Разъемы для коаксиального кабеля 1/2"

Технический паспорт изделия

- Кабельная группа LCF12-50
- Производство RFS (Radio Frequency Systems)

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Примечание. Для перехода на нужную вам страницу кликните по ссылке

43F-LCF12-C03



4.3-10 Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

FITTM high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector- cable interface while simplifying and speeding up connector attachment. The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque to meet PIM performance.

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43F-LCF12-C03

FEATURES / BENEFITS

- Ocst effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network
- performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
 - RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

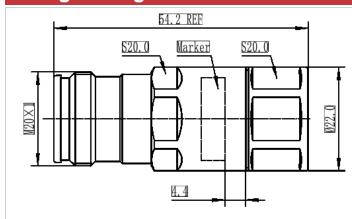
Technical Features

Transmission Line Type		Coaxial Cable
Transmission Line Type		
Cable Size		1/2"
Cable Type		Foam Dielectric
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		4.3-10
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Female
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-162 ; typical -166
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.10 (26.4) 5.0 < f Š 6.0 GHz: 1.25 (19.1)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	54.2 (2.13)
Outer Diameter	mm (in)	22 (0.87)
Weight	kg (lb)	0.075 (0.17)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02
TESTING AND ENVIRONMENTAL		
Waterproof Level		IP68

43F-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



4.3-10 Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



43F-LCF12-C03 Outline Drawing

External Document Links

Notes

Installation instruction

В начало документа

43F-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com

43F-LCF12-D01



4.3-10 Female Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compressionfits to the jacket.



OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- ℈ Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- ℈ OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- ✐ Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental
- ℈ Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GENERAL SPECIFICAT	IONS
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Transmission Line Type	Coaxial Cable		
Cable Size	1/2"		
Cable Type	Foam Dielectric		
Model Series LCF12-50 Series, ICA12-50 Series, RCF12-50 Series			
Connector Interface	4.3-10		
Connector Type	OMNI FIT™ PREMIUM Straight		
Sealing Method	Polymer claw + 360° Compression		
Gender	Female		

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.1) 1.0 < f Š 2.7 GHz: 1.03 (36.6) 2.7 < f Š 3.7 GHz: 1.06 (30.7) 3.7 < f Š 5.0 GHz: 1.08 (28.3) 5.0 < f Š 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner	NiTin/Silver
Inner Contact Attachment	Basket
Outer Contact Attachment	360° clamping

ACCESSORIES

Wrench size front	mm (in)	22 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01, TRIM-LCF12-D01-A
TESTING AND ENVIRONMENTAL		

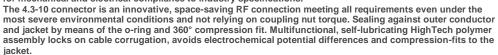
Waterproof Level	IP68

External	Document	Links
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Notes

Installation Instruction

43F-LCF12-D01 REV: A REV DATE: 29.Sep.2016 www.rfsworld.com OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.





www.rfsworld.com

FEATURES / BENEFITS

- (a) Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

REV: A

43F-LCF12-E01

43F-LCF12-E01 Technical Features

ENERAL OREGINATIONS		
ENERAL SPECIFICATIONS		
ransmission Line Type		Coaxial Cable
able Size		1/2"
ble Type		Foam Dielectric
del Series		LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
nector Interface		4.3-10
nector Type		OMNI FIT™ PREMIUM Straight
ing Method		Sealing Rubber + 360° Clamping
der		Female
CTRICAL SPECIFICATIONS		
ninal Impedance	Ohm	50
Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
imum Frequency	GHz	6.0
WR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.1) 1.0 < f Š 2.2 GHz: 1.03 (37.0) 2.2 < f Š 2.7 GHz: 1.03 (36.0) 2.7 < f Š 3.8 GHz: 1.06 (31.0) 3.8 < f Š 5.0 GHz: 1.11 (26.0) 5.0 < f Š 6.0 GHz: 1.15 (23.0)
HANICAL SPECIFICATIONS		
ng Outer/Inner		NiTin/Silver
th	mm (in)	62.7 (2.47)
r Diameter	mm (in)	25 (0.98)
ht	kg (lb)	103.4 (0.228)
Contact Attachment		Basket
r Contact Attachment		360° clamping
ESSORIES		
nch size front	mm (in)	22 (7/8)
nch size rear	mm (in)	22 (7/8)
ming Tool		TRIM-SET-L12-D01, TRIM-LCF12-D01-A
TING AND ENVIRONMENTAL		
erproof Level		IP68
age Temperature	°C (°F)	-10 to 40 (14 to 104)
eration Temperature	°C(°F)	-40 to 85 (-40 to 185)

В начало документа

REV DATE: 15.Jun.2020

External Document Links	Notes		
Installation Instruction			
43F-LCF12-E01 RE	V: A	REV DATE: 15.Jun.2020	www.rfsworld.com

В начало документаРаде 2 of 2



4.3-10 Male Hand-Screw Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque to meet PIM performance.

Hand-Screw attachment mechanism that is ideal for indoor and outdoor spaces where installation must be completed using only one hand.



43MH-LCF12-C03

FEATURES / BENEFITS

- Ost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis
- Hand-Screw Type connector could be torqued by hand, possesses special feature to prevent unwanted loosening of the coupling nut which could fit for both indoor and outdoor application where small installation space is required to accommodate one of the hands

Technical Features

GENER/	AL SP	ECIFI	CATI	ONS
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Transmission Line Type	Coaxial Cable	
Cable Size	1/2"	
Cable Type	Foam Dielectric Radiating	
Model Series	LCF12-50 Series ICA12-50 Series RCF12-50 Series	
Connector Interface	4.3-10 Hand-Screw	
Connector Type	OMNI FIT™ Standard	
Sealing Method	O-ring	
Gender	Male	

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-162 ; typical -166
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.10 (26.4) 5.0 < f Š 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	51 (2)
Outer Diameter	mm (in)	25 (1)
Weight	kg (lb)	0.081 (0.18)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02
TECTING AND ENVIRONMENTAL		

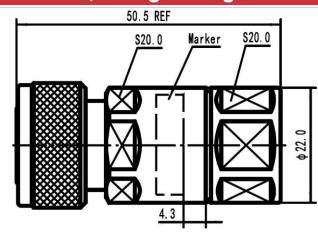
TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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43MH-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



4.3-10 Male Hand-Screw Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



43MH-LCF12-C03 Outline drawing

External Document Links

Notes

Installation Instruction

В начало документа

43MH-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



4.3-10 Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, Oring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque to meet PIM performance.

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- ℈ Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- ℈ Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- ℈ Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

43M-LCF12-C03

Technical Features

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Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Radiating
Model Series	LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface	4.3-10
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-162 ; typical -166
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.10 (26.4) 5.0 < f Š 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	51 (2)
Outer Diameter	mm (in)	25 (1)
Weight	kg (lb)	0.075 (0.17)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02
TEOTING AND ENVIRONMENTAL		

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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43M-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com

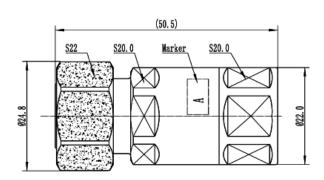
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В начало документа



4.3-10 Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



43M-LCF12-C03 Outline Drawing

External Document Links

Notes

Installation Instruction

В начало документа

43M-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com

43M-LCF12-D01



4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.



OMNI FIT™ Premium Connectors

Page 1 of 2

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GENERAL	SPECIFI	CATIONS
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Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	4.3-10
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	Polymer claw + 360° Compression
Gender	Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6.0
VSWR, Return Loss		0 < f Š 1.0 GHz: 1.02 (40.1) 1.0 < f Š 2.7 GHz: 1.03 (36.6) 2.7 < f Š 3.7 GHz: 1.06 (30.7) 3.7 < f Š 5.0 GHz: 1.08 (28.3) 5.0 < f Š 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	59.4 (2.34)
Outer Diameter	mm (in)	30.2 (1.18)
Weight	kg (lb)	0.126 (0.28)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	22 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01, TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

В начало документа

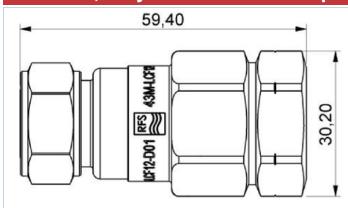
Waterproof Level	IP68

43M-LCF12-D01 REV: C REV DATE: 22.Sep.2017 www.rfsworld.com

- 10 -



4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Polymer claw and compression sealing



43M-LCF12-D01 Outline Drawing

External Document Links

Notes

Installation Instruction

В начало документа

43M-LCF12-D01 REV: C REV DATE: 22.Sep.2017 www.rfsworld.com

43M-LCF12-E01



4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, O-Ring and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque. Sealing against outer conductor and jacket by means of the o-ring and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the lacket



FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

CEN	CDEC	TIONS

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	4.3-10
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	O-ring + 360° Compression
Gender	Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.2 GHz: 1.03 (37.0) 2.2 < f Š 2.7 GHz: 1.03 (36.0) 2.7 < f Š 3.8 GHz: 1.06 (31.0) 3.8 < f Š 5.0 GHz: 1.11 (26.0) 5.0 < f Š 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	54.7 (2.15)
Outer Diameter	mm (in)	23 (0.91)
Weight	kg (lb)	0.096 (0.21)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	22 / 24 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01, TRIM-LCF12-D01-A
TESTING AND ENVIDONMENTAL		

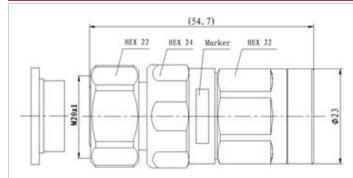
TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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43M-LCF12-E01 REV: A REV DATE: 18.Feb.2020 www.rfsworld.com



4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, O-Ring and compression sealing



External Document Links

Notes

Installation Instruction

В начало документа

43M-LCF12-E01 REV: A REV DATE: 18.Feb.2020 www.rfsworld.com



4.3-10 Male Push-Pull Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque to meet PIM performance.

Push-Pull lock and unlock attachment mechanism that is ideal for the smallest installation spaces.

FEATURES / BENEFITS

- Ost effective two-piece design for safe and easy installation
- Ompatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis
- Push-Pull Type connector possesses special mechanical design to support quickest lock & unlock feature within the most confined smallest installation space where only accommodates one of the hands

43MP-LCF12-C03

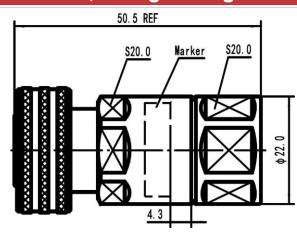
Technical Features

GENERAL SPECIFICATIONS				
Transmission Line Type		Coaxial Cable		
Cable Size		1/2"		
Cable Type		Foam Dielectric Radiating		
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series		
Connector Interface		4.3-10 Push-Pull		
Connector Type		OMNI FIT™ Standard		
Sealing Method		O-ring		
Gender		Male		
ELECTRICAL SPECIFICATIONS				
Nominal Impedance	Ohm	50		
3rd Order IM Product @ 2x20 Watts	dBc	-162 ; typical -166		
Maximum Frequency	GHz	6.0		
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.10 (26.4) 5.0 < f Š 6.0 GHz: 1.25 (19.1)		
MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Trimetal/Silver		
Length	mm (in)	51 (2)		
Outer Diameter	mm (in)	25 (1)		
Weight	kg (lb)	0.085 (0.18)		
Inner Contact Attachment		Spring Finger		
Outer Contact Attachment		Spring C-Ring		
ACCESSORIES				
Wrench size front	mm (in)	20 (13/16)		
Wrench size rear	mm (in)	20 (13/16)		
Trimming Tool		TRIM-SET-L12-C02		
TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		
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43MP-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



4.3-10 Male Push-Pull Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



43MP-LCF12-C03 Outline drawing

External Document Links

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Installation Instruction

В начало документа

43MP-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com

43MR-LCF12-D01



4.3-10 Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.



OMNI FIT™ Premium Connectors

Page 1 of 1

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features GENERAL SPECIFICATIONS

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCE12-50 Series ICA12-50 Series RCE12-50 Series

 Model Series
 LCF12-50 Series, ICA12-50 Series, RCF12-50 Series

 Connector Interface
 4.3-10

 Connector Type
 OMNI FIT™ PREMIUM Right Angle

 Sealing Method
 Polymer claw + 360° Compression

ender Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance

·		
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 2.2 GHz: 1.04 (34.2) 2.2 < f Š 2.7 GHz: 1.06 (30.7) 2.7 < f Š 3.7 GHz: 1.13 (24.3) 3.7 < f Š 5.0 GHz: 1.20 (20.8) 5.0 < f Š 6.0 GHz: 1.33 (17.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	66.1 (2.6)
Outer Diameter	mm (in)	47.2 (1.86)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

50

ACCESSORIES

Wrench size front	mm (in)	22 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01, TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Installation Instruction

В начало документа

Waterproof Level	IP68

External	Document Links	Notes

43MR-LCF12-D01 REV: B REV DATE: 26.Oct.2016 www.rfsworld.com

716F-LCF12-C02





7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.

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OMNI FIT™ Standard Connectors

FEATURES / BENEFITS

- Ost effective two-piece design for safe and easy installation
- Ompatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

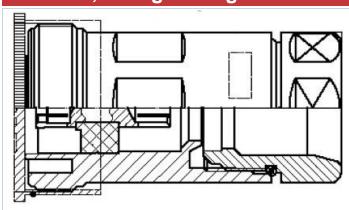
Technical Features

GENERAL SPECIFICATIONS		
Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric Radiating
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Female
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	56.6 (2.2)
Outer Diameter	mm (in)	28.9 (1.1)
Weight	kg (lb)	0.14 (0.31)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
TESTING AND ENVIRONMENTAL		
Waterproof Level		IP68

716F-LCF12-C02 REV: E REV DATE: 23.September www.rfsworld.com 2014



7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



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716F-LCF12-C02 REV: E REV DATE: 23.September www.rfsworld.com

B начало документа Page 2 of 2

716F-LCF12-C03





716F-LCF12-C03

7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.

FEATURES / BENEFITS

- Ost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

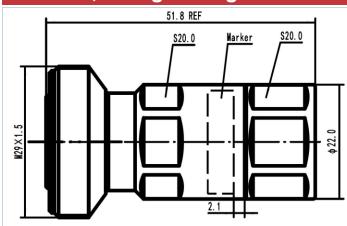
Technical Features

GENERAL SPECIFICATIONS		
Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric Radiating
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Female
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.15 (23.1) 5.0 < f Š 6.0 GHz: 1.25 (19.1)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	51.8 (2)
Outer Diameter	mm (in)	29 (1.14)
Weight	kg (lb)	0.084 (0.185)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	20 (0.79)
Wrench size rear	mm (in)	20 (0.79)
Trimming Tool		TRIM-SET-L12-C02
TESTING AND ENVIRONMENTAL		·
Waterproof Level		IP68

716F-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



716F-LCF12-C03 Outline drawing

External Document Links

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В начало документа

716F-LCF12-C03 REV: B REV DATE: 07.Oct.2018 **www.rfsworld.com**

716F-LCF12-D01



7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.

OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- ℈ Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- ℈ OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- ℈ Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

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Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	7-16 DIN
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	Polymer claw + 360° Compression
Gender	Female

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.7 GHz: 1.03 (36.6) 2.7 < f Š 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	52.2 (2.05)
Outer Diameter	mm (in)	30.2 (1.19)
Weight	kg (lb)	0.12 (0.26)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping
ACCESSORIES		

ACCESSORIES

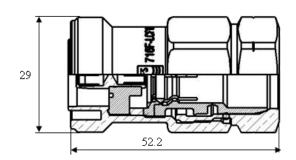
Wrench size front	mm (in)	27 (1-1/16)
Wrench size rear	mm (in)	27 (1-1/16)
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A
TESTING AND ENVIRONMENTAL		

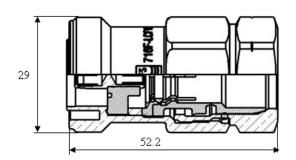
TEOTING AND ENVIRONMENTAL		
Waterproof Level	IP68	

716F-LCF12-D01 REV: F **REV DATE: 27.06.2013** www.rfsworld.com



7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing





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716F-LCF12-D01 REV: F REV DATE: 27.06.2013 www.rfsworld.com

716F-LCF12-E01





7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the o-ring and 360° compression fit.



FEATURES / BENEFITS

- (a) Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

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Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric
Model Series		LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ PREMIUM Straight
Sealing Method		O-ring + 360° Compression
Gender		Female
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50

3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.2 GHz: 1.03 (37.0) 2.2 < f Š 2.7 GHz: 1.03 (36.0) 2.7 < f Š 3.8 GHz: 1.06 (31.0) 3.8 < f Š 5.0 GHz: 1.11 (26.0) 5.0 < f Š 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	60.05 (2.36)
Outer Diameter	mm (in)	23 (0.91)
Weight	kg (lb)	0.12 (0.26)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping
ACCESSORIES		

Wrench size front	mm (in)	24 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

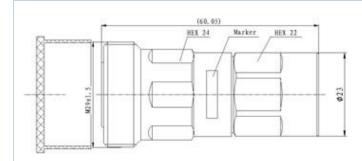
Waterproof Level	IF	P68

716F-LCF12-E01 REV: A REV DATE: 18.Feb.2020 www.rfsworld.com

В начало документа



7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing



External Doc	ument l	Links
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716F-LCF12-E01 REV: A REV DATE: 18.Feb.2020 www.rfsworld.com



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.



OMNI FIT™ Standard Connectors

FEATURES / BENEFITS

- Ost effective two-piece design for safe and easy installation
- Ocmpatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

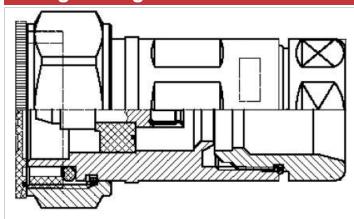
Technical Features

Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric Radiating
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Male
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	60.1 (2.4)
Outer Diameter	mm (in)	36 (1.417)
Weight	kg (lb)	0.17 (0.37)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
Trimming Tool		TRIM-SET-L12-C02
TESTING AND ENVIRONMENTAL		
Waterproof Level		IP68

716M-LCF12-C02 REV: G REV DATE: 26.Oct.2016 www.rfsworld.com



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



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716M-LCF12-C02 REV: G REV DATE: 26.Oct.2016 www.rfsworld.com



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, **O-ring sealing**

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.

FEATURES / BENEFITS

- ℈ Cost effective two-piece design for safe and easy installation
- ℈ Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- ℈ Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

716M-LCF12-C03

Technical Features

GENERAL SPECIFICATIONS	
Transmission Line Type	

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Radiating
Model Series	LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface	7-16 DIN
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Mala

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.15 (23.1) 5.0 < f Š 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	52.8 (2.08)
Outer Diameter	mm (in)	36 (1.42)
Weight	kg (lb)	0.105 (0.23)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

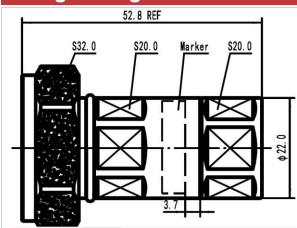
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02
TESTING AND ENVIRONMENTAL		

Waterproof Level	IP68	

716M-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



716M-LCF12-C03 Outline drawing

External Document Links

Notes

Application Note

Installation instruction

В начало документа

716M-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com

716M-LCF12-D01



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the polymer claw and 360 compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.

OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- ℈ Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- ℈ OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- ℈ Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GEN	ERAL	SPEC	IFIC <i>P</i>	ATIONS

CENERAL OF ESTITION OF THE STATE OF ESTITION OF THE STATE OF ESTITION OF THE STATE			
Transmission Line Type	Coaxial Cable		
Cable Size	1/2"		
Cable Type	Foam Dielectric		
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series		
Connector Interface	7-16 DIN		
Connector Type	OMNI FIT™ PREMIUM Straight		
Sealing Method	Polymer claw + 360° Compression		
Gender	Male		

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.7 GHz: 1.03 (36.6) 2.7 < f Š 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	55.8 (2.2)
Outer Diameter	mm (in)	32 (1.26)
Weight	kg (lb)	0.15 (0.33)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

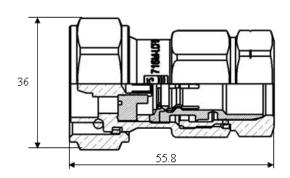
Wrench size front	mm (in)	26
Wrench size rear	mm (in)	26
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A
TESTING AND ENVIRONMENTAL		

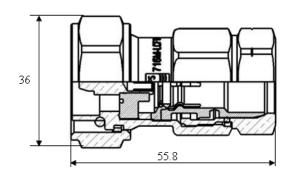
Waterproof Level	IP68
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716M-LCF12-D01 REV: F REV DATE: 15.May.2013 www.rfsworld.com



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing





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Notes

Installation Instruction

В начало документа

716M-LCF12-D01 REV: F REV DATE: 15.May.2013 www.rfsworld.com

716M-LCF12-E01



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the o-ring and 360□ compression fit.



FEATURES / BENEFITS

- (a) Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features GENERAL SPECIFICATIONS

SERENCE OF ESTITIONS		
Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric
Model Series		LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ PREMIUM Straight
Sealing Method		o-ring + 360° Compression
Gender		Male
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.2 GHz: 1.03 (37.0) 2.2 < f Š 2.7 GHz: 1.03 (36.0) 2.7 < f Š 3.8 GHz: 1.06 (31.0) 3.8 < f Š 5.0 GHz: 1.11 (26.0) 5.0 < f Š 6.0 GHz: 1.15 (23.0)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	56.7 (2.23)
Outer Diameter	mm (in)	23 (0.91)
Weight	kg (lb)	0.128 (0.28)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping
ACCESSORIES		
Wrench size front	mm (in)	32 / 24
Wrench size rear	mm (in)	22
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A
TESTING AND ENVIRONMENTAL		

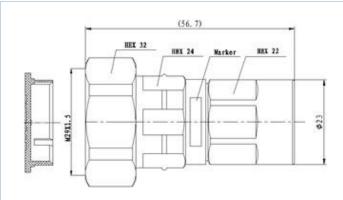
716M-LCF12-E01 REV: A REV DATE: 18.Feb.2020 www.rfsworld.com

IP68

Waterproof Level



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing



Externa	Document	Links
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Notes

Installation Instruction

В начало документа

716M-LCF12-E01 REV: A REV DATE: 18.Feb.2020 www.rfsworld.com



7-16 DIN Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.



OMNI FIT™ Standard Connectors

FEATURES / BENEFITS

- Ost effective two-piece design for safe and easy installation
- Ompatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

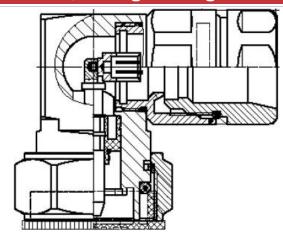
Technical Features

GENERAL SPECIFICATIONS		
Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ Standard Right Angle
Sealing Method		O-Ring
Gender		Male
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.04 (34.1) 1.0 < f Š 2.2 GHz: 1.07 (29.4) 2.2 < f Š 2.7 GHz: 1.09 (27.3) 2.7 < f Š 3.7 GHz: 1.13 (null)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	60 (2.4)
Outer Diameter	mm (in)	48 (1.9)
Weight	kg (lb)	0.25 (0.55)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
TESTING AND ENVIRONMENTAL		
Waterproof Level		IP68

716MR-LCF12-C02 REV: F REV DATE: 23.September www.rfsworld.com 2014



7-16 DIN Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links

Notes

Application Note Installation instruction

716MR-LCF12-C02

REV: F

REV DATE: 23.September

www.rfsworld.com

2014



7-16 DIN Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.



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716MR-LCF12-C03

FEATURES / BENEFITS

- Ost effective two-piece design for safe and easy installation
- Ompatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

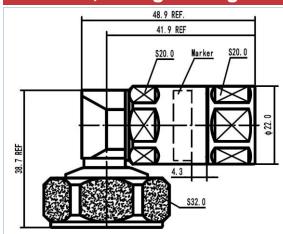
В начало документа

Transmission Line Type		Coaxial Cable
Cable Size		1/2"
		
Cable Type		Foam Dielectric
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ Standard Right Angle
Sealing Method		O-Ring
Gender		Male Right Angle
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.04 (34.1) 1.0 < f Š 2.2 GHz: 1.07 (29.4) 2.2 < f Š 2.7 GHz: 1.09 (27.3) 2.7 < f Š 3.7 GHz: 1.13 (24.3) 3.7 < f Š 5.0 GHz: 1.25 (19.1) 5.0 < f Š 6.0 GHz: 1.30 (17.7)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	57.9 (2.28)
Outer Diameter	mm (in)	38.7 (1.5)
Weight	kg (lb)	0.135 (0.3)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
TESTING AND ENVIRONMENTAL		
Waterproof Level		IP68
waterproof Level		11 00

716MR-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



7-16 DIN Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



716MR-LCF12-C03 Outline drawing

External Document Links

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В начало документа

716MR-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.



OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

		ATIONS

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	7-16 DIN
Connector Type	OMNI FIT™ PREMIUM Right Angle
Sealing Method	Polymer claw + 360° Compression
Gender	Male

NiTin/Silver

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.04 (34.1) 1.0 < f Š 2.0 GHz: 1.06 (30.7) 2.0 < f Š 2.7 GHz: 1.08 (28.3) 2.7 < f Š 3.7 GHz: 1.10 (26.4)

MECHANICAL SPECIFICATIONS

mm (in)	64.6 (2.54)
mm (in)	41.3 (1.63)
kg (lb)	0.22 (0.49)
	Basket
	360° clamping
	mm (in)

ACCESSORIES

Plating Outer/Inner

wrench size front	mm (in)	32 (1-1/4)
Wrench size rear	mm (in)	26
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

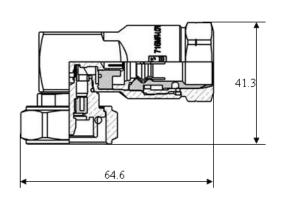
TESTING AND ENVIRONMENTAL

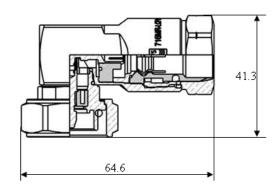
Waterproof Level	IP68

716MR-LCF12-D01 REV: G REV DATE: 15.Aug.2013 www.rfsworld.com



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, Polymer claw and compression sealing





External Document Links

Notes

Installation Instruction

В начало документа

716MR-LCF12-D01 REV: G REV DATE: 15.Aug.2013 www.rfsworld.com

78EIA-LCF12-002





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7/8" EIA Connector for 1/2" Coaxial Cable, Straight O-ring sealing, Brass/Silver

Radio Frequency Systems line of high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to CELLFLEX® coaxial cables. RFS connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. To join two cables with EIA connectors, two identical socket connectors are installed on either end of the cables to be joined, and a coupling element is used to make the connection of the center conductor. The coupling element must be ordered separately with the exception of the S-Line male versions that have a captivated coupling element. Connectors are available in sizes matching the nominal cable size. EIA connectors provide optimal power handling for the complete transmission line system.



FEATURES / BENEFITS

- Waterproof The only totally waterproof connector in the industry. Compliant with IP68 water immersion testing. Press fit contact/bead O-ring keeps out moisture and prevents vacuum build-up and air exchange due to temperature swings.
- Solderless Captivated spring finger contacts permit quick, easy and precise solderless installation utilizing only basic hand tools. Avoids the potential high impedance risk associated with traditional soldering.
- Self Flaring Self flaring design reduces installation time and thus, saves on labor costs.
- Ocrrosion-Proof Plated Contacts Featured even on standard connectors. Provide improved contact resistance and lower intermodulation.
- Outstanding Electrical Performance Metal to Metal contact between cable and connector no plastic parts used. Secure connection highly resistant to pull-off or twist-off provides long-term mechanical integrity. Resistant to intermodulation after temperature cycling.
- Sasy to Install No special tools needed. Only basic hand tools required. No additional costs to the installer.

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type Coaxial Cable	
Cable Size	1/2"
Cable Type	Foam Dielectric Air Dielectric
Model Series	LCF12-50 Series ICA12-50 Series
Connector Interface	7/8" EIA
Connector Type	Straight
Sealing Method	O-ring
Gender	None

ELECTRICAL SPECIFICATIONS

Trimming Tool

В начало документа

Nominal Impedance	Ohm	50
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Brass/Silver
Length	mm (in)	86.4 (3.4)
Outer Diameter	mm (in)	25.4 (1)
Weight	kg (lb)	0.17 (0.37)
Inner Contact Attachment		Basket
Outer Contact Attachment		Self Flare
ACCESSORIES		
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	21 (7/8)

TRIM-Series-B

Eyternal	Document	Links	Notes
LAIGINA	DUCUITEIL	LIIINO	INDICO

78EIA-LCF12-002 REV: B REV DATE: 22.Apr.2009 www.rfsworld.com

TEV DATE. 22.Apt.2000

NF-LCF12-C02



N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis



OMNI FIT™ Standard Connectors

Technical Features

GENERAL SPECIFICATIONS		
Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric Radiating
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		N
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Female
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	55.4 (2.18)
Outer Diameter	mm (in)	25.9 (1)
Weight	kg (lb)	0.11 (0.24)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
TESTING AND ENVIRONMENTAL		

NF-LCF12-C02 REV: F REV DATE: 03.Mar.2015 www.rfsworld.com

IP68

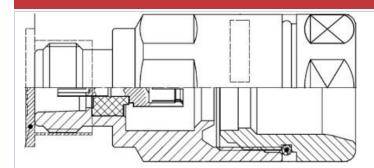
Waterproof Level

NF-LCF12-C02



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N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard



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В начало документа

NF-LCF12-C02 REV: F REV DATE: 03.Mar.2015 www.rfsworld.com

NF-LCF12-C02-6





N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, extended frequency range

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

OMNI FIT™ Standard

Connectors

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GENERAL SPECIFICATIONS		
Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric Radiating
Model Series		LCF12-50 Series ICA12-50 Series
Connector Interface		N
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Female
ELECTRICAL SPECIFICATIONS		
Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 6.0 GHz: 1.08 (28.0)
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	55.4 (2.18)
Outer Diameter	mm (in)	25.9 (1)
Weight	kg (lb)	0.11 (0.24)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
TESTING AND ENVIRONMENTAL		

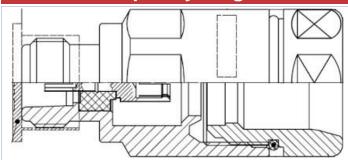
NF-LCF12-C02-6 REV: A REV DATE: 23.Jul.2015 www.rfsworld.com

NF-LCF12-C02-6



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N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, extended frequency range



External Document Links

Notes

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В начало документа

NF-LCF12-C02-6 REV: A REV DATE: 23.Jul.2015 www.rfsworld.com



N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, Oring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment.

FEATURES / BENEFITS

- ℈ Cost effective two-piece design for safe and easy installation
- ⊕ Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses ℈
- ℈ Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- ℈ Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

NF-LCF12-C03

Technical Features GENERAL SPECIFICATIONS

Transmission Line Type	Coaxial Cable
Cable Size	1/2"

Cable Type Foam Dielectric|Radiating Model Series LCF12-50 Series|ICA12-50 Series|RCF12-50 Series

Connector Interface Connector Type OMNI FIT™ Standard **Sealing Method** O-ring

Gender Female

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.15 (23.1) 5.0 < f Š 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	55.3 (2.2)
Outer Diameter	mm (in)	22 (0.87)
Weight	kg (lb)	0.074 (0.163)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		

Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

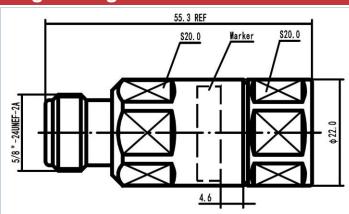
TESTING AND EXTINGUIBENTAL									
Waterproof Level	IP68								

NF-LCF12-C03 REV: B **REV DATE: 07.Oct.2018** www.rfsworld.com

В начало документа



N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



NF-LCF12-C03 Outline drawing

External Document Links

Notes

Installation Instruction

В начало документа

NF-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com

NF-LCF12-D01



N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.



OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Outra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

|--|

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	Polymer claw + 360° Compression
Gender	Female

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-156 ; typical -162
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.7 GHz: 1.03 (36.6) 2.7 < f Š 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	57.1 (2.25)
Outer Diameter	mm (in)	26 (1.02)
Weight	kg (lb)	0.1 (0.22)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping
ACCESSORIES		

ACCESSORIES

Wrench size front	mm (in)	27 (1-1/16)
Wrench size rear	mm (in)	27 (1-1/16)
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A
TECTING AND ENVIRONMENTAL		

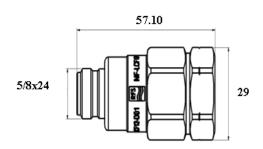
TESTING AND ENVIRONMENTAL

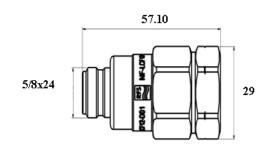
Waterproof Level	IP68

NF-LCF12-D01 REV: F REV DATE: 29.Feb.2016 www.rfsworld.com



N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing





External Document Links

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Installation Instruction

В начало документа

NF-LCF12-D01 REV: F REV DATE: 29.Feb.2016 www.rfsworld.com

NF-LCF12-E01



N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° sealing rubber

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment.

All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications. The N connector meets all technical requirements and covers high frequencies as well as legacy applications. Sealing against outer conductor and jacket by means of o-ring and 360° compression fit.



FEATURES / BENEFITS

- Old Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

							Ю	

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Superflexible
Model Series	LCF12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	sealing rubber
Gender	Female
ELECTRICAL SPECIFICATIONS	

50

ELECTRICAL SPECIFICATIONS

Nominal Impedance

Terminal impodures	Olilli	30
3rd Order IM Product @ 2x20 Watts	dBc	-158 ; typical -162
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.2 GHz: 1.03 (37.0) 2.2 < f Š 2.7 GHz: 1.03 (36.0) 2.7 < f Š 3.8 GHz: 1.07 (30.0) 3.8 < f Š 5.0 GHz: 1.11 (26.0) 5.0 < f Š 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	63.7 (2.51)
Outer Diameter	mm (in)	24 (0.94)
Weight	kg (lb)	0.128 (0.29)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	22		
Wrench size rear	mm (in)	22		
Trimming Tool		TRIM-LCF12-D01-A		
TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		

External Document Links	Notes
Installation Instruction	

NF-LCF12-E01 REV: A REV DATE: 31.Aug.2020 www.rfsworld.com

В начало документа

NFS-LCF12-011



N Female Connector for 1/2" Coaxial Cable, Panel mount Plast 2000 sealing

Radio Frequency Systems line of high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to CELLFLEX® coaxial cables. RFS connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. The N connector is one of the most common RF connector types. N type connectors from RFS will be delivered with a non-slotted outer conductor contact sleeve and a special gasket. Due to a special design of the coupling nut (without spring ring) N connectors can be tightened with increased torque. This increases the contact pressure.



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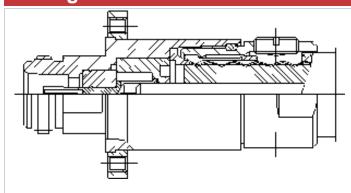
Technical Features				
GENERAL SPECIFICATIONS				
Transmission Line Type		Coaxial Cable		
Cable Size		1/2"		
Cable Type		Foam Dielectric Air Dielectric		
Model Series		LCF12-50 Series ICA12-50 Series		
Connector Interface		N		
Connector Type		Panel mount		
Sealing Method		Plast 2000		
Gender		Female		
ELECTRICAL SPECIFICATIONS				
Nominal Impedance	Ohm	50		
3rd Order IM Product @ 2x20 Watts dBc <-156				
Maximum Frequency GHz 6.0				
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.7 GHz: 1.03 (36.6) 2.7 < f Š 3.8 GHz: 1.08 (28.3)		
MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Silver/Silver		
Length	mm (in)	51 (2)		
Outer Diameter	mm (in)	34 (1.3)		
Weight	kg (lb)	0.19 (0.42)		
Inner Contact Attachment		Basket		
Outer Contact Attachment		Spring Finger		
ACCESSORIES				
Wrench size front	mm (in)	24 (15/16)		
Wrench size rear	mm (in)	19 (3/4)		
Trimming Tool		TRIM-Series-A		
TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		
Sealing Volume	cm³ (ounces)	4 (0.14)		

NFS-LCF12-011 REV: C REV DATE: 12.Nov.2009 www.rfsworld.com

NFS-LCF12-011



N Female Connector for 1/2" Coaxial Cable, Panel mount Plast 2000 sealing



External Document Links

Notes

NFS-LCF12-011 REV: C REV DATE: 12.Nov.2009 www.rfsworld.com

В начало документа

NM-LCF12-C02



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- ℈ Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- ⊕ Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis



OMNI FIT™ Standard Connectors

Technical Features

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Transmission Line Type		Coaxial Cable		
Cable Size		1/2"		
Cable Type		Foam Dielectric Radiating		
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series		
Connector Interface		N		
Connector Type		OMNI FIT™ Standard		
Sealing Method		O-ring		
Gender		Male		
ELECTRICAL SPECIFICATIONS				

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss		0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	58.7 (2.31)
Outer Diameter	mm (in)	25.9 (1)
Weight	kg (lb)	0.12 (0.26)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		

Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
Trimming Tool		TRIM-SET-L12-C02

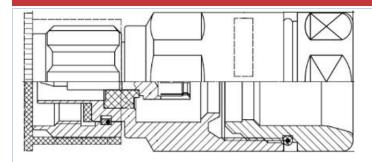
TESTING AND ENVIRONMENTAL

Waterproof Level	IP68	

NM-LCF12-C02 REV: G www.rfsworld.com REV DATE: 26.Oct.2016



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard



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Notes

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В начало документа

NM-LCF12-C02 REV: G REV DATE: 26.Oct.2016 www.rfsworld.com

NM-LCF12-C02-6



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, extended frequency range

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

OMNI FIT™ Standard Connectors

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- ℈ Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- ⊕ Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Radiating
Model Series	LCF12-50 Series ICA12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ Standard

Connector Interface	N
Connector Type	OMNI FIT™ Standard

Sealing Method	O-ring
Gondor	Malo

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 6.0 GHz: 1.08 (28.0)

MECHANICAL SPECIFICATIONS

	Trimetal/Silver
mm (in)	58.7 (2.31)
mm (in)	25.9 (1)
kg (lb)	0.12 (0.26)
	Basket
	Spring C-Ring
	mm (in)

ACCESSORIES

Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
Trimming Tool		TRIM-SET-L12-C02
TESTING AND ENVIRONMENTAL		

Waterproof Level	IP68

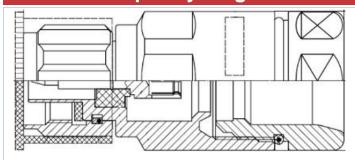
NM-LCF12-C02-6 REV: B www.rfsworld.com REV DATE: 26.Oct.2016

NM-LCF12-C02-6



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N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, extended frequency range



Externa	l Document l	Links
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NM-LCF12-C02-6 REV: B www.rfsworld.com REV DATE: 26.Oct.2016



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment.

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- ⊕ Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses ℈
- ℈ Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- ℈ Waterproof to IP 68 i.e. no downtime risk, secures revenue
- ℈ RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

NM-LCF12-C03

Technical Features GENERAL SPECIFICATIONS

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Radiating
Model Series	LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface	N

Connector Type OMNI FIT™ Standard

Sealing Method O-ring Gender Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.03 (36.6) 1.0 < f Š 2.7 GHz: 1.04 (34.1) 2.7 < f Š 3.7 GHz: 1.08 (28.3) 3.7 < f Š 5.0 GHz: 1.15 (23.1) 5.0 < f Š 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	56.5 (2.23)
Outer Diameter	mm (in)	22 (0.87)
Weight	kg (lb)	0.077 (0.17)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		

Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

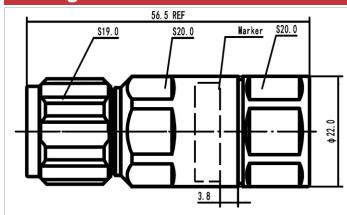
TESTING AND ENVIRONMENTAL

TEGING AND ENVIRONMENTAL				
Waterproof Level	IP68			

NM-LCF12-C03 REV: B **REV DATE: 07.Oct.2018** www.rfsworld.com



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



NM-LCF12-C03 Outline Drawing

External Document Links

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Installation Instruction

В начало документа

NM-LCF12-C03 REV: B REV DATE: 07.Oct.2018 www.rfsworld.com

NM-LCF12-D01



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the polymer claw and 360 compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.

OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- ℈ Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- ℈ OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- ℈ Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GENI	ERAL	SPECI	FICAT	IONS

GENERAL SPECIFICATIONS	
Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	Polymer claw + 360° Compression
Gender	Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-156; typical -162
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.7 GHz: 1.03 (36.6) 2.7 < f Š 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	64.05 (2.52)
Outer Diameter	mm (in)	29 (1.14)
Weight	kg (lb)	0.11 (0.24)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	18
Wrench size rear	mm (in)	26
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A
TESTING AND ENVIRONMENTAL		

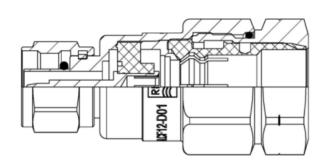
Waterproof Level	IP68

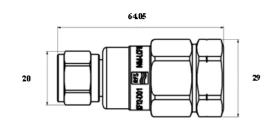
NM-LCF12-D01 REV: F REV DATE: 29.Feb.2016 www.rfsworld.com

В начало документа



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw and compression sealing





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NM-LCF12-D01 REV: F REV DATE: 29.Feb.2016 www.rfsworld.com



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° sealing rubber

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment.

All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications. The N connector meets all technical requirements and covers high frequencies as well as legacy applications. Sealing against outer conductor and jacket by means of o-ring and 360° compression fit.



FEATURES / BENEFITS

- Old Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

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Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Superflexible
Model Series	LCF12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	sealing rubber
Gender	Male
ELECTRICAL SPECIFICATIONS	

50

ELECTRICAL SPECIFICATIONS

Nominal Impedance

		**
3rd Order IM Product @ 2x20 Watts	dBc	-158 ; typical -162
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.02 (40.0) 1.0 < f Š 2.2 GHz: 1.03 (37.0) 2.2 < f Š 2.7 GHz: 1.03 (36.0) 2.7 < f Š 3.8 GHz: 1.07 (30.0) 3.8 < f Š 5.0 GHz: 1.17 (26.0) 5.0 < f Š 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	63.7 (2.51)
Outer Diameter	mm (in)	24 (0.94)
Weight	kg (lb)	0.133 (0.29)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	22
Wrench size rear	mm (in)	22
Trimming Tool		TRIM-LCF12-D01-A
TESTING AND ENVIRONMENTAL		
Waterproof Level		IP68

External Document Links	Notes
Installation Instruction	

NM-LCF12-E01 REV: A REV DATE: 31.Aug.2020 www.rfsworld.com

NMR-LCF12-C02





N Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connectorcable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials ℈ eliminates the risk of faulty connector installation and helps to keep inventory down
- ℈ Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance ⊕
- Waterproof to IP 68 i.e. no downtime risk, secures revenue ℈
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Radiating
Model Series	LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ Standard Right Angle
Sealing Method	O-ring
Gender	Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < f Š 1.0 GHz: 1.04 (34.2) 1.0 < f Š 2.0 GHz: 1.06 (30.7) 2.0 < f Š 2.7 GHz: 1.10 (26.4) 2.7 < f Š 3.7 GHz: 1.12 (24.9) 3.7 < f Š 6.0 GHz: 1.15 (23.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	52.3 (2.06)
Outer Diameter	mm (in)	49.5 (1.95)
Weight	kg (lb)	0.185 (0.408)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring
ACCESSORIES		

Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
TESTING AND ENVIRONMENTAL		

IP68
IP(

External Document Links	Notes
Application Note	

REV: A NMR-LCF12-C02 **REV DATE: 22.Nov.2016** www.rfsworld.com

В начало документа

Installation instruction

NMR-LCF12-D01



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.



OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Outra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features

GEN	ERAL	SPEC	IFIC <i>P</i>	ATIONS

CENERAL OF ESTITIONS	
Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Right Angle
Sealing Method	Polymer claw + 360° Compression
Gender	Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-156 ; typical -162
VSWR, Return Loss	, ,	0 < f Š 1.0 GHz: 1.04 (34.2) 1.0 < f Š 2.0 GHz: 1.06 (30.7) 2.0 < f Š 2.7 GHz: 1.08 (28.3) 2.7 < f Š 3.7 GHz: 1.10 (26.4)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	64.6 (2.54)
Outer Diameter	mm (in)	52.3 (2.06)
Weight	kg (lb)	0.19 (0.42)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	27 (1-1/16)
Wrench size rear	mm (in)	27 (1-1/16)
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

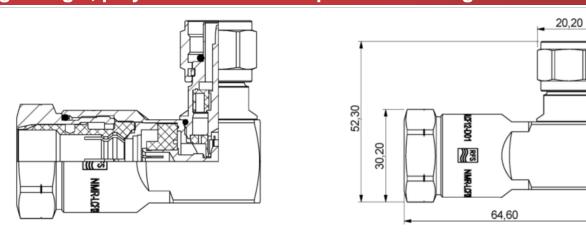
TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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NMR-LCF12-D01 REV: H REV DATE: 10.Jan.2014 www.rfsworld.com



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, polymer claw and compression sealing



External Document Links

Notes

Installation Instruction

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В начало документа

NMR-LCF12-D01



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, polymer claw and compression sealing

Разъемы для фидерного кабеля 1/2 дюйма

ПЕРЕЧЕНЬ

Разъем 43F-LCF12-C03

Разъем 43F-LCF12-D0

Разъем 43F-LCF12-E01

Разъем 43MH-LCF12-C03

Разъем 43M-LCF12-C03

Разъем 43M-LCF12-D01

Разъем 43M-LCF12-E01

Разъем 43MP-LCF12-C03

Разъем 43MR-LCF12-D01

Разъем 716F-LCF12-C02

Разъем 716F-LCF12-C03

Разъем 716F-LCF12-D01

Разъем 716F-LCF12-E01

Разъем 716M-LCF12-C02

Разъем 716M-LCF12-C03

Разъем 716M-LCF12-D01 Разъем 716M-LCF12-E01

Разъем 716MR-LCF12-C02

Разъем 716MR-LCF12-C03

Разъем 716MR-LCF12-D01

Разъем 78EIA-LCF12-002

Разъем NF-LCF12-C02 Разъем NF-LCF12-C02-6

Разъем NF-LCF12-C03

Разъем NF-LCF12-D01

Разъем NF-LCF12-E01

Разъем NFS-LCF12-011

Разъем NM-LCF12-C02

Разъем NM-LCF12-C02-6

Разъем NM-LCF12-C03

В начало документа

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