

Разъемы для коаксиального кабеля 1/2"

Технический паспорт изделия

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

Содержание

	стр
43F-LCF12-C03	1
43F-LCF12-D01	3
43F-LCF12-E01	4
43MH-LCF12-C03	6
43M-LCF12-C03	8
43M-LCF12-D01	10
43M-LCF12-E01	12
43MP-LCF12-C03	14
43MR-LCF12-D01	16
716F-LCF12-C02	17
716F-LCF12-C03	19
716F-LCF12-D01	21
716F-LCF12-E01	23
716M-LCF12-C02	25
716M-LCF12-C03	27
716M-LCF12-D01	29
716M-LCF12-E01	31
716MR-LCF12-C02	33
716MR-LCF12-C03	35
716MR-LCF12-D01	37
78EIA-LCF12-002	39
NF-LCF12-C02	40
NF-LCF12-C02-6	42
NF-LCF12-C03	44
NF-LCF12-D01	46
NF-LCF12-E01	48
NFS-LCF12-011	49
NM-LCF12-C02	51
NM-LCF12-C02-6	53
NM-LCF12-C03	55
NM-LCF12-D01	57
NM-LCF12-E01	59
NMR-LCF12-C02	60
NMR-LCF12-D01	61

Примечание. Для перехода на нужную вам страницу кликните по ссылке

4.3-10 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. 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



43F-LCF12-C03

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		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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.10 (26.4) 5.0 < f ≤ 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

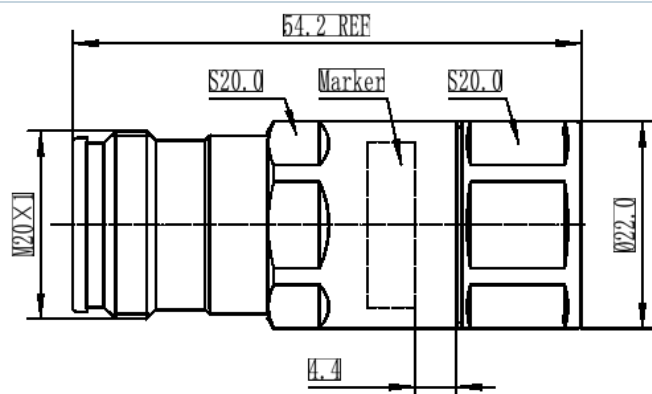
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



43F-LCF12-C03 Outline Drawing

External Document Links

Installation instruction

Notes

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 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

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		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 ≤ 1.0 GHz: 1.02 (40.1) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 3.7 GHz: 1.06 (30.7) 3.7 < f ≤ 5.0 GHz: 1.08 (28.3) 5.0 < f ≤ 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

Notes

Installation Instruction

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 jacket.



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

43F-LCF12-E01

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		4.3-10
Connector Type		OMNI FIT™ PREMIUM Straight
Sealing Method		Sealing Rubber + 360° Clamping
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 ≤ 1.0 GHz: 1.02 (40.1) 1.0 < f ≤ 2.2 GHz: 1.03 (37.0) 2.2 < f ≤ 2.7 GHz: 1.03 (36.0) 2.7 < f ≤ 3.8 GHz: 1.06 (31.0) 3.8 < f ≤ 5.0 GHz: 1.11 (26.0) 5.0 < f ≤ 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	62.7 (2.47)
Outer Diameter	mm (in)	25 (0.98)
Weight	kg (lb)	103.4 (0.228)
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
Storage Temperature	°C (°F)	-10 to 40 (14 to 104)
Operation Temperature	°C(°F)	-40 to 85 (-40 to 185)

43F-LCF12-E01

REV: A

REV DATE: 15.Jun.2020

www.rfsworld.com

[В начало документа](#)

Page 1 of 2

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

[В начало документа](#)

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

- ➔ 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
- ➔ 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

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 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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.10 (26.4) 5.0 < f ≤ 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

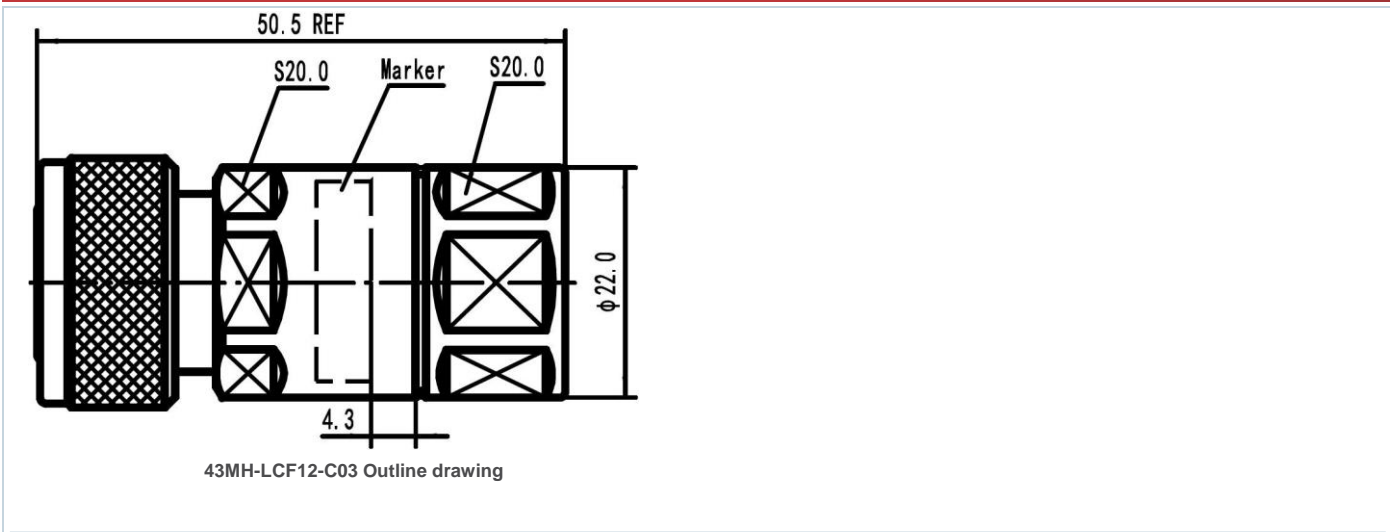
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links	Notes
Installation Instruction	

4.3-10 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. 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

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
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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.10 (26.4) 5.0 < f ≤ 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

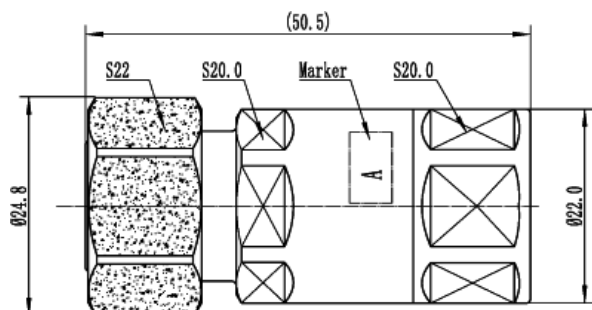
ACCESSORIES

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

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------

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



43M-LCF12-C03 Outline Drawing

External Document Links

[Installation Instruction](#)

Notes



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

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		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	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.1) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 3.7 GHz: 1.06 (30.7) 3.7 < f ≤ 5.0 GHz: 1.08 (28.3) 5.0 < f ≤ 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

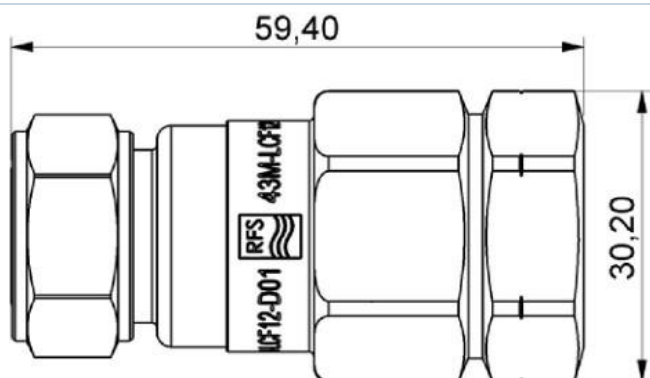
Wrench size front	mm (in)	22 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01, TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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

[Installation Instruction](#)

Notes

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 jacket.



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

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		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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.2 GHz: 1.03 (37.0) 2.2 < f ≤ 2.7 GHz: 1.03 (36.0) 2.7 < f ≤ 3.8 GHz: 1.06 (31.0) 3.8 < f ≤ 5.0 GHz: 1.11 (26.0) 5.0 < f ≤ 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

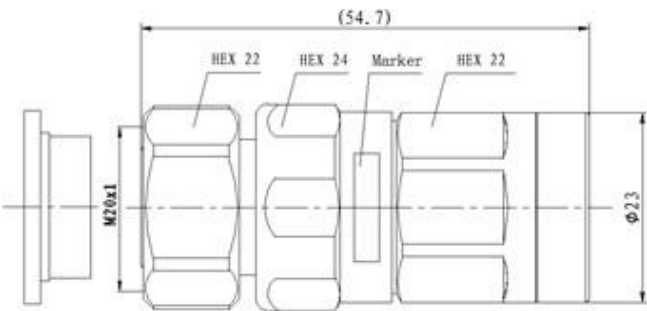
Wrench size front	mm (in)	22 / 24 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01, TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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	

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.



43MP-LCF12-C03

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
- ➡ 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

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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.10 (26.4) 5.0 < f ≤ 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

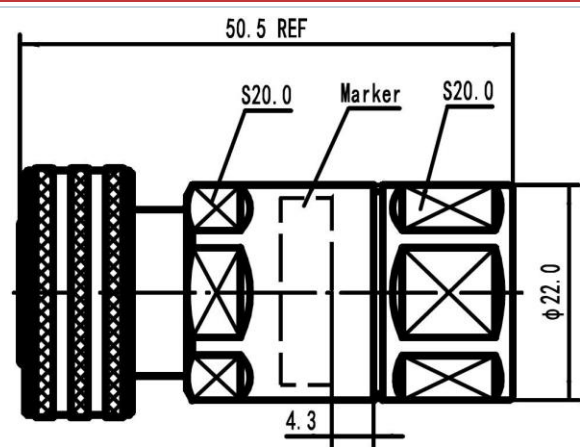
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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	Notes
Installation Instruction	

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

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		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
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 ≤ 2.2 GHz: 1.04 (34.2) 2.2 < f ≤ 2.7 GHz: 1.06 (30.7) 2.7 < f ≤ 3.7 GHz: 1.13 (24.3) 3.7 < f ≤ 5.0 GHz: 1.20 (20.8) 5.0 < f ≤ 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

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

Notes

Installation Instruction

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

- ➡ 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		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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 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

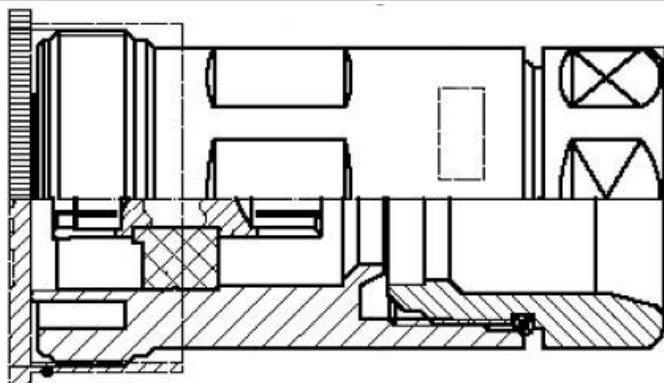
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Application Note
Installation instruction

Notes

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

- ➡ 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



716F-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		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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.15 (23.1) 5.0 < f ≤ 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

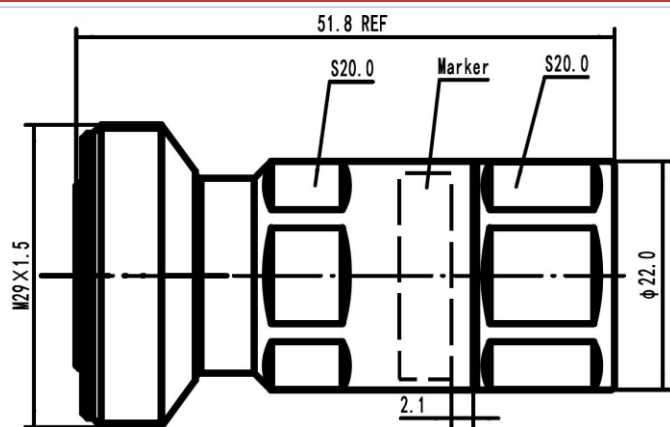
ACCESSORIES

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
------------------	--	------

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



716F-LCF12-C03 Outline drawing

External Document Links

Installation instruction

Notes

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 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

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™ 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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 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

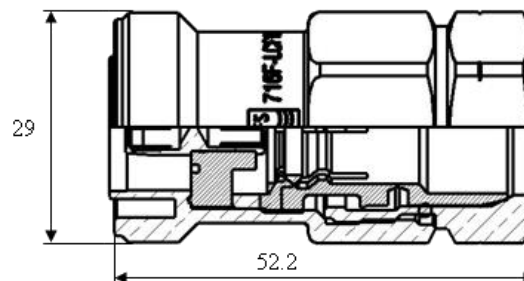
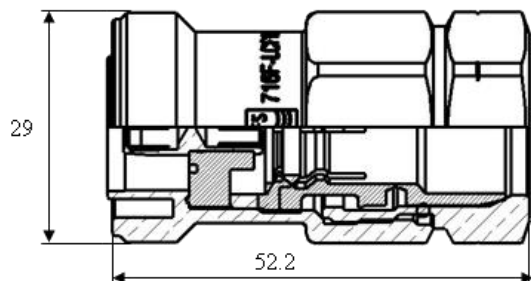
ACCESSORIES

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
------------------	--	------

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



External Document Links

Installation Instruction

Notes

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

- ➔ 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

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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.2 GHz: 1.03 (37.0) 2.2 < f ≤ 2.7 GHz: 1.03 (36.0) 2.7 < f ≤ 3.8 GHz: 1.06 (31.0) 3.8 < f ≤ 5.0 GHz: 1.11 (26.0) 5.0 < f ≤ 6.0 GHz: 1.15 (23.0)

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

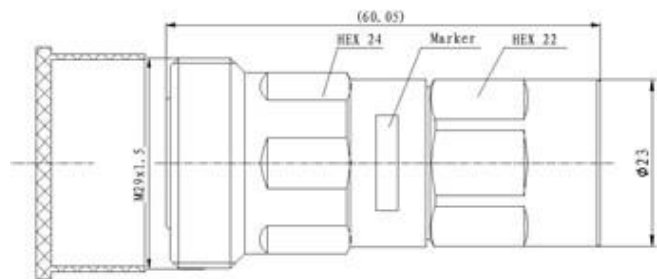
Wrench size front	mm (in)	24 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links	Notes
Installation Instruction	

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.

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		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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 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

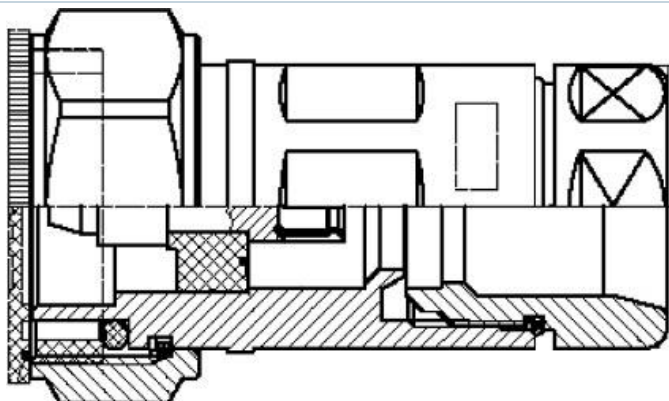
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Application Note
Installation instruction

Notes

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. 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		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	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	$0 < f \leq 1.0 \text{ GHz: } 1.03 \text{ (36.6)}$ $1.0 < f \leq 2.7 \text{ GHz: } 1.04 \text{ (34.1)}$ $2.7 < f \leq 3.7 \text{ GHz: } 1.08 \text{ (28.3)}$ $3.7 < f \leq 5.0 \text{ GHz: } 1.15 \text{ (23.1)}$ $5.0 < f \leq 6.0 \text{ GHz: } 1.25 \text{ (19.1)}$

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

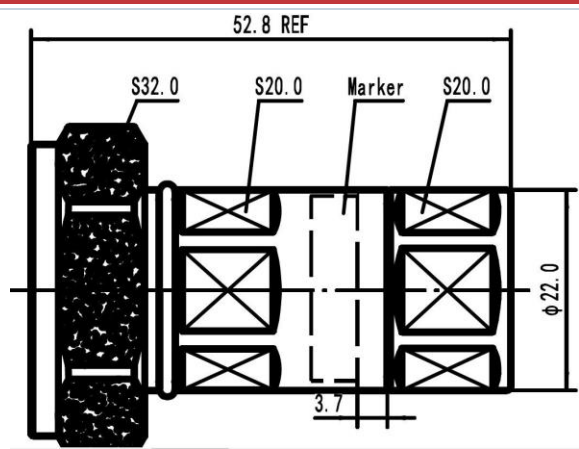
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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	

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 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

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™ 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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 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

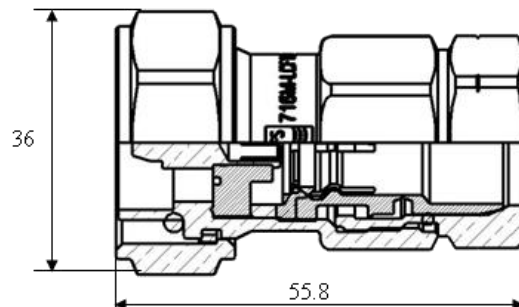
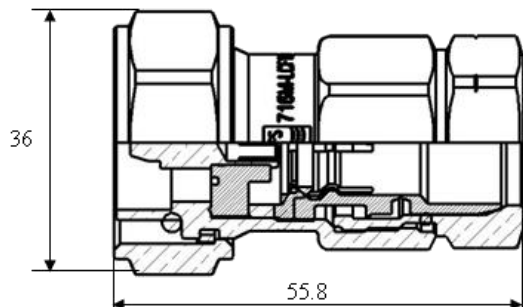
ACCESSORIES

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
------------------	--	------

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



External Document Links

Installation Instruction

Notes



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

- ➔ 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

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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.2 GHz: 1.03 (37.0) 2.2 < f ≤ 2.7 GHz: 1.03 (36.0) 2.7 < f ≤ 3.8 GHz: 1.06 (31.0) 3.8 < f ≤ 5.0 GHz: 1.11 (26.0) 5.0 < f ≤ 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

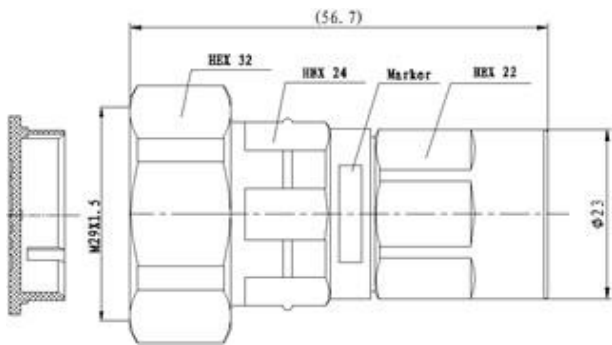
Wrench size front	mm (in)	32 / 24
Wrench size rear	mm (in)	22
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Installation Instruction

Notes

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.

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
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)	$0 < f \leq 1.0 \text{ GHz: } 1.04 (34.1)$ $1.0 < f \leq 2.2 \text{ GHz: } 1.07 (29.4)$ $2.2 < f \leq 2.7 \text{ GHz: } 1.09 (27.3)$ $2.7 < f \leq 3.7 \text{ GHz: } 1.13 (\text{null})$

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

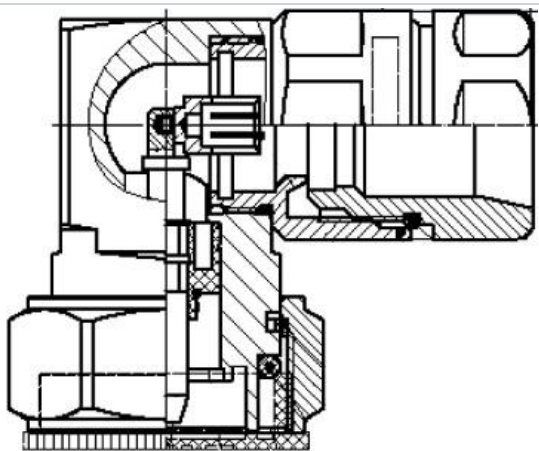
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Application Note
Installation instruction

Notes

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.



716MR-LCF12-C03

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
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 ≤ 1.0 GHz: 1.04 (34.1) 1.0 < f ≤ 2.2 GHz: 1.07 (29.4) 2.2 < f ≤ 2.7 GHz: 1.09 (27.3) 2.7 < f ≤ 3.7 GHz: 1.13 (24.3) 3.7 < f ≤ 5.0 GHz: 1.25 (19.1) 5.0 < f ≤ 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

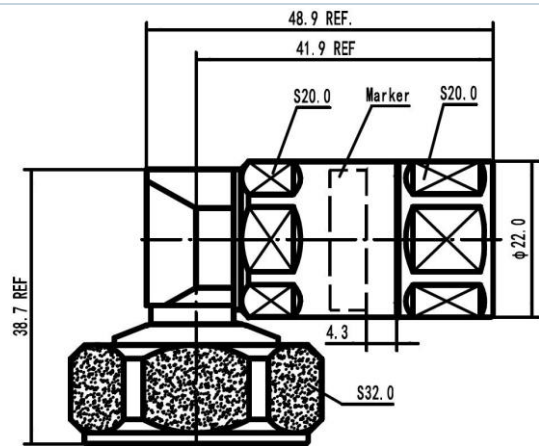
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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

Application Note
Installation instruction

Notes

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

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™ PREMIUM Right Angle
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)	$0 < f \leq 1.0 \text{ GHz: } 1.04 (34.1)$ $1.0 < f \leq 2.0 \text{ GHz: } 1.06 (30.7)$ $2.0 < f \leq 2.7 \text{ GHz: } 1.08 (28.3)$ $2.7 < f \leq 3.7 \text{ GHz: } 1.10 (26.4)$

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	64.6 (2.54)
Outer Diameter	mm (in)	41.3 (1.63)
Weight	kg (lb)	0.22 (0.49)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

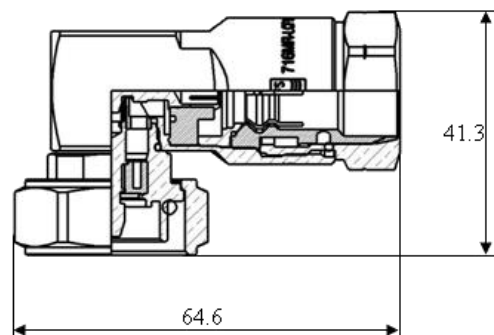
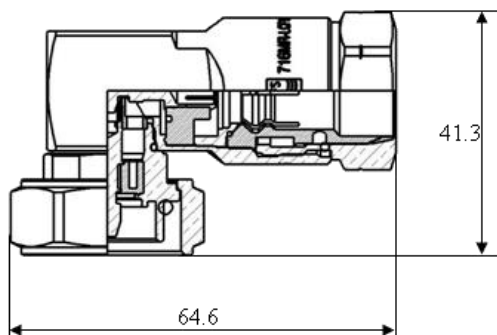
Wrench size front	mm (in)	32 (1-1/4)
Wrench size rear	mm (in)	26
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Installation Instruction

Notes



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.
- ⌚ Corrosion-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.
- ⌚ Easy 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

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)
Trimming Tool		TRIM-Series-B

External Document Links

Notes

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.



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 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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 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

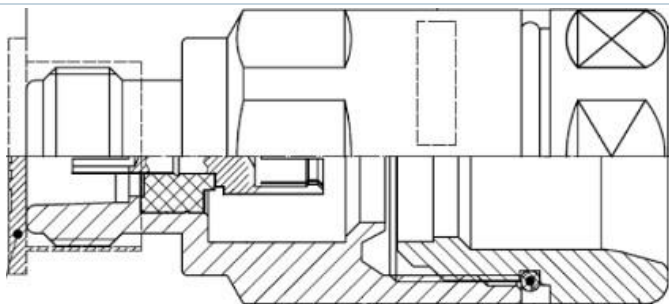
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Application Note
Installation instruction

Notes



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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 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

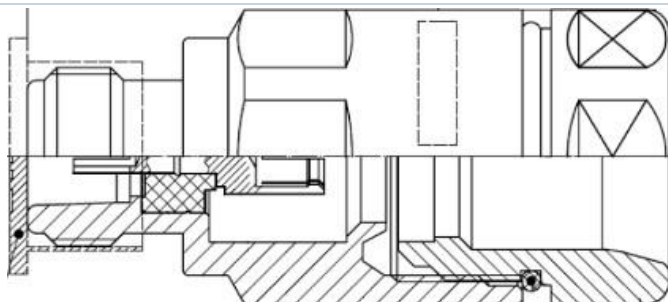
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Application Note
Installation instruction

Notes

N 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.

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		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	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.15 (23.1) 5.0 < f ≤ 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

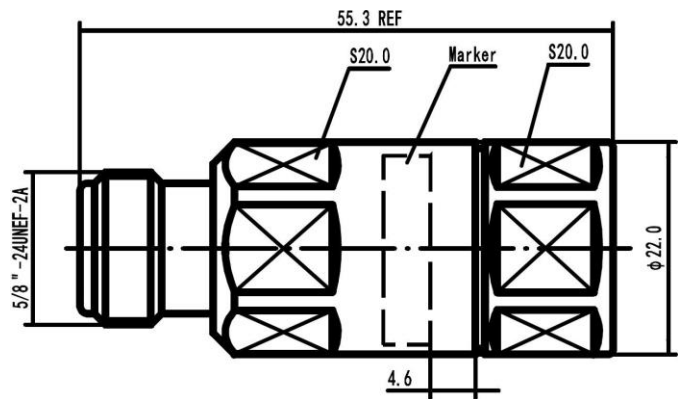
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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	

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

- 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		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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 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

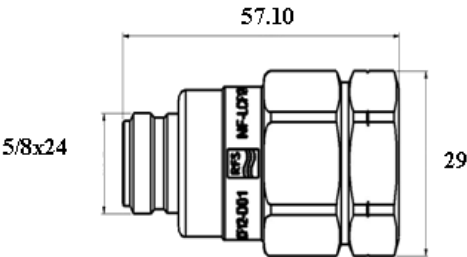
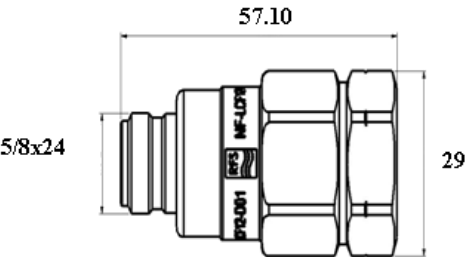
Wrench size front	mm (in)	27 (1-1/16)
Wrench size rear	mm (in)	27 (1-1/16)
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links	Notes
Installation Instruction	

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

- ➔ 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

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

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-158 ; typical -162
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.2 GHz: 1.03 (37.0) 2.2 < f ≤ 2.7 GHz: 1.03 (36.0) 2.7 < f ≤ 3.8 GHz: 1.07 (30.0) 3.8 < f ≤ 5.0 GHz: 1.11 (26.0) 5.0 < f ≤ 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

Installation Instruction

Notes



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.



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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 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

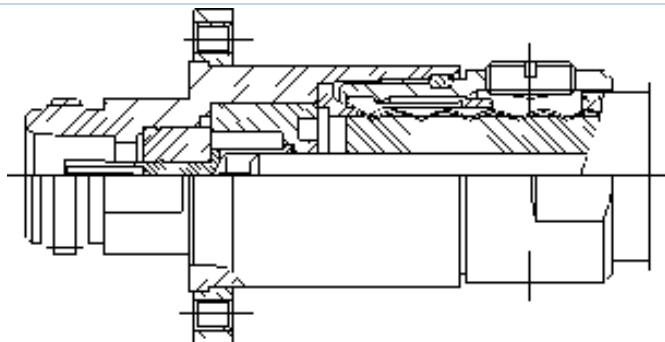
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	19 (3/4)
Trimming Tool		TRIM-Series-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
Sealing Volume	cm³ (ounces)	4 (0.14)



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



External Document Links	Notes

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 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 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	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 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

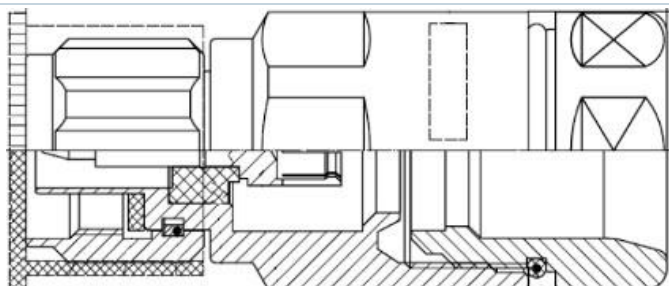
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Application Note
Installation instruction

Notes

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 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		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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 6.0 GHz: 1.08 (28.0)

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

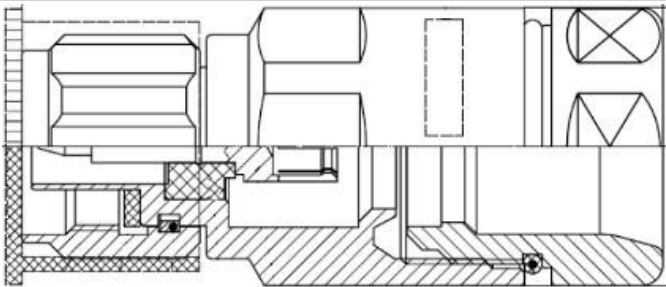
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links	Notes
Application Note Installation instruction	

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 connector-cable 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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.15 (23.1) 5.0 < f ≤ 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

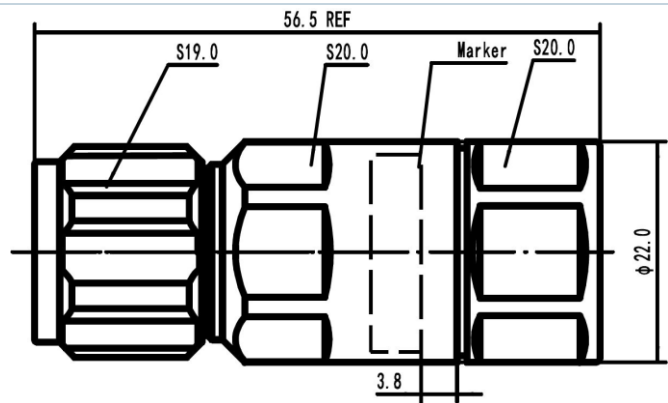
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



NM-LCF12-C03 Outline Drawing

External Document Links	Notes
Installation Instruction	

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 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

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 ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 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

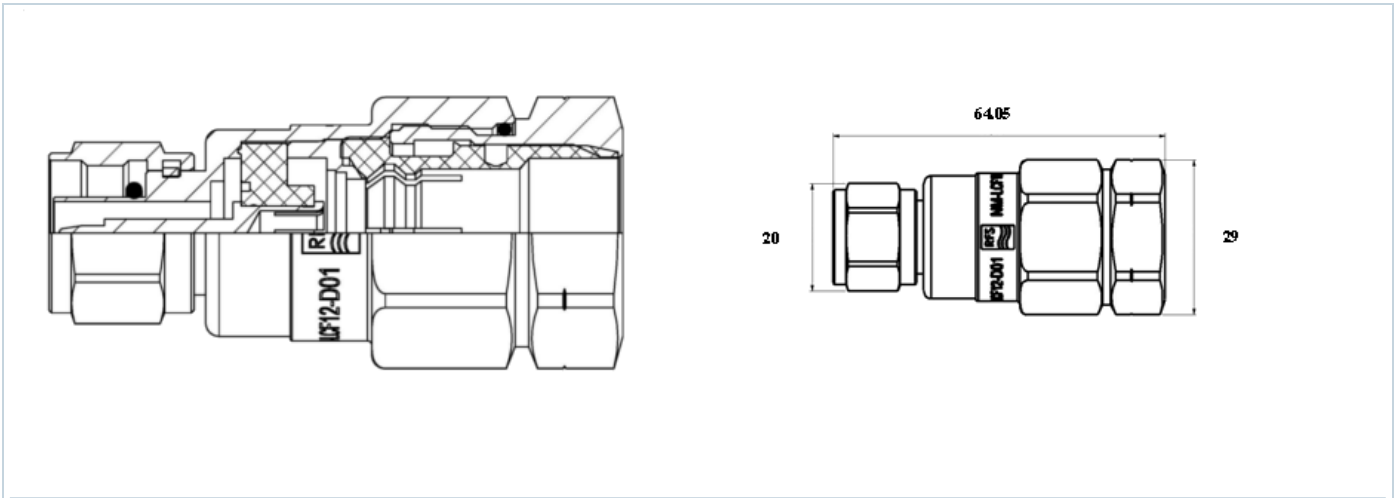
Wrench size front	mm (in)	18
Wrench size rear	mm (in)	26
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links	Notes
Installation Instruction	

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

- ➞ 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

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

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-158 ; typical -162
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.2 GHz: 1.03 (37.0) 2.2 < f ≤ 2.7 GHz: 1.03 (36.0) 2.7 < f ≤ 3.8 GHz: 1.07 (30.0) 3.8 < f ≤ 5.0 GHz: 1.11 (26.0) 5.0 < f ≤ 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

Installation Instruction

Notes



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 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



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 ≤ 1.0 GHz: 1.04 (34.2) 1.0 < f ≤ 2.0 GHz: 1.06 (30.7) 2.0 < f ≤ 2.7 GHz: 1.10 (26.4) 2.7 < f ≤ 3.7 GHz: 1.12 (24.9) 3.7 < f ≤ 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

Waterproof Level		IP68
------------------	--	------

External Document Links

Application Note
Installation instruction

Notes

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

- 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		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	VSWR (dB)	$0 < f \leq 1.0 \text{ GHz: } 1.04 (34.2)$ $1.0 < f \leq 2.0 \text{ GHz: } 1.06 (30.7)$ $2.0 < f \leq 2.7 \text{ GHz: } 1.08 (28.3)$ $2.7 < f \leq 3.7 \text{ GHz: } 1.10 (26.4)$

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

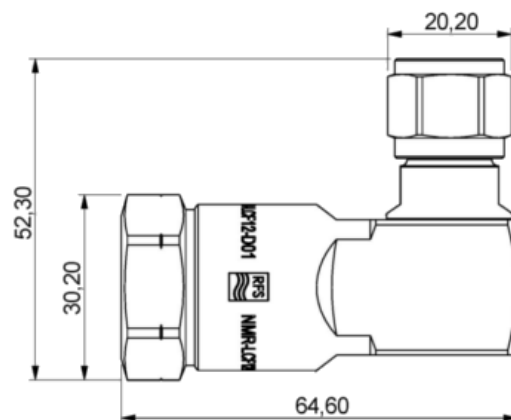
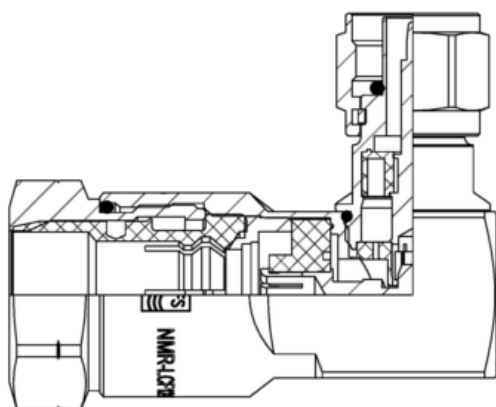
Wrench size front	mm (in)	27 (1-1/16)
Wrench size rear	mm (in)	27 (1-1/16)
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



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



External Document Links

Installation Instruction

Notes



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](#)

Посетите наш сайт в интернете по адресу www.tt-telecom.ru