugated cables feature copper outer and inner conductors that are key to improving

- · The two, solid copper conductors virtually eliminate interference due to passive intermodulation (PIM) and intermodulation distortion (IMD).
- · The outer conductor creates a continuous electromagnetic and radio frequency interference (EMI/RFI) shield that minimizes system interference.

With extremely low attenuation, excellent heat transfer properties and temperature-stabilized dielectric material, CELLFLEX cables deliver safe, long-term operation, even at high transmit power levels. Special low VSWR cable models help maintain system integrity.

REMARKABLE FLEXIBILITY AND STRENGTH

We've been continually advancing and refining our corrugation technology since we invented the first corrugated, seamwelded cable in 1951. Our ongoing dedication to superior corrugation techniques means CELLFLEX cables bend easily without risk of damage, even against strong bending forces. This rugged flexibility makes installations faster, easier and lower risk than installations using smooth wall cables.

CELLFLEX cables are also easier to reuse and recycle than competing cables because the layers are not bonded.

CELLFLEX® SETS THE STANDARD FOR COMMUNICATION CABLES

A COMPREHENSIVE, FUTUREPROOF PORTFOLIO

Our entire portfolio of CELLFLEX cables supports frequencies from low MHz ranges to 6 GHz to protect your investment. You can take advantage of emerging spectrum and evolve to 5G anywhere in the world — no matter which stage of evolution you're in today.

With 20 CELLFLEX cable models ranging from 1/4-inch to 1 5/8-inch in diameter, there's a CELLFLEX cable for even the most complicated and demanding applications.

Together, CELLFLEX and CELLFLEX Lite make up the largest corrugated transmission-line portfolio in the wireless infrastructure industry.

MEETING THE WORLD'S HIGHEST FIRE SAFETY STAN-**DARDS**

CELLFLEX cables have achieved the top Construction Products Regulation (CPR) rating of B2ca with a d0 droplets rating. They also meet international flameand fire-retardancy standards, including:

- IEC 60754-1/-2: Halogen-free and non-corrosive jacket tests
- IEC 60332-1: Flame tests
- IEC 60332-3-24: Cable bundle tests
- IEC 61034: Low-smoke emission tests



CELLFLEX® **LITE**

Reduce your reliance on copper cables

When we invented CELLFLEX Lite foam dielectric corrugated coaxial cables in 2006, they were the first in the industry to combine an aluminum outer conductor with a copper inner conductor.

These lightweight cables are the ideal alternative to CELLFLEX copper cables when fluctuating copper prices rise and in areas

where copper theft is an issue. They're easy to transport, handle and install. And they offer an unbeatable price-performance combination.

CELLFLEX Lite communications cables deliver world-class electrical performance that meets or exceeds that of many other vendors' copper cables.



OMNI FIT™ CONNECTORS

FOR EVERY APPLICATION AND BUDGET

OMNI FIT connectors are known throughout the industry for their precisionengineered performance, ease of installation and long life in the field. They can be used with copper and aluminum cables, and are the perfect complement to our CELLFLEX® and CELLFLEX Lite communications cables in any scenario:

- Tower and rooftop deployments
- Small cell deployments in dense urban environments
- Indoor and underground deployments

A COMPLETE PORTFOLIO TO CHOOSE FROM

Simply choose the OMNI FIT connectors that match your requirements:

OMNI FIT Premium E01 series connectors are fully optimized to deliver the ultimate combination of electrical performance, simplicity, durability and cost.

OMNI FIT Standard C03 series connectors deliver a first-class feature set at a very cost-effective price point.

Our complete portfolio of OMNI FIT Premium and OMNI FIT Standard connectors is available with spacing-saving 4.3-10 interfaces as well as traditional Type-N and 7-16 DIN interfaces in all interface combinations, versions and variants.

DESIGNED FOR FUTUREPROOF EVOLUTION TO 5G

OMNI FIT connectors support all frequencies up to 6 GHz, making them the perfect choice for smooth evolution to 5G globally.

You can take advantage of newly available spectrum such as Citizens Broadband Radio Service (CBRS), C-Band and License Assisted Access (LAA) today, then seamlessly switch to different frequencies tomorrow.

IDEAL FOR RETROFITS AND UPGRADES

Because OMNI FIT connectors are backwards compatible with so many installed cables, they're a very cost-effective way to instantly gain access to the fully frequency range supported by existing cables.

Simply replace legacy, frequency-limited connectors with OMNI FIT connectors to extend the life of current installations, reduce upgrade costs and gain higher returns on previous investments.



OMNI FIT™ CONNECTORS

FOR EVERY APPLICATION AND BUDGET

OMNI FIT PREMIUM: MAXIMUM VALUE FOR THE PRICE

OMNI FIT Premium connectors are tested and proven to deliver outstanding PIM and VSWR performance at all frequencies up to 6 GHz. They feature an ultra-compact, lightweight and extremely robust two-piece design that simplifies installations and avoids the need for additional parts that can complicate installations or be lost.

To ensure watertight durability, OMNI FIT Premium E01 series connectors include a built-in seal against the outer conductor and against the cable jacket so there's no need for external sealing. They can be installed using the same tools and following the same principles as the previous generation D01 connectors.

OMNI FIT STANDARD: COST-EFFECTIVE CONNECTORS WITH NO COMPROMISES

OMNI FIT Standard connectors provide key performance and design features that help you squeeze every last bit of performance out of infrastructure at a very appealing price point.

The high-performance CO3 series connectors provide excellent PIM and VSWR ratings that help to maintain signal quality and system performance end-to-end. They also feature a lightweight design that simplifies installation and minimizes weight burdens.

With three attachment options to choose from — push-pull, hand-screw and hex-head — OMNI FIT Standard connectors are easy to install in any environment.







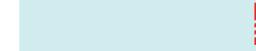
Accelerate Installations



CELLFLEX MultiFlex cabling solutions feature 1-meter (3-ft)
CELLFLEX jumpers connected to each end of a CELLFLEX feeder cable of any length with OMNI FIT™ connectors. You choose the jumper, cable and connector combination you need, and we take care of assembly.

With a pre-assembled CELLFLEX MultiFlex solution, you'll save time and effort across indoor and outdoor installations. And you'll have the ultimate combination: The flexibility of jumpers, the outstanding performance of larger feeder cables and the reliability of factory-installed connectors.

All CELLFLEX MultiFlex solutions support frequencies up to 6 GHz to get you to 5G faster anywhere in the world.





FOAM-DIELECTRIC COAXIAL CABLE

SCF14 Series: 20.4 GHz

ORDERING INFORMATION

Jacketing Options	Standard Attenuation Cable Model Numbers
Outdoor standard:	<u>SCF14-50J</u>
Indoor flame retardant:	SCF14-50JFN

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS			
Dimensions Over Jacket	mm (in)	7.8 (0.307)	
Min. Bending Radius, Repeated	mm (in)	25 (0.984)	
Jacket Type		Polyethylene, PE	
Bending Moment	Nm (lb-ft)	0.7 (0.5)	
Tensile Strength	N (lb)	600 (135)	
Recommended/Maximum Clamp Spacing	m (ft)	0.2 / 0.2 (0.67 / 0.67)	

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-40 to 60 (-40 to 140)
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)
Storage	°C (°F)	-70 to 85 (-94 to 185)
Operation	°C (°F)	-50 to 85 (-58 to 185)

ELECTRICAL SPECIFICATIONS		
Operating Frequency Band	GHz	20.4
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)

ATTENUATION				
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW	
800	17.30	5.27	0.38	
1800	26.90	8.20	0.25	
2400	31.30	9.60	0.21	
3500	39.10	11.90	0.17	
5000	48.00	14.60	0.14	
6000	53.40	16.30	0.12	
8000	63.40	19.30	0.10	
10000	72.60	22.10	0.09	
12000	81.00	24.80	0.08	
16000	97.00	29.60	0.07	
18000	105.00	31.90	0.06	
20400	113.00	34.60	0.06	

RELATED PRODUCTS

Premium Connector Series E01 Model Number Type			
716M-SCF14-E01	7-16 Male		
NM-SCF14-E01	N Type Male		
NF-SCF14-E01	N Type Female		
43MR-SCF14-E01	4.3-10 Male Right Angle		
43M-SCF14-E01	4.3-10 Male		
Tools for Series E01			
TRIM-SET-S14-D01	Universal Trimming Tool		
TRIM-IS14-D01	Univ. Trimming Tool Insert		

Accessories	
Model Number	Type
TRIM-T01	Hand Tool Kit

CELLFLEX LOW-LOSS

FOAM-DIELECTRIC COAXIAL CABLE

SCF38 Series: 13.4 GHz

ORDERING INFORMATION

Jacketing Options	Standard Attenuation Cable Model Numbers
Outdoor standard:	SCF38-50J
Indoor flame retardant:	SCF38-50JFN

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS		
Dimensions Over Jacket	mm (in)	10.2 (0.402)
Min. Bending Radius, Repeated	mm (in)	25 (0.984)
Jacket Type		Polyethylene, PE
Bending Moment	Nm (lb-ft)	1.4 (1)
Tensile Strength	N (lb)	600 (135)
Recommended/Maximum Clamp Spacing	m (ft)	0.25 / 0.25 (0.8 / 0.8)

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-40 to 60 (-40 to 140)
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)
Storage	°C (°F)	-70 to 85 (-94 to 185)
Operation	°C (°F)	-50 to 85 (-58 to 185)

ELECTRICAL SPECIFICATIONS			
Operating Frequency Band	GHz	13.4	
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)	

ATTENUATION			
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW
800	12.73	3.88	0.62
1800	20.05	6.11	0.39
2400	23.70	7.21	0.33
3500	29.50	9.01	0.27
5000	36.60	11.16	0.22
6000	41.00	12.48	0.19
8000	49.00	14.94	0.16
10000	56.50	17.21	0.14
12000	63.50	19.37	0.12
13400	68.30	20.82	0.12

RELATED PRODUCTS

Premium Connector Series E01	
Model Number	Туре
NM-SCF38-E01	N Type Male
NF-SCF38-E01	N Type Female
43M-SCF38-E01	4.3-10 Male
Tools for Series	E01
TRIM-SET-S38-D01	Universal Trimming Tool
TRIM-IS38-D01	Univ. Trimming Tool Insert

Accessories Model Number	Туре
RSB-S38/L14	Stainless Steel Clamp
TRIM-T01	Hand Tool Kit





FOAM-DIELECTRIC COAXIAL CABLE

SCF12 Series: 10.6 GHz

ORDERING INFORMATION

Jacketing Options	Standard Attenuation Cable Model Numbers
Outdoor standard:	SCF12-50J
Indoor flame retardant:	SCF12-50JFN

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS		
Dimensions Over Jacket	mm (in)	13.7 (0.539)
Min. Bending Radius, Repeated	mm (in)	32 (1.3)
Jacket Type		Polyethylene, PE
Bending Moment	Nm (lb-ft)	2.5 (1.84)
Tensile Strength	N (lb)	650 (146)
Recommended/Maximum Clamp Spacing	m (ft)	0.3 / 0.5 (1 / 1.64)

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-40 to 60 (-40 to 140)
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)
Storage	°C (°F)	-70 to 85 (-94 to 185)
Operation	°C (°F)	-50 to 85 (-58 to 185)

ELECTRICAL SP	ECIFICATIO	NS
Operating Frequency Band	GHz	10.6
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)

ATTENUATION			
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW
800	9.57	2.92	0.74
1800	14.90	4.55	0.47
2400	17.50	5.35	0.40
3500	21.80	6.63	0.32
5000	26.80	8.16	0.26
6000	29.80	9.09	0.24
8000	35.50	10.80	0.20
10000	40.60	12.40	0.17

RELATED PRODUCTS

Standard Connect Model Number	ctors Type	
716M-SCF12-C03	7-16 Male	
716F-SCF12-C03	7-16 Female	
43M-SCF12-C03	4.3-10 Male	
43MH-SCF12-C03	4.3-10 Male, Hand Screw	
43MP-SCF12-C03	4.3-10 Male, Push-Pull	
43F-SCF12-C03	4.3-10 Female	
NM-SCF12-C03	N Type Male	
NF-SCF12-C03	N Type Female	
716MR-SCF12-C03	7-16 Male Right Angle	
43MR-SCF12-C03	4.3-10 Male Right Angle	
Tools for Series C03		

TRIM-SET-S12-C02 Universal Trimming Tool

Premium Conne Model Number	ctor Series E01 Type
716M-SCF12-E01	7-16 Male
716F-SCF12-E01	7-16 Female
43M-SCF12-E01	4.3-10 Male
43F-SCF12-E01	4.3-10 Female
NM-SCF12-E01	N Type Male
NF-SCF12-E01	N Type Female
716MR-SCF12-E01	7-16 Male Right Angle
43MR-SCF12-E01	4.3-10 Male Right Angle
NMR-SCF12-E01	N Type Male Right Angle
Tools for Series	E01
TRIM-SET-S12-D01	Universal Trimming Tool
TRIM-IS12-D01	Univ. Trimming Tool Insert

Accessories Model Number	Туре
RSB-S12	Stainless Steel Clamp
RSB-S12/78	Stainless Steel Clamp
TRIM-T01	Hand Tool Kit

CELLFLEX LOW-LOSS

FOAM-DIELECTRIC COAXIAL CABLE

LCF14 Series: 15.8 GHz

ORDERING INFORMATION

Jacketing Options	Standard Attenuation Cable Model Numbers
Outdoor standard:	LCF14-50J
Indoor flame retardant:	LCF14-50JFN

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS		
Dimensions Over Jacket	mm (in)	10 (0.394)
Min. Bending Radius, Single	mm (in)	40 (1.575)
Min. Bending Radius, Repeated	mm (in)	85 (3.346)
Jacket Type		Polyethylene, PE
Bending Moment	Nm (lb-ft)	1.9 (1.4)
Tensile Strength	N (lb)	890 (200)
Recommended/Maximum Clamp Spacing	m (ft)	0.5 / 1 (1.75 / 3.25)

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-40 to 60 (-40 to 140)
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)
Storage	°C (°F)	-70 to 85 (-94 to 185)
Operation	°C (°F)	-50 to 85 (-58 to 185)

ELECTRICAL SPECIFICATIONS		
Operating Frequency Band	GHz	15.8
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)

ATTENUATION			
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW
800	12.40	3.77	0.59
1800	19.10	5.82	0.38
2400	22.30	6.81	0.33
3500	27.50	8.39	0.27
5000	33.70	10.30	0.22
6000	37.40	11.40	0.20
8000	44.10	13.50	0.17
10000	50.30	15.30	0.15
12000	56.10	17.10	0.13
15800	66.20	20.20	0.11

RELATED PRODUCTS

Model Number	Type	
43M-LCF14-E01	4.3-10 Male	
NM-LCF14-E01	N Type Male	
NF-LCF14-E01	N Type Female	
NMR-LCF14-E01	N Type Male Right Angle	
Tools for Series D01		
TRIM-SET-L14-D01	Universal Trimming Tool	

TRIM-IL14-D01 Univ. Trimming Tool Insert

Accessories Model Number	Туре
RSB-S38/L14	Stainless Steel Clamp
GKSPEED20-14C	Grounding Kit, CCA Wire
GKSPEED20-14P	Grounding Kit, Premium
TRIM-T01	Hand Tool Kit





FOAM-DIELECTRIC COAXIAL CABLE

LCF38 Series: 13.5 GHz

ORDERING INFORMATION

Jacketing Options	Standard Attenuation Cable Model Numbers
Outdoor standard:	LCF38-50J
Indoor flame retardant:	LCF38-50JFN

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS		
Dimensions Over Jacket	mm (in)	11.2 (0.441)
Min. Bending Radius, Single	mm (in)	50 (2)
Min. Bending Radius, Repeated	mm (in)	95 (4)
Jacket Type		Polyethylene, PE
Bending Moment	Nm (lb-ft)	1.9 (1.4)
Tensile Strength	N (lb)	530 (119)
Recommended/Maximum Clamp Spacing	m (ft)	0.5 / 1 (1.75 / 3.25)

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-40 to 60 (-40 to 140)
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)
Storage	°C (°F)	-70 to 85 (-94 to 185)
Operation	°C (°F)	-50 to 85 (-58 to 185)

ELECTRICAL SF	ECIFICATIO	NS
Operating Frequency Band	GHz	13.5
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)

ATTENUATION			
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW
800	10.10	3.07	0.72
1800	15.50	4.74	0.47
2400	18.20	5.54	0.40
3500	22.40	6.82	0.32
5000	27.40	8.34	0.27
6000	30.30	9.25	0.24
8000	35.80	10.90	0.20
10000	40.80	12.40	0.18
12000	45.50	13.90	0.16
13500	48.80	14.90	0.15

RELATED PRODUCTS

Standard Connectors

Model Number	Туре	
NM-LCF38-070	N Type Male	
NF-LCF38-070	N Type Female	
NMR-LCF38-071	N Type Male Right Angle	
Tools for Series C03		
TRIM-38-L03	Combination Prep Tool	

Premium Connector Series E01 Model Number Type			
43M-LCF38-E01	4.3-10 Male		
NM-LCF38-E01	N Type Male		
NF-LCF38-E01	N Type Female		
NMR-LCF38-E01	N Type Male Right Angle		
Tools for Series E01			
TRIM-SET-L38-E01	Universal Trimming Tool		

Univ. Trimming Tool Insert

TRIM-IL38-E01

Accessories Model Number	Туре
RSB-38/12	RSB Clamp Lining
RSB-12	RSB Clip (in Combination)
TRIM-T01	Hand Tool Kit

CELLFLEX LOW-LOSS

FOAM-DIELECTRIC COAXIAL CABLE

LCF12 Series: 8.8 GHz

ORDERING INFORMATION

Jacketing Options	Premium Attenuation Cable Model Numbers	Lite Low-Loss Cable Model Numbers
Outdoor standard:	LCF12-50J	LCF12-50JL
Indoor flame retardant:	LCF12-50JFN	LCF12-50JFNL

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS			
Dimensions Over Jacket	mm (in)	15.9 (0.62)	
Min. Bending Radius, Single	mm (in)	70 (3)	
Min. Bending Radius, Repeated	mm (in)	125 (5)	
acket Type		Polyethylene, PE	
Bending Moment	Nm (lb-ft)	6.5 (4.8)	
ensile Strength	N (lb)	Copper 1050 (236) Aluminum 800 (180)	
Recommended/Maximum Clamp Spacing	m (ft)	0.6 / 1 (2 / 3.25)	

TEMPERATURE SPECIFICATIONS			
Installation	°C (°F)	-40 to 60 (-40 to 140)	
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)	
Storage	°C (°F)	-70 to 85 (-94 to 185)	
Operation	°C (°F)	-50 to 85 (-58 to 185)	

ELECTRICAL SPECIFICATIONS			
Operating Frequency Band	GHz	8.8	
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)	

ATTENUATION						
Frequency, MHz	dB per 100 m		dB per 100 ft		Power, kW	
Version	JA	JL	JA	JL	JA	JL
800	6.48	6.94	1.98	2.12	1.16	1.28
1800	10.10	10.70	3.07	3.26	0.75	0.83
2200	11.30	11.90	3.44	3.63	0.67	0.75
2600	12.40	13.10	3.78	3.98	0.61	0.68
3500	14.70	15.40	4.47	4.69	0.51	0.58
5000	18.00	18.80	5.50	5.72	0.42	0.47
6000	20.70	20.80	6.30	6.34	0.37	0.43
8000	23.80	24.50	7.26	7.47	0.32	0.36
8800	25.20	25.90	7.69	7.90	0.30	0.34

RELATED PRODUCTS

Standard Connector Series C03 Model Number Type			
716M-LCF12-C03	7/16 Male		
716F-LCF12-C03	7/16 Female		
43M-LCF12-C03	4.3-10 Male		
43MH-LCF12-C03	4.3-10 Male, Hand Screw		
43MP-LCF12-C03	4.3-10 Male, Push-Pull		
43F-LCF12-C03	4.3-10 Female		
NM-LCF12-C03	N Type Male		
NF-LCF12-C03	N Type Female		
716MR-LCF12-C03	7/16 Male Right Angle		
43MR-LCF12-C03	4.3-10 Male Right Angle		
NMR-LCF12-C02	N Type Male Right Angle		
Tools for Series C03			
TRIM-SET-L12-C02	Universal Trimming Tool		
TRIM-IL12-C02	Trimming Tool Insert		

Premium Conne Model Number	ctor Series E01 Type		
716M-LCF12-E01	7/16 Male		
716F-LCF12-E01	7/16 Female		
43M-LCF12-E01	4.3-10 Male		
43F-LCF12-E01	4.3-10 Female		
NM-LCF12-E01	N Type Male		
NF-LCF12-E01	N Type Female		
716MR-LCF12-E01	7/16 Male Right Angle		
43MR-LCF12-E01	4.3-10 Male Right Angle		
NMR-LCF12-E01	N Type Male Right Angle		
Tools for Series	Tools for Series E01		
TRIM-SET-L12-D01	Universal Trimming Tool		
TRIM-IL12-D01	Univ. Trimming Tool Insert		
TRIM-LCF12-D01-A	Automatic Trimming Tool		
TRIM-B13	Blades for Automatic Tool		

Accessories Model Number	Туре
HOIST1-12L	Hoisting Grip
GKSPEED20-12C	Grounding Kit, CCA Wire
GKSPEED20-12P	Grounding Kit, Premium
GKSPEED20-12S	Grounding Kit, Standard
GKSPEED60-12S	Grounding Kit, High Speed
JSTRIP-12-3	Jacket Stripping Tool
CEAR-12	Connector Grounding Kit
BOOT4-12-4	Feed Through Assembly
BOOT-CP-12	Cushion Plug
RSB-12	Stainless Steel Clamp
TRIM-T01	Hand Tool Kit
Multi-Block Hai	ngers
MBH12-2-F	2 per layer, 1 layer, 2 runs
MBH12-6-F	2 per layer, 3 layers, 6 runs
MBHS12-1-F	1 per layer, 1 layer, 1 run

MBHS12-3-F

1 per layer, 2 layers, 2 runs

1 per layer, 3 layers, 3 runs





CELLFLEX LOW-LOSSFOAM-DIELECTRIC COAXIAL CABLE

LCF78 Series: 5 GHz

ORDERING INFORMATION

Jacketing Options	Premium Attenuation Cable Model Numbers	Lite Low-Loss Cable Model Numbers
Outdoor standard:	LCF78-50JA	LCF78-50JL
Indoor flame retardant:	LCF78-50JFNA	LCF78-50JFNL

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS			
Dimensions Over Jacket	mm (in)	27.8 (1.094)	
Min. Bending Radius, Single	mm (in)	120 (5)	
Min. Bending Radius, Repeated	mm (in)	250 (10)	
Jacket Type		Polyethylene, PE	
Bending Moment	Nm (lb-ft)	13 (10)	
Tensile Strength	N (lb)	1440 (324)	
Recommended/Maximum Clamp Spacing	m (ft)	0.8 / 1 (2.75 / 3.25)	

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-40 to 60 (-40 to 140)
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)
Storage	°C (°F)	-70 to 85 (-94 to 185)
Operation	°C (°F)	-50 to 85 (-58 to 185)

ELECTRICAL SP	ECIFICATIO	NS
Operating Frequency Band	GHz	5
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)

ATTENUATION						
Frequency, MHz	dB per	100 m	dB per 100 ft		Power, kW	
Version	JA	JL	JA	JL	JA	JL
800	3.48	3.72	1.06	1.13	2.41	2.85
1800	5.44	5.76	1.66	1.76	1.54	1.84
2200	6.09	6.43	1.86	1.96	1.38	1,65
2600	6.70	7.05	2.04	2.15	1.25	1.50
3600	8.30	8.47	2.53	2.58	1.03	1.25
4000	8.60	8.98	2.62	2.74	0.97	1.18
5000	9.81	10.20	2.99	3.11	0.85	1.04

Accessories

RELATED PRODUCTS

TRIM-FL78

Standard Conne Model Number	ctor Series C03 Type	
716M-LCF78-C03	7/16 Male	
716F-LCF78-C03	7/16 Female	
43M-LCF78-C03	4.3-10 Male	
43MH-LCF78-C03	4.3-10 Male, Hand Screw	
43MP-LCF78-C03	4.3-10 Male, Push-Pull	
43F-LCF78-C03	4.3-10 Female	
NM-LCF78-C03	N Type Male	
NF-LCF78-C03	N Type Female	
Tools for Series C03		
TRIM-SET-L78-C02	Universal Trimming Tool	

Trimming Tool Insert

Flaring Tool

Premium Conne Model Number	ctor Series E01 Type
716M-LCF78-E01	7/16 Male
716F-LCF78-E01	7/16 Female
43M-LCF78-E01	4.3-10 Male
43F-LCF78-E01	4.3-10 Female
NM-LCF78-E01	N Type Male
NF-LCF78-E01	N Type Female
Tools for Series	E01
TRIM-SET-L78-D01	Universal Trimming Tool
TRIM-IL78-D01	Univ. Trimming Tool Insert
TRIM-LCF78-D01-A	Automatic Trimming Tool
TRIM-FL78	Flaring Tool

Model Number	Туре
HOIST1-78L	Hoisting Grip
GKSPEED20-78C	Grounding Kit, CCA Wire
GKSPEED20-78P	Grounding Kit, Premium
GKSPEED20-78S	Grounding Kit, Standard
GKSPEED60-78S	Grounding Kit, High Speed
JSTRIP-78-2	Jacket Stripping Tool
CEAR-78	Connector Grounding Kit
BOOT4-78-4	Feed Through Assembly
BOOT-CP-78	Cushion Plug
RSB-78	Stainless Steel Clamp
TRIM-T01	Hand Tool Kit
Multi-Block Ha	ngers
MBH78-2-F	2 per layer, 1 layer, 2 runs
MBH78-6-F	2 per layer, 3 layers, 6 runs
MBHS78-1-F	1 per layer, 1 layer, 1 run
MBHS78-2-F	1 per layer, 2 layers, 2 runs
MBHS78-3-F	1 per layer, 3 layers, 3 runs
·	



FOAM-DIELECTRIC COAXIAL CABLE

LCFS114 Series: 3.7 GHz

ORDERING INFORMATION

Jacketing Options	Premium Attenuation Cable Model Numbers
Outdoor standard:	LCFS114-50JA
Indoor flame retardant:	LCFS114-50JFNA
Indoor CPR certified	LCFS114-50CPR

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS			
Dimensions Over Jacket	mm (in)	39 (1.54)	
Min. Bending Radius, Single	mm (in)	200 (8)	
Min. Bending Radius, Repeated	mm (in)	380 (15)	
Jacket Type		Polyethylene, PE	
Bending Moment	Nm (lb-ft)	Copper 43 (32) Aluminum 22 (16.2)	
Tensile Strength	N (lb)	Copper 2490 (560) Aluminum 1850 (416)	
Recommended/Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)	

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-40 to 60 (-40 to 140)
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)
Storage	°C (°F)	-70 to 85 (-94 to 185)
Operation	°C (°F)	-50 to 85 (-58 to 185)

ELECTRICAL SP	ECIFICATIO	NS
Operating Frequency Band	GHz	3.7
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)

ATTENUATION				
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW	
800	2.47	0.75	4.45	
1900	4.00	1.22	2.75	
2200	4.35	1.33	2.53	
2600	4.80	1.46	2.29	
2700	4.90	1.49	2.24	
3000	5.21	1.59	2.11	
3300	5.51	1.68	2.00	
3600	5.80	1.77	1.90	
3700	5.90	1.80	1.86	

RELATED PRODUCTS

Standard Connect Model Number	ctor Series C02 Type	
716M-LCF114-C02	7/16 Male	
716F-LCF114-C02	7/16 Female	
NM-LCF114-C02	N Type Male	
NF-LCF114-C02	N Type Female	
Tools for Series C02		
TRIM-SET-L114-C02	Universal Trimming Tool	
TRIM-IL114-C02	Trimming Tool Insert	

Premium Connector Series E01 Model Number Type			
716M-LCF114-E01	7/16 Male		
716F-LCF114-E01	7/16 Female		
43M-LCF114-E01	4.3-10 Male		
43F-LCF114-E01	4.3-10 Female		
NM-LCF114-E01	N Type Male		
NF-LCF114-E01	N Type Female		
Tools for Series E01			
TRIM-SET-L114-D01	Universal Trimming Tool		
TRIM-IL114-D01	Univ. Trimming Tool Insert		

Accessories			
Model Number	Туре		
HOIST1-114L	Hoisting Grip		
GKSPEED20-114C	Grounding Kit, CCA Wire		
GKSPEED20-114P	Grounding Kit, Premium		
GKSPEED60-114S	Grounding Kit, High Speed		
JSTRIP-114-2	Jacket Stripping Tool		
<u>CEAR-114</u>	Connector Grounding Kit		
RSB-114	Stainless Steel Clamp		
TRIM-T01	Hand Tool Kit		
Multi-Block Har	ngers		
MBHS114-1-F	1 per layer, 1 layer, 1 run		
MBHS114-2-F	1 per layer, 2 layers, 2 runs		
MBHS114-3-F	1 per layer, 3 layers, 3 runs		





FOAM-DIELECTRIC COAXIAL CABLE

LCF158 Series: 2.75 GHz

ORDERING INFORMATION

Jacketing Options	Premium Attenuation Cable Model Numbers
Outdoor standard:	LCF158-50JA
Indoor flame retardant:	LCF158-50JFNA
Indoor flame retardant:	LCF158-50CPR

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS			
Dimensions Over Jacket	mm (in)	50.2 (1.98)	
Min. Bending Radius, Single	mm (in)	200 (8)	
Min. Bending Radius, Repeated	mm (in)	500 (20)	
Jacket Type		Polyethylene, PE	
Bending Moment	Nm (lb-ft)	42 (31)	
Tensile Strength	N (lb)	2500 (562)	
Recommended/Maximum Clamp Spacing	m (ft)	1.2 / 1.5 (4 / 5)	

TEMPERATURE SPECIFICATIONS			
Installation	°C (°F)	-40 to 60 (-40 to 140)	
Installation - JFNA	°C (°F)	-25 to 60 (-13 to 140)	
Storage	°C (°F)	-70 to 85 (-94 to 185)	
Operation	°C (°F)	-50 to 85 (-58 to 185)	

ELECTRICAL SPECIFICATIONS Operating Frequency Band GHz 2.75 Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135) Max. VSWR / Return Loss dB (VSWR)

ATTENUATION				
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW	
800	1.98	0.60	5.66	
1700	3.06	0.93	3.66	
2000	3.36	1.03	3.34	
2200	3.56	1.08	3.15	
2400	3.75	1.14	2.99	
2600	3.93	1.20	2.85	
2700	4.02	1.23	2.79	
2750	4.07	1.24	2.75	

Accessories

RELATED PRODUCTS

Standard Connector Series C02

Model Number	туре
716M-LCF158-C02	7/16 Male
716F-LCF158-C02	7/16 Female
NM-LCF158-C02	N Type Male
NF-LCF158-C02	N Type Female
Tools for Series C	:02
TRIM-SET-L158-C02	Universal Trimming Tool
TRIM-IL158-C02	Trimming Tool Insert

Premium Connector Series Eu1			
Model Number	Туре		
716M-LCF158-E01	7/16 Male		
716F-LCF158-E01	7/16 Female		
43M-LCF158-E01	4.3-10 Male		
43F-LCF158-E01	4.3-10 Female		
NM-LCF158-E01	N Type Male		
NF-LCF158-E01	N Type Female		
Tools for Series E01			
TRIM-SET-L158-D01	Universal Trimming Tool		
TRIM-IL158-D01	Univ. Trimming Tool Insert		

Model Number	Туре	
HOIST1-158L	Hoisting Grip	
GKSPEED20-158C	Grounding Kit, CCA Wire	
GKSPEED20-158P	Grounding Kit, Premium	
GKSPEED60-158S	Grounding Kit, High Speed	
JSTRIP-158-2	Jacket Stripping Tool	
CEAR-158	Connector Grounding Kit	
BOOT4-158-1	Feed Through Assembly	
RSB-158	Stainless Steel Clamp	
TRIM-T01	Hand Tool Kit	
Multi-Block Har	ngers	
MBH158-2-F	2 per layer, 1 layer, 2 runs	
MBH158-6-F	2 per layer, 3 layers, 6 runs	
MBHS158-1-F	1 per layer, 1 layer, 1 run	
MBHS158-2-F	1 per layer, 2 layers, 2 runs	

CELLFLEX LOW-LOSS

FOAM-DIELECTRIC COAXIAL CABLE

LCF158 J Series: 2.75 GHz

ORDERING INFORMATION

Jacketing Options	Lite Low-Loss Cable Model Numbers
Outdoor standard:	LCF158-50JL
Indoor flame retardant:	LCF158-50JFNL

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS			
Dimensions Over Jacket	mm (in)	50.2 (1.98)	
Min. Bending Radius, Single	mm (in)	200 (8)	
Min. Bending Radius, Repeated	mm (in)	500 (20)	
Jacket Type		Polyethylene, PE	
Bending Moment	Nm (lb-ft)	40.7 (30.7)	
Tensile Strength	N (lb)	1800 (405)	
Recommended/Maximum Clamp Spacing	m (ft)	1.2 / 1.5 (4 / 5)	

TEMPERATURE SPECIFICATIONS			
Installation	°C (°F)	-40 to 60 (-40 to 140)	
Installation - JFNL	°C (°F)	-25 to 60 (-13 to 140)	
Storage	°C (°F)	-70 to 85 (-94 to 185)	
Operation	°C (°F)	-50 to 85 (-58 to 185)	

ELECTRICAL SP	ECIFICATIO	NS
Operating Frequency Band	GHz	2.75
Max. VSWR / Return Loss	dB (VSWR)	Standard 20 (1.222) Premium 23 (1.152) Premium 24 (1.135)

ATTENUATION			
Frequency, MHz	dB per 100 m	dB per 100 ft	Power, kW
800	2.17	0.66	5.39
1700	3.33	1.02	3.51
2000	3.67	1.12	3.19
2200	3.88	1.18	3.02
2400	4.08	1.24	2.87
2600	4.28	1.31	2.73
2700	4.38	1.34	2.67
2750	4.43	1.35	2.64

Accessories

MBHS158-2-F

RELATED PRODUCTS

Model Number Type		
716M-LCF158-C02	7/16 Male	
716F-LCF158-C02	7/16 Female	
NM-LCF158-C02	N Type Male	
NF-LCF158-C02	N Type Female	
Tools for Series C02		
TRIM-SET-L158-C02	Universal Trimming Tool	
TRIM-IL158-C02	Trimming Tool Insert	

Model Number	Type
716M-LCF158-E01	7/16 Male
716F-LCF158-E01	7/16 Female
43M-LCF158-E01	4.3-10 Male
43F-LCF158-E01	4.3-10 Female
NM-LCF158-E01	N Type Male
NF-LCF158-E01	N Type Female
Tools for Series	E01
TRIM-SET-L158-D01	Universal Trimming Tool
TRIM-IL158-D01	Univ. Trimming Tool Insert

Model Number	Туре	
HOIST1-158L	Hoisting Grip	
GKSPEED20-158C	Grounding Kit, CCA Wire	
GKSPEED20-158P	Grounding Kit, Premium	
GKSPEED60-158S	Grounding Kit, High Speed	
JSTRIP-158-2	Jacket Stripping Tool	
CEAR-158	Connector Grounding Kit	
BOOT4-158-1	Feed Through Assembly	
RSB-158	Stainless Steel Clamp	
TRIM-T01	Hand Tool Kit	
Multi-Block Hangers		
MBH158-2-F	2 per layer, 1 layer, 2 runs	
MBH158-6-F	2 per layer, 3 layers, 6 runs	
MBHS158-1-F	1 per layer, 1 layer, 1 run	

1 per layer, 2 layers, 2 runs





CLEARFILL®LINE PLENUM-RATED CABLES

RFS ClearFill®Line plenum-rated wideband cables deliver outstanding electrical and mechanical performance, and operate in frequencies from 380 MHz to 6 GHz to support all in-building wireless technologies and applications. These air dielectric coaxial cables are thoroughly tested for safe use within the "environmental air handling space" in ceilings as well as in more traditional plenum applications. They're available in copper or lighter weight aluminum models to meet any installation requirements.

IMPROVE IN-BUILDING WIRELESS NETWORK PERFORMANCE

ClearFill®Line plenum-rated cables provide low attenuation and excellent return loss.

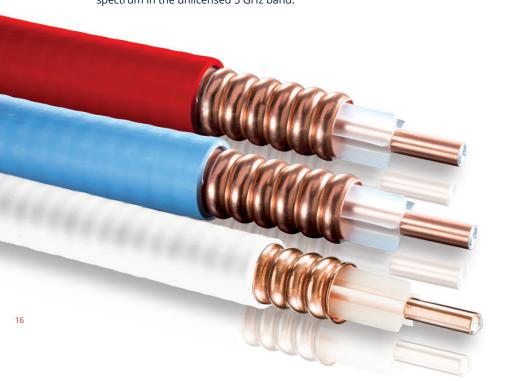
FREQUENCY RANGE (MHz)	RETURN LOSS (dB)	VSWR
698-960	24	1.13
1395-1432	24	1.13
1700-2155	24	1.13
2300-2700	20	1.22
3550-4200	18	1.29
5150-6000	18	1.29

They also feature robust construction that reduces the risk of performance issues:

- A continuous, star-shaped dielectric provides complete support for the inner conductor to eliminate electrical and mechanical problems in tight bending areas.
- The solid outer conductor creates a continuous RFI/EMI shield that minimizes system interference.

LEVERAGE NEW SPECTRUM

With wideband spectrum support up to 6 GHz, ClearFillLine plenum-rated cables make it easy to take advantage of newly available Citizens Broadband Radio Service (CBRS) spectrum in the 3.5 GHz band and LTE License Assisted Access (LAA) spectrum in the unlicensed 5 GHz band.



Wideband operation

Support technologies and applications in bands ranging from 380MHz

up to 6GHz

CLEARFILL®LINE PLENUM-RATED CABLES

ICA12 Series: 6 GHz

ORDERING INFORMATION

1/2" Plenum-Rated Cables Jacket Color	Wideband Copper Cables Model Numbers	Wideband Aluminum Cables Model Numbers
Blue	ICA12-50JPL	ICA12-50JPLL
Red	ICA12-50JPLR	ICA12-50JPLLR
Black	ICA12-50JPLB	ICA12-50JPLLB
White	ICA12-50JPLW	ICA12-50JPLLW

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS		
Dimensions Over Jacket	mm (in)	15.93 (0.627)
Min. Bending Radius, Single	mm (in)	76 (3)
Min. Bending Radius, Repeated	mm (in)	127 (5)
Jacket Type	PVC, Plenum Rated, UV rated to ASTM G155, Water-resistant	
Bending Moment	Nm (lb-ft)	Copper 4.1 (3) Aluminum 5.4 (4)
Tensile Strength	N (lb)	Copper 1112 (250) Aluminum 549 (150)
Recommended/Maximum Clamp Spacing	m (ft)	0.5 / 0.9 (1.8 / 3)

TEMPERATURE SPECIFICATIONS		
Installation	°C (°F)	-20 to 60 (-4 to 140)
Storage	°C (°F)	-40 to 85 (-40 to 185)
Operation	°C (°F)	-40 to 85 (-40 to 185)
Operation	°C (°F)	-40 to 85 (-40 to 185)

Version JPL JBO JOS 0.67 2200

Operating Frequency Band

Max. VSWR / Return Loss

Frequency, MHz

4000

5000

 19.30
 20.90
 5.88
 6.36
 0.38
 0.38

 21.6
 23.3
 6.58
 7.11
 0.34
 0.34

16.80 18.30 5.13 5.56 0.44 0.43

dB per 100 m dB per 100 ft Power, kW

RELATED PRODUCTS

Standard Connector Series C03/C02

Model Number	Type
716M-LCF12-C03	7/16 Male
716F-LCF12-C03	7/16 Female
43M-LCF12-C03	4.3-10 Male
43F-LCF12-C03	4.3-10 Female
NM-LCF12-C02-6	N Type Male
NF-LCF12-C02-6	N Type Female
NM-LCF12-C03	N Type Male
NF-LCF12-C03	N Type Female
Tools for Series C03/C02	

TRIM-ICA12-C02 Universal Trimming Tool

Premium Connector Series E01

Premium Connector Series Eur		
Model Number	Туре	
716M-LCF12-E01	7/16 Male	
716F-LCF12-E01	7/16 Female	
43M-LCF12-E01	4.3-10 Male	
43F-LCF12-E01	4.3-10 Female	
NM-LCF12-E01	N Type Male	
NF-LCF12-E01	N Type Female	
Tools for Series E01		
TRIM-SET-L12-D01	Universal Trimming Tool	

Accessories

ELECTRICAL SPECIFICATIONS

dB (VSWR)

ATTENUATION

24 (1.13) @ 698-960 MHz 24 (1.13) @ 1395-1432 MHz 24 (1.13) @ 1700-2155 MHz

20 (1.22) @ 2300-2700 MHz 18 (1.29) @ 3550-4200 MHz 18 (1.29) @ 5150-6000 MHz

Accessories Model Number	Туре
HOIST1-12L	Hoisting Grip
GKSPEED20-12C	Grounding Kit, CCA Wire
GKSPEED20-12P	Grounding Kit, Premium
GKSPEED20-12S	Grounding Kit, Standard
GKSPEED60-12S	Grounding Kit, High Speed
JSTRIP-12-3	Jacket Stripping Tool
CEAR-12	Connector Grounding Kit
BOOT4-12-4	Feed Through Assembly
BOOT-CP-12	Cushion Plug
RSB-12	Stainless Steel Clamp
TRIM-T01	Hand Tool Kit
Multi-Block Ha	ngers
MBH12-2-F	2 per layer, 1 layer, 2 runs
MBH12-6-F	2 per layer, 3 layers, 6 runs
MBHS12-1-F	1 per layer, 1 layer, 1 run
MBHS12-2-F	1 per layer, 2 layers, 2 runs
MBHS12-3-F	1 per layer, 3 layers, 3 runs





and offers a completes portfolio of jumper cables that meet any requirements.

CELLFLEX Factory-Fit Jumpers are ideal for indoor environments and other locations where jumper connectors do not require weatherproofing.

CELLFLEX SecureFit Booted Jumpers are ideal for outdoor environments and other locations where jumper connectors need to be protected from the elements.

All of our CELLFLEX jumper cables support frequencies up to 6 GHz to simplify your network evolution and protect your investment.

CHOOSE FROM SUPER-FLEXIBLE AND LOW-LOSS JUMPER CABLES

CELLFLEX Factory-Fit Jumpers and CELLFLEX SecureFit Booted Jumpers are designed for seamless connection to our renowned CELLFLEX foam dielectric coaxial cables:



CELLFLEX super-flexible jumper cables combine outstanding bending characteristics and electrical performance to improve quality and efficiency in the most challenging deployment scenarios.

CELLFLEX low-loss jumper cables deliver extremely low attenuation that increases the efficiency of signal transfers in any RF system.

MIX AND MATCH JUMPER CABLE CONFIGURATIONS AND FEATURES TO MEET **APPLICATION AND SITE REQUIREMENTS**

We offer a variety of features and configuration options for each jumper cable type and size. Options include:

- Jacket type: Standard or flame-retardant
- Connector type for each endpoint: NEX10, 4.3-10, N-Type or 7-16 DIN right-angled or straight connectors
- · Performance: UltraPIM or Premium PIM
- Length: 1 m to 20 m or 3 ft to 50 ft

We manufacture and stock the most popular combinations and can deliver custom lengths when required.

SIMPLIFY 4G, 5G AND SMALL CELL DEPLOYMENTS IN CROWDED URBAN **ENVIRONMENTS**

As you upgrade and add network technologies to already-crowded sites, the ability to make more coaxial cable connections in smaller spaces is crucial.

CELLFLEX super-flexible 1/4-inch jumpers with miniaturized NEX10 and 4.3-10 connectors make urban installations faster and easier. They're ideal for installations in highly constrained spaces, such as street poles, and for short-distance connections. To ensure optimal attenuation over longer distances, rely on our low-loss 1/2-inch jumper cables.

GET HIGH-PERFORMANCE JUMPER CABLES FOR ANY APPLICATION, ANY SIZE

MAINTAIN ULTRA-HIGH PERFORMANCE END-TO-END

You can't afford to compromise on performance. Jumper cables that provide the ultimate in electrical performance are essential to guarantee end-to-end transmission line performance and support the next generations of applications.

CELLFLEX jumper cables feature our industry-leading UltraPIM performance, and we guarantee the performance specifications for every jumper cable.

All of our jumpers are fully tested for PIM, VSWR (return loss) and interface performance. Test results are available online for products sold globally.

GET MORE VALUE FROM EXISTING EQUIPMENT

We understand your need to extract maximum value from the investments you've already made in network equipment.

While some jumper cable vendors are discontinuing older connector types, such as N-Type and 7-16 DIN, we continue to offer the interfaces.

BRING US YOUR TOUGHEST DEPLOYMENT CHALLENGES

We have the expertise and experience needed to adapt our jumper designs and deliver innovative, custom jumper cables that are designed to meet your unique requirements and resolve the most difficult installation challenges.

One of our recent innovations includes jumper cables with shortened, molded boots that fit within the available space on a specific outdoor small cell radio while still allowing a plastic cover to close over the end of the jumper.

SUPPORT DEPLOYMENTS ANYWHERE IN THE WORLD

We understand your need to extract maximum value from the investments you've already made in network equipment While some jumper cable vendors are discontinuing older connector types, such as N-Type and 7-16 DIN, we continue to offer the interfaces.

CLUSTER CONNECTORS



Make More Jumper Connections in Less Space

Our innovative new jumper cables with RF cluster connectors are ideal for connecting to highly integrated antennas that have a large number of RF ports in a very compact footprint.

Each cluster connector supports connections to multiple RF ports to enable

connections to more than 20 multiband 4T4R and 8T8R ports within the space of a typical antenna end cap.

Simplify your next deployment using cluster jumpers with MQ4/MQ5 connectors or M-LOC systems.

LEARN MORE





PROTECT CRITICAL CONNECTIONS WITH THE ULTIMATE WEATHERPROOFING BOOT

RFS CELLFLEX SecureFit Booted Jumpers feature specially designed, injection-molded weatherproof boots that protect jumper connections from all forms of moisture — from rain to snow and ice — as well as salt, sand, dust and other contaminants that can corrode connectors, degrade connection quality and reduce connector lifespan.



CELLFLEX SecureFit Booted Jumpers are available in a wide variety of RFS jumper cables sizes, for all RFS-supported connector types and 1 all RFS jumper configurations. In 2022, RFS has added smaller cable izes and more models with right-angle and NEX10 connectors to the product portfolio.

Vith the addition of the new jumper models, RFS' SecureFit Booted umper portfolio now includes the following jumper sizes and factory-astalled connectors:

- 1/4-inch and 3/8-inch jumpers with 4.3-10 or NEX10 connectors
- 1/2-inch jumpers with right-angle connectors
- 1/2-inch jumpers with NEX10 connectors

he boot's sleek, close-fitting design results in a small footprint that's deal to protect any connection, including connections to multi-port equipment with tight connector spacing.

UPGRADE TO FASTER, EASIER WEATHERPROOFING WITH CELLFLEX SECUREFIT BOOTED JUMPERS

With CELLFLEX SecureFit Booted Jumpers, you can quickly and easily add an additional level of sealing and strain relief to any connection with no need for installers to waste time and effort applying and removing sealing tape.

Installers can connect and disconnect our SecureFit Booted Jumpers far faster and easier than they can when sealing tape is used to protect connections. And no waste is generated, so installers never have to worry about garbage removal or clutter while they're working high on towers. There's also no that risk that jumper cables can be damaged or installers injured as is the case when a knife is used to remove sealing tape from connections.

ENSURE CONSISTENT AND RELIABLE WEATHERPROOFING ON ALL CONNECTIONS

The SecureFit boot design is the same no matter which connector type you're using or which equipment you're connecting to.

The ergonomic boot design allows installers to use a single hand to easily slide the boot into place over the connection and to remove the boot when needed. Installers quickly master the technique and can apply consistent and reliable weatherproofing across all connections with minimal training.

The lead time for CELLFLEX SecureFit Booted Jumpers is the same as our CELLFLEX Factory-Fit Jumpers, so there are no delays when booted jumpers are required.

Protect your network investment and maintain premium performance with a reliable and exceptionally easy weatherproofing solution from RFS



UNLIMITED CONNECTIONS WITH THE RFS ADAPTER SERIES

CONNECTIONS IN THE FIELD JUST GOT EASIER

RFS' new coaxial adapter series provides a fast, easy and cost-effective solution for jumper connections. With a large selection of both straight and right angle adapters, there is a model for every network requirement. Passive intermodulation specifications for all RFS adapters is < -163 dBc.





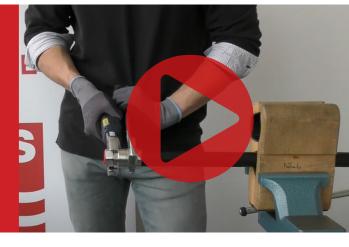




MODEL NUMBER (STRAIGHT)	MODEL NUMBER (RIGHT ANGLE)		
716M-716F	<u>716M-R-716F</u>		
<u>716F-43F</u>	<u>716M-R-716M</u>		
716M-716M	<u>43M-R-43F</u>		
716M-43M	NM-R-NM		
716M-43F	<u>NM-R-NF</u>		
716M-NM	716F-R-716F		
<u>716M-NF</u>	716F-R-43M		
43F-43E	716F-R-43E		
<u>43F-NM</u>	716F-R-NM		
43F-NF	716F-R-NE		
43M-43M	716M-R-43M		
<u>43M-NM</u>	716M-R-43F		
43M-NE	<u>716M-R-NM</u>		
NM-NM	716M-R-NE		
NM-NE	43F-R-43F		
NF-NE	<u>43F-R-NM</u>		
716F-716E	43F-R-NE		
<u>716F-43M</u>	<u>43M-R-43M</u>		
716F-NM	43M-R-NM		
716F-NE	43M-R-NF		
<u>43M-43F</u>	<u>NF-R-NF</u>		

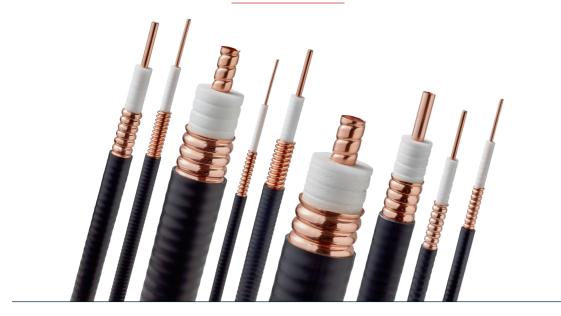
RFS offers a wide range of videos to make installation fast and easy:

- Install premium and standard connectors on CELLFLEX® cables of all sizes
- Install connectors onto RADIAFLEX® cables
- DragonSkin™ premium and standard connector installation
- Watch these and more on the RFS YouTube channel



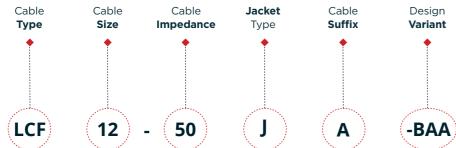






UNDERSTANDING CABLE MODEL NAMES

All RFS coaxial cable model names are based on a naming structure that tells you:



	LCF CABLE TYPE		12 CABLE SIZE	- 10	50 CABLE MPEDENCE		J JACKET TYPE		CABLE SUFFIX		-BAA DESIGN VARIANT
LCF	Low attenuation foam dielectric, corrugated	14	1/4-inch	50	50 Ohm	J	Standard PE Jacket	Α	Low Loss Premium Attenuation	-с	China
LCFS	Corrugated IC	38	3/8-inch	75	75 Ohm	JFN	Flame Retardant LSZH Jacket	В	B Type – Lower technical performance	-D	Germany
SCF	Superflexible	12	1/2-inch			CPR	Specific CPR Jacket	L	Light cable – Aluminum OC	-U	USA
SCFS	Superflexible, standardized version	78	7/8-inch	=				GR	Grey Jacket RAL7004	-BAA	Compliant to th Buy America Ac
UCF	Ultraflexible, corrugated IC	114	1-1/4-inch	-				RP	Rodent Protection – Nylon Jacket	-B2	CPR rating B2
		158	1-5/8-inch	_				TC	Phase stabilized after temerature cycles	-B2d2	CPR rating B2d2
				_				w	White Jacket	-B2d0	CPR rating B2d0
										-Cd2	CPR rating Cd2
										-Cd0	CPR rating Cd0
										-Dx	CPR rating D?



UNDERSTANDING JUMPER MODEL NAMES

All RFS jumper model names are based on a naming structure that tells you:



7M	& 43N	1
CON	INECTORS	;
	A & B	

	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
43MR	4.3-10 Male Right Angle
NM	N-Type Male
NF	N-Type Female
NMR	N-Type Male Right Angle
NXM	NEX10 Male
7MB	7-16 Male with Weatherboots
7MRB	7-16 Male Right Angle with Weatherboots
43MB	4.3-10 Male with Weatherboots
43MRB	4.3-10 Male Right Angle withWeatherboots
NMB	N-Type Male with Weatherboots
NMRB	N-Type Male Right Angl with Weatherboots
NXMB	NEX10 Male with Weatherboots

S12 CABLE

L38 3/8" Low Loss Coax

L12 1/2" Low Loss Coax

\$14 1/4" Superflexible Coax \$38 3/8" Superflexible Coax \$12 1/2" Superflexible Coax

	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
43MR	4.3-10 Male Right Angle
NM	N-Type Male
NF	N-Type Female
NMR	N-Type Male Right Angle
NXM	NEX10 Male
7МВ	7-16 Male with Weatherboots
7MRB	7-16 Male Right Angle with Weatherboots
43MB	4.3-10 Male with Weatherboots
43MRB	4.3-10 Male Right Angle withWeatherboots
NMB	N-Type Male with Weatherboots
NMRB	N-Type Male Right Angle with Weatherboots
NXMB	NEX10 Male with Weatherboots

JACKET TYPE

JFN Flame Retardant Blank PE

0100 CABLE LENGTH*

	ENGIH*
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

* 4 digits indicate meter length, 3 digits indicate feet length Others lengths available on request

JUMPER PERFORMANCE

FFP Factory-Fit Premium **UPM** Ultra PIM Performance**

** Available on request





RADIO FREQUENCY SYSTEMS



TO SERVE YOU BETTER

Any questions comments or suggestions that would help us improve our products and services? **Scan this QR code!**