

Разъемы для коаксиального кабеля 7/8"

- Кабельная группа LCF78-50
- Производство RFS (Radio Frequency Systems)

Технический паспорт изделия

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Посетите нас в интернете по адресу www.tt-telecom.ru

1-5/8" EIA Connector for 7/8" Coaxial Cable, RAPID FIT™ Sealing compound

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.



RAPID FIT™ Connectors

FEATURES / BENEFITS

- ➔ Single-piece design for Fast and Easy Installation
Reliable and simple attachment avoids unnecessary connector adjustments and provides outstanding performance every time. Saves time and provides cost savings.
- ➔ Robust Mechanical Design
Low and consistent intermodulation performance guarantees outstanding system sensitivity.
- ➔ Excellent Electrical Performance
Consistent and repeatable low VSWR improves overall system performance and margin and reduces mismatch losses
- ➔ Totally Waterproof according to IP68
Assures safe, long term operation in the harshest of environments.

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50A-Series, RCF78-50A-Series
Connector Interface		1-5/8" EIA
Connector Type		RAPID FIT™
Sealing Method		Sealing compound ¹)
Gender		None

ELECTRICAL SPECIFICATIONS

3rd Order IM Product @ 2x20 Watts	dBc	<-156
Maximum Frequency	GHz	3.3
VSWR, Return Loss	VSWR (dB)	0 < f S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.7 GHz: 1.03 (36.6) 2.7 < f S 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver/Silver
Length	mm (in)	110 (4.3)
Outer Diameter	mm (in)	90 (3.5)
Weight	kg (lb)	0.95 (2.1)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring Finger

ACCESSORIES

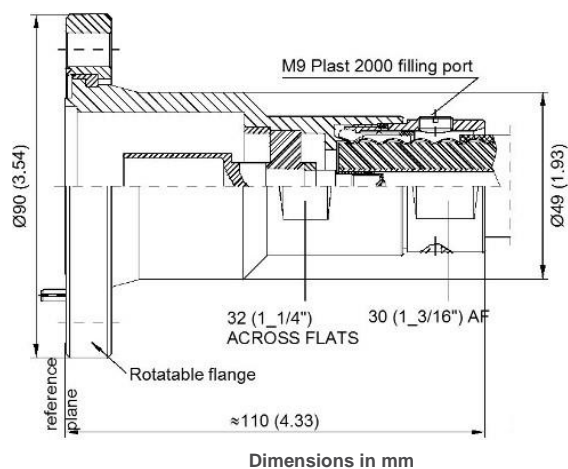
Wrench size front	mm (in)	30 (1-3/16)
Wrench size rear	mm (in)	30 (1-3/16)
Trimming Tool		TRIM-Series-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
Sealing Volume	cm ³ (ounces)	7 (0.26)



1-5/8" EIA Connector for 7/8" Coaxial Cable, RAPID FIT™ Sealing compound



External Document Links

Installation Instruction

Notes

1) The sealing compound must be ordered separately.

4.3-10 Female Connector for 7/8" 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.



43F-LCF78-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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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)	54.5 (2.15)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.131 (0.29)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

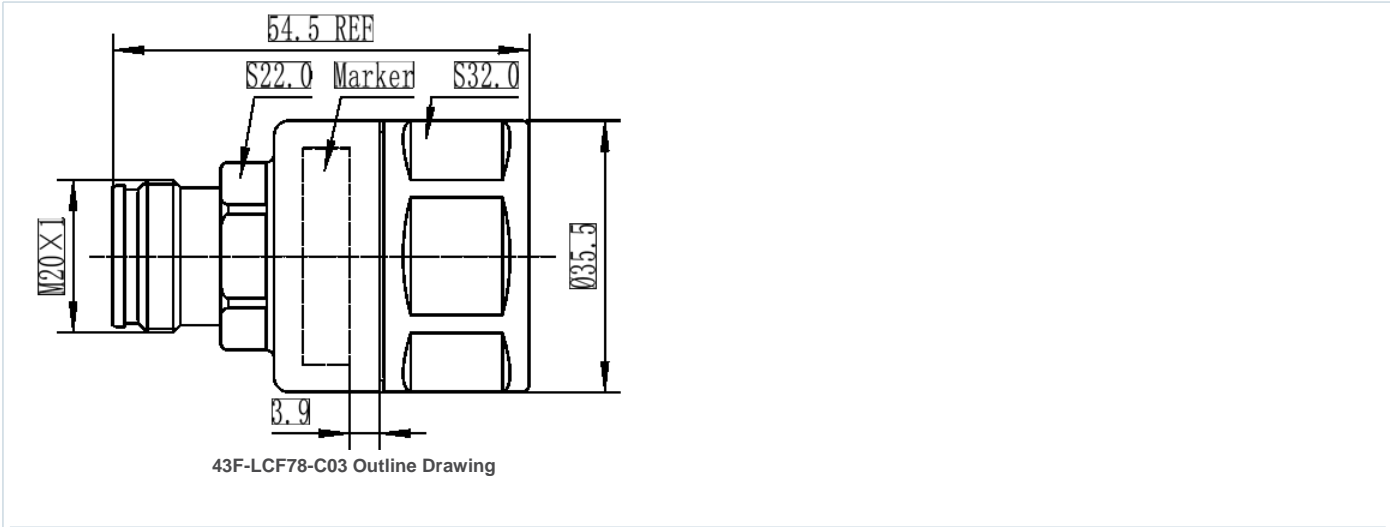
Wrench size front	mm (in)	22 (0.87)
Wrench size rear	mm (in)	32 (1.26)
Trimming Tool		TRIM-SET-L78-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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4.3-10 Female Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links	Notes
Installation Instruction	

4.3-10 Female Straight Connector for 7/8" 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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	5.0
VSWR, Return Loss	VSWR (dB)	0 < f S 1.0 GHz: 1.02 (40.1) 1.0 < f S 2.7 GHz: 1.03 (36.6) 2.7 < f S 3.7 GHz: 1.06 (30.7) 3.7 < f S 5.0 GHz: 1.09 (27.3)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	68.2 (2.69)
Outer Diameter	mm (in)	40 (1.57)
Weight	kg (lb)	0.17 (0.37)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

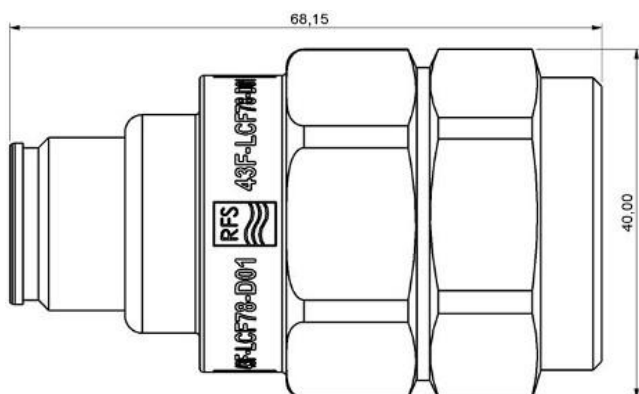
Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-SET-L78-D01, TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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4.3-10 Female Straight Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Polymer claw and compression sealing



43F-LCF78-D01 Outline Drawing

External Document Links

[Installation Instruction](#)

Notes



4.3-10 Female Straight Connector for 7/8" 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 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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 S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.2 GHz: 1.03 (37.0) 2.2 < f S 2.7 GHz: 1.03 (36.0) 2.7 < f S 3.8 GHz: 1.06 (31.0) 3.8 < f S 5.0 GHz: 1.11 (26.0) 5.0 < f S 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	75 (2.95)
Outer Diameter	mm (in)	37 (1.46)
Weight	kg (lb)	0.2 (0.44)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	34 (1,34)
Wrench size rear	mm (in)	34 (1,34)
Trimming Tool		TRIM-SET-L78-D01, TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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External Document Links

Notes

Installation Instruction

43F-LCF78-E01

REV: A

REV DATE: 15.Jun.2020

www.rfsworld.com

All information contained in the present datasheet is subject to confirmation at time of ordering

4.3-10 Male Hand-Screw Connector for 7/8" 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-LCF78-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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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 S 1.0 GHz: 1.03 (36.6) 1.0 < f S 2.7 GHz: 1.04 (34.1) 2.7 < f S 3.7 GHz: 1.08 (28.3) 3.7 < f S 5.0 GHz: 1.10 (26.4) 5.0 < f S 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	57.5 (2.26)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.149 (0.33)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

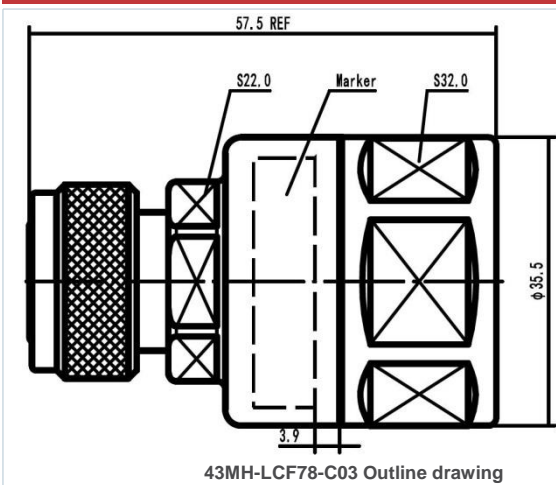
Wrench size front	mm (in)	22 (0.87)
Wrench size rear	mm (in)	32 (1.26)
Trimming Tool		TRIM-SET-L78-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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4.3-10 Male Hand-Screw Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links	Notes
Installation Instruction	

4.3-10 Male Connector for 7/8" 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-LCF78-C03

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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)	57.5 (2.26)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.146 (0.32)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

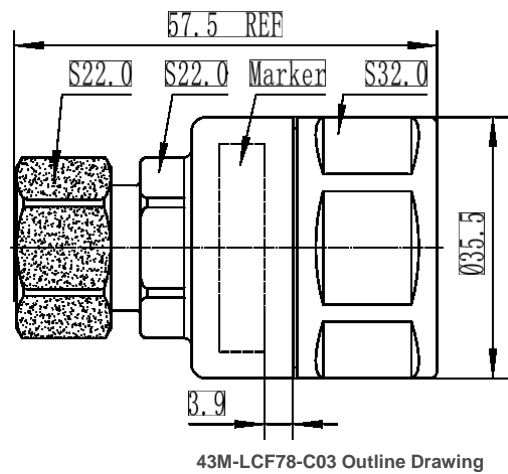
Wrench size front	mm (in)	22 (0.87)
Wrench size rear	mm (in)	32 (1.26)
Trimming Tool		TRIM-SET-L78-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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4.3-10 Male Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links	Notes
Installation Instruction	

4.3-10 Male Straight Connector for 7/8" 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.



43M-LCF78-D01

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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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	5.0
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: 1.09 (27.3)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	70.35 (2.77)
Outer Diameter	mm (in)	40 (1.57)
Weight	kg (lb)	0.182 (0.4)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

ACCESSORIES

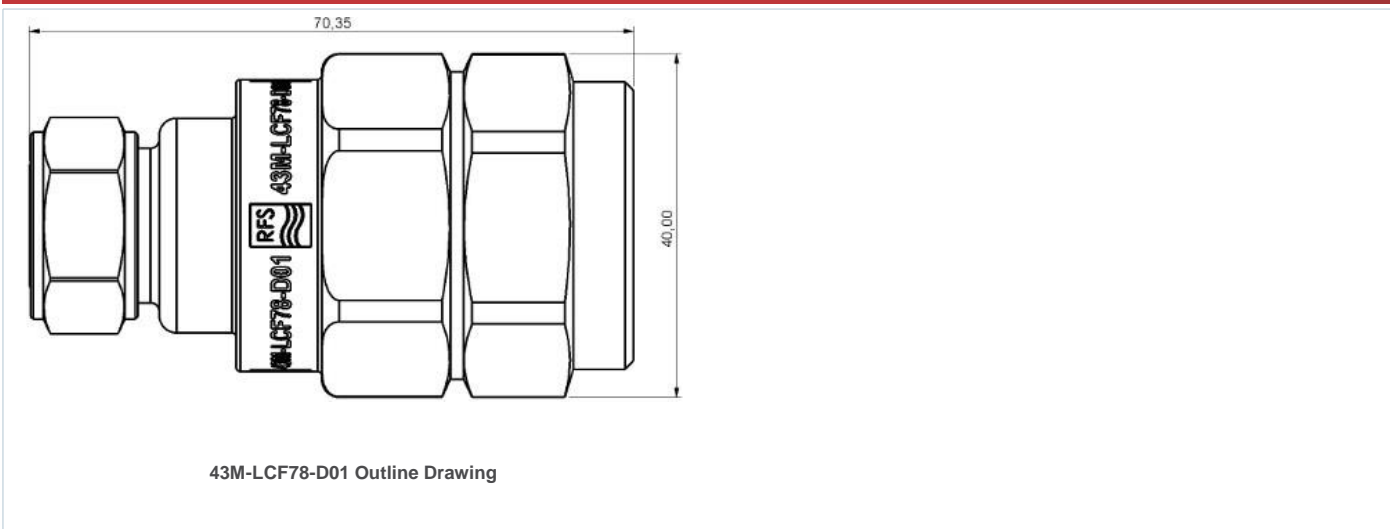
Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-SET-L78-D01, TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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4.3-10 Male Straight Connector for 7/8" Coaxial Cable, OMNI FIT™
Premium, Polymer claw and compression sealing



External Document Links	Notes
Installation Instruction	



4.3-10 Male Straight Connector for 7/8" 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 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 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 Series
Connector Interface		4.3-10
Connector Type		OMNI FIT™ PREMIUM Straight
Sealing Method		Sealing rubber + 360° clamping
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 S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.2 GHz: 1.03 (37.0) 2.2 < f S 2.7 GHz: 1.03 (36.0) 2.7 < f S 3.8 GHz: 1.06 (31.0) 3.8 < f S 5.0 GHz: 1.11 (26.0) 5.0 < f S 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	74 (2.91)
Outer Diameter	mm (in)	37 (1.46)
Weight	kg (lb)	0.206 (0.45)
Inner Contact Attachment		Spring finger
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	34 (1,34)
Wrench size rear	mm (in)	34 (1,34)
Trimming Tool		TRIM-SET-L78-D01, TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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External Document Links

Installation Instruction

Notes

43M-LCF78-E01

REV: A

REV DATE: 15.Jun.2020

www.rfsworld.com

All information contained in the present datasheet is subject to confirmation at time of ordering

4.3-10 Male Push-Pull Connector for 7/8" 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-LCF78-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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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)	57.5 (2.26)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.167 (0.37)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

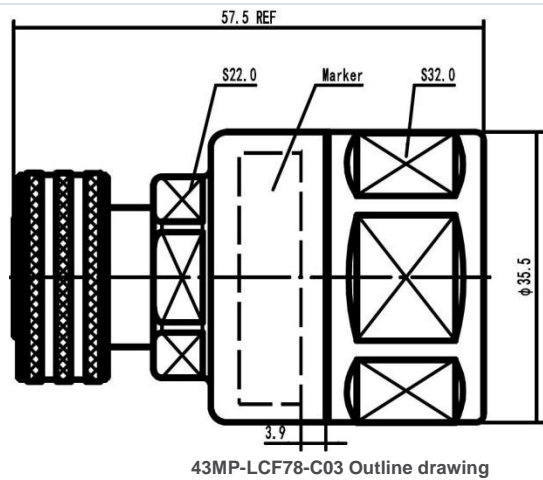
Wrench size front	mm (in)	22 (0.87)
Wrench size rear	mm (in)	32 (1.26)
Trimming Tool		TRIM-SET-L78-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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4.3-10 Male Push-Pull Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links	Notes
Installation Instruction	

7-16 DIN Female Connector for 7/8" 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		7/8"
Cable Type		Foam Dielectric Ultraflexible Radiating
Model Series		LCF78-50 Series RCF78-50 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)	51.7 (2)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.15 (0.33)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

ACCESSORIES

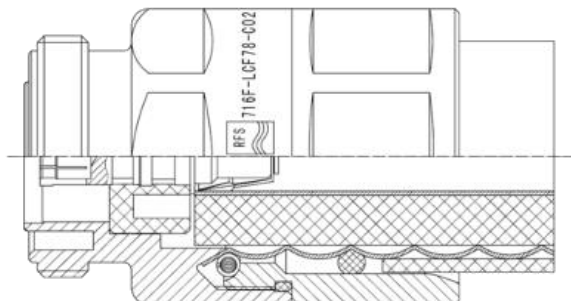
Wrench size front	mm (in)	32 (1-1/4)
Wrench size rear	mm (in)	32 (1-1/4)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Female Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links

Application Note
Installation Instruction

Notes

7-16 DIN Female Connector for 7/8" 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



716F-LCF78-C03

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric Ultraflexible Radiating
Model Series		LCF78-50 Series RCF78-50 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)	52.5 (2.07)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.139 (0.306)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

ACCESSORIES

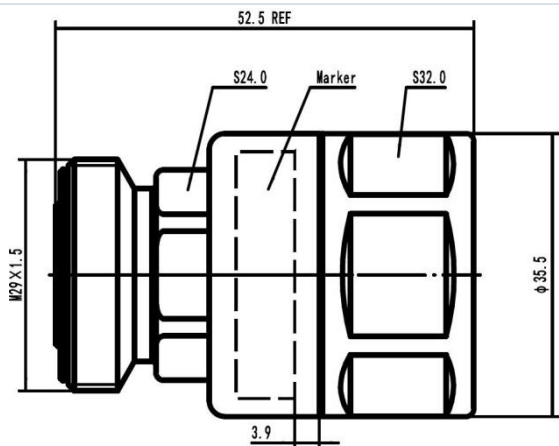
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	32 (1-1/4)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Female Connector for 7/8" Coaxial Cable, OMNI FIT™
standard, O-ring sealing



External Document Links

- Application Note
- Installation Instruction

Notes

7-16 DIN Female Connector for 7/8" 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 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.



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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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	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)	61.95 (2.44)
Outer Diameter	mm (in)	40 (1.57)
Weight	kg (lb)	0.17 (0.37)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

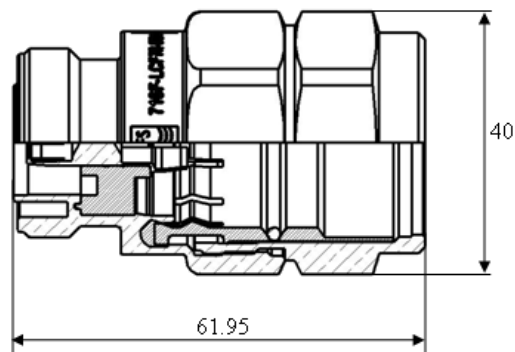
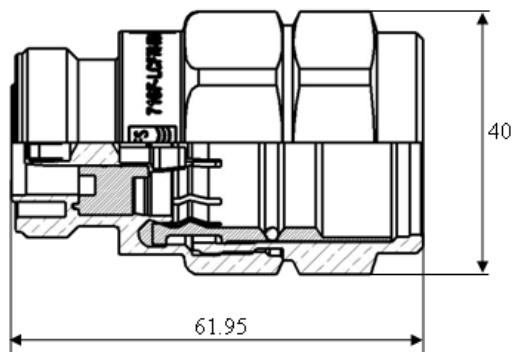
ACCESSORIES

Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Female Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing



External Document Links

Installation Instruction

Notes



7-16 DIN Female Connector for 7/8" 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 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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	6.0
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)	63.6 (2.5)
Outer Diameter	mm (in)	37 (1.46)
Weight	kg (lb)	0.18 (0.4)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

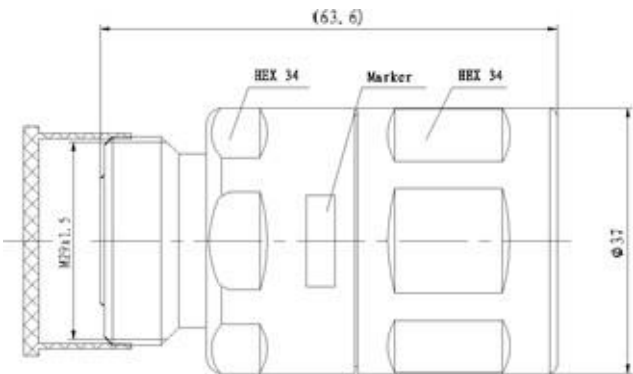
Wrench size front	mm (in)	34 (1-7/16)
Wrench size rear	mm (in)	34 (1-7/16)
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Female Connector for 7/8" Coaxial Cable, OMNI FIT™
Premium, Straight, O-Ring and compression sealing



External Document Links	Notes
Installation Instruction	

7-16 DIN Male Connector for 7/8" 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 low VSWR i.e. improved 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		7/8"
Cable Type		Foam Dielectric Ultraflexible Radiating
Model Series		LCF78-50 Series RCF78-50 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)	57.3 (2.3)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.18 (0.4)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

ACCESSORIES

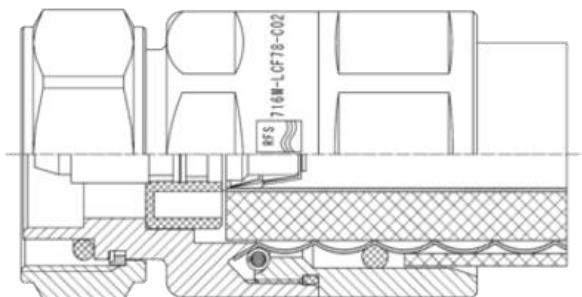
Wrench size front	mm (in)	32 (1-1/4)
Wrench size rear	mm (in)	32 (1-1/4)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Male Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links

Application Note
Installation Instruction

Notes

7-16 Male Connector for 7/8" 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-LCF78-C03

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 Series
Connector Interface		7-16
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)	57.9 (2.28)
Outer Diameter	mm (in)	36 (1.42)
Weight	kg (lb)	0.174 (0.384)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

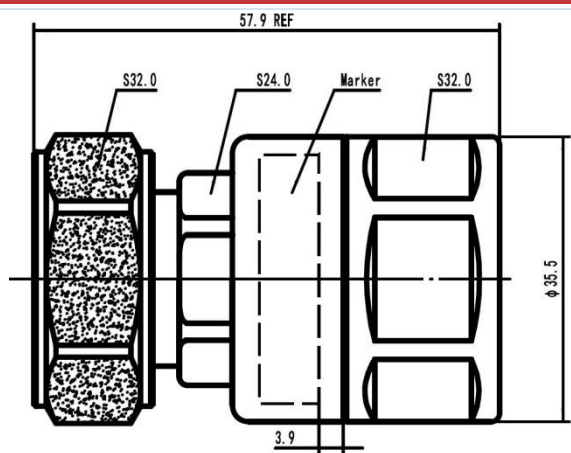
Wrench size front	mm (in)	24 (0.95)
Wrench size rear	mm (in)	32 (1.26)
Trimming Tool		TRIM-SET-L78-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 Male Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



716M-LCF78-C03 Outline drawing

External Document Links	Notes
Installation Instruction	

7-16 DIN Male Connector for 7/8" 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 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.



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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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	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)	65.25 (2.57)
Outer Diameter	mm (in)	40 (1.57)
Weight	kg (lb)	0.2 (0.44)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

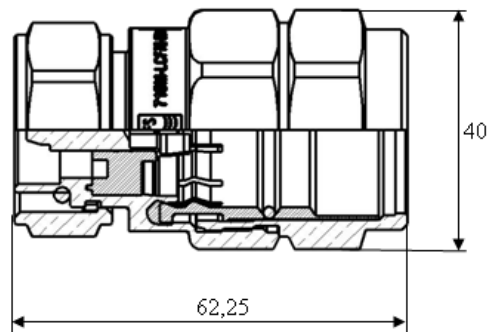
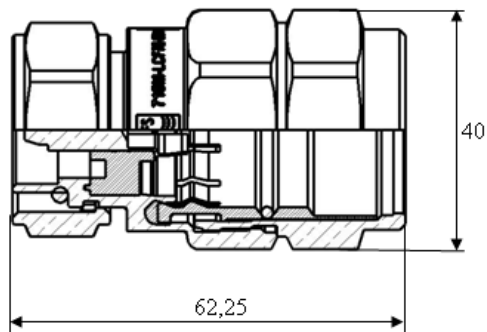
Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing



External Document Links

Installation Instruction

Notes



7-16 DIN Male Connector for 7/8" 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 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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	6.0
VSWR, Return Loss	VSWR (dB)	0 < f S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.2 GHz: 1.03 (37.0) 2.2 < f S 2.7 GHz: 1.03 (36.0) 2.7 < f S 3.8 GHz: 1.06 (31.0) 3.8 < f S 5.0 GHz: 1.11 (26.0) 5.0 < f S 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	66.5 (2.62)
Outer Diameter	mm (in)	37 (1.46)
Weight	kg (lb)	0.2 (0.44)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

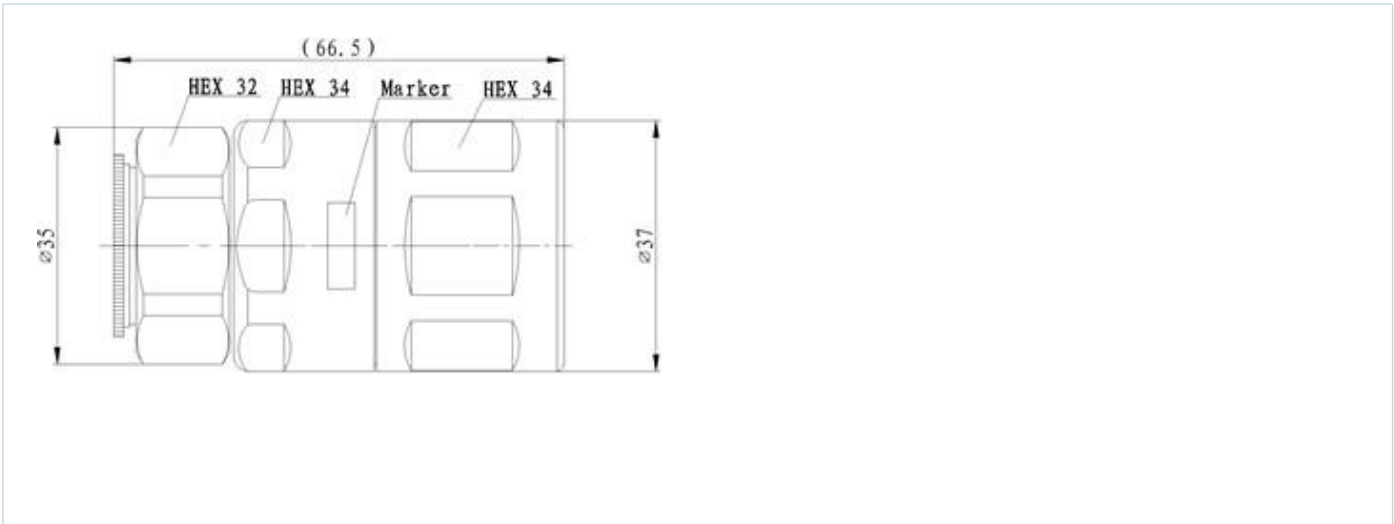
Wrench size front	mm (in)	32 / 34
Wrench size rear	mm (in)	34
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing



External Document Links	Notes
Installation Instruction	

7-16 DIN Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Right Angle, O-Ring and compression 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.

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. 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ PREMIUM Right Angle
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	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.1) 1.0 < f ≤ 2.7 GHz: 1.04 (34.2) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	82.85 (3.26)
Outer Diameter	mm (in)	52.4 (2.06)
Weight	kg (lb)	0.33 (0.73)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

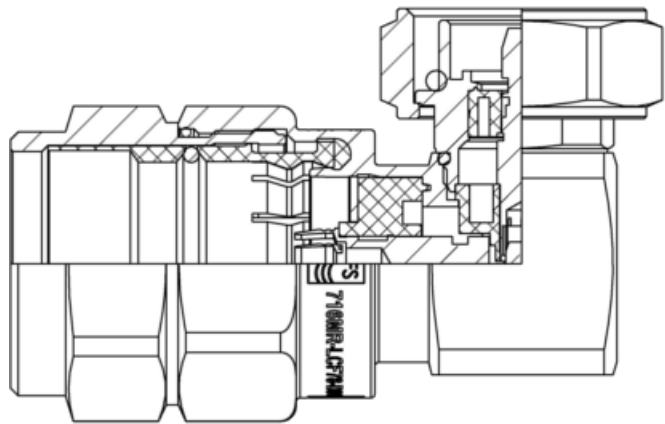
Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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7-16 DIN Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Right Angle, O-Ring and compression sealing



External Document Links	Notes
Installation Instruction	

7/8" EIA Connector for 7/8" Coaxial Cable, RAPID FIT™ Sealing compound

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.



RAPID FIT™ Connectors

FEATURES / BENEFITS

- ➔ Single-piece design for Fast and Easy Installation
Reliable and simple attachment avoids unnecessary connector adjustments and provides outstanding performance every time. Saves time and provides cost savings.
- ➔ Robust Mechanical Design
Low and consistent intermodulation performance guarantees outstanding system sensitivity.
- ➔ Excellent Electrical Performance
Consistent and repeatable low VSWR improves overall system performance and margin and reduces mismatch losses
- ➔ Totally Waterproof according to IP68
Assures safe, long term operation in the harshest of environments.

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50A-Series, RCF78-50A-Series
Connector Interface		7/8" EIA
Connector Type		RAPID FIT™
Sealing Method		Sealing compound ¹)
Gender		None

ELECTRICAL SPECIFICATIONS

3rd Order IM Product @ 2x20 Watts	dBc	<-156
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.7 GHz: 1.04 (34.1) 2.7 < f S 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver/Silver
Length	mm (in)	83 (3.3)
Outer Diameter	mm (in)	57.2 (2.3)
Weight	kg (lb)	0.38 (0.84)
Inner Contact Attachment		Self Tapping
Outer Contact Attachment		Spring Finger

ACCESSORIES

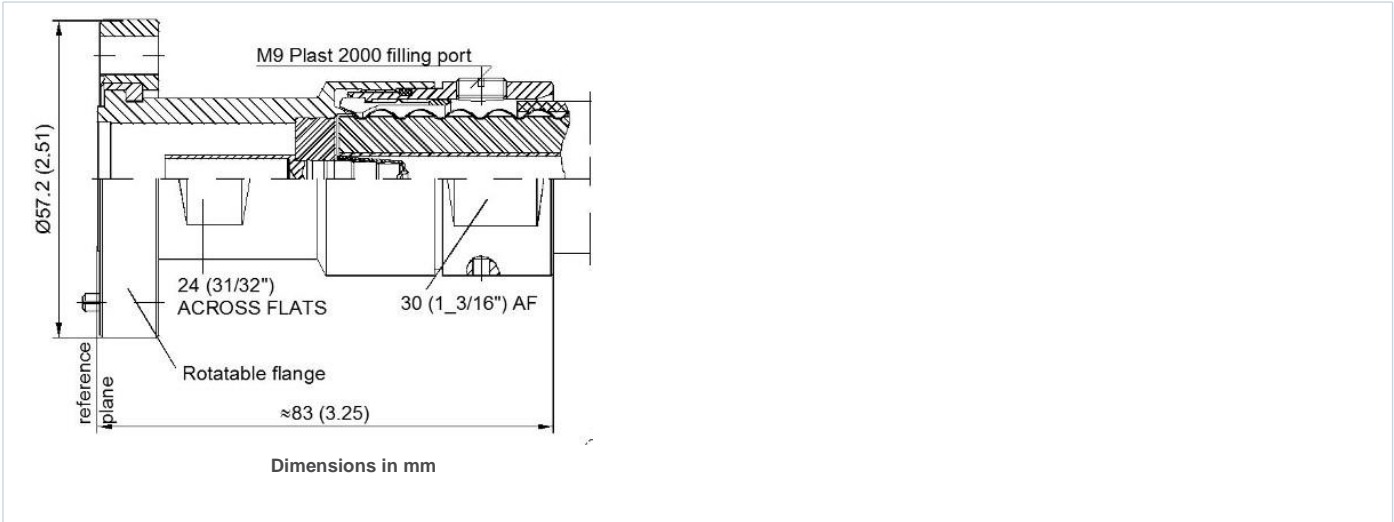
Wrench size front	mm (in)	30 (1-3/16)
Wrench size rear	mm (in)	30 (1-3/16)
Trimming Tool		TRIM-Series-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
Sealing Volume	cm³ (ounces)	7 (0.26)



7/8" EIA Connector for 7/8" Coaxial Cable, RAPID FIT™ Sealing compound



External Document Links	Notes
Installation Instruction	1) The sealing compound must be ordered separately.

N Female Connector for 7/8" 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 N connector is one of the most common RF connector types and meets 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
- ➡ Standard 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) 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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	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)	56.8 (2.23)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.15 (0.33)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

ACCESSORIES

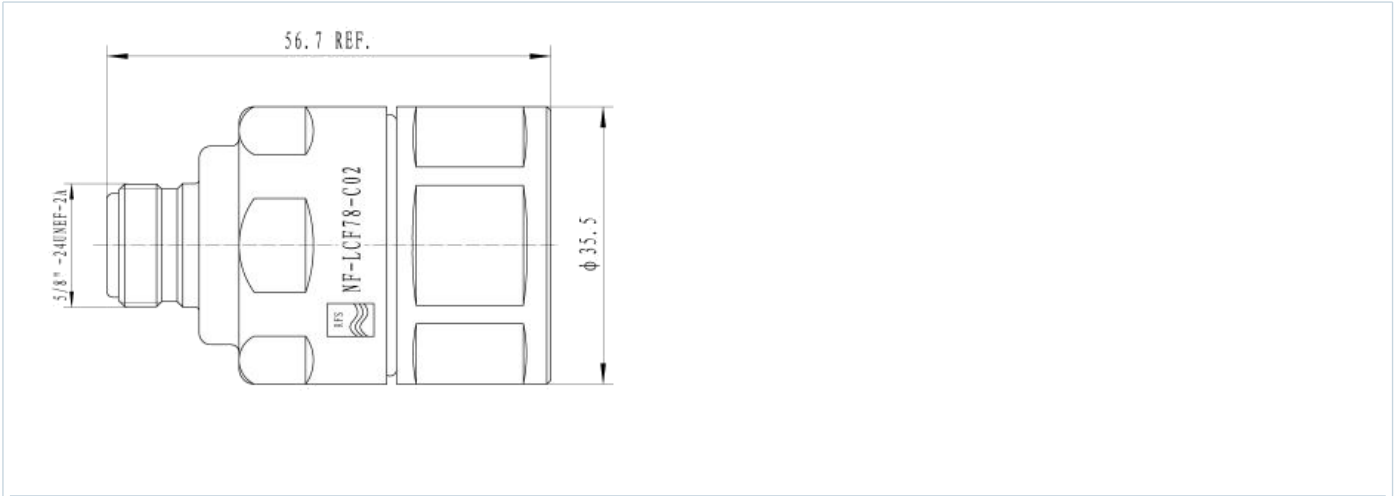
Wrench size front	mm (in)	32 (1-1/4)
Wrench size rear	mm (in)	32 (1-1/4)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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N Female Connector for 7/8" Coaxial Cable, OMNI FIT™ standard,
O-ring sealing



External Document Links	Notes
Application Note Installation Instruction	

N Female Connector for 7/8" 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-LCF78-C03

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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)	56.9 (2.24)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.137 (0.302)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

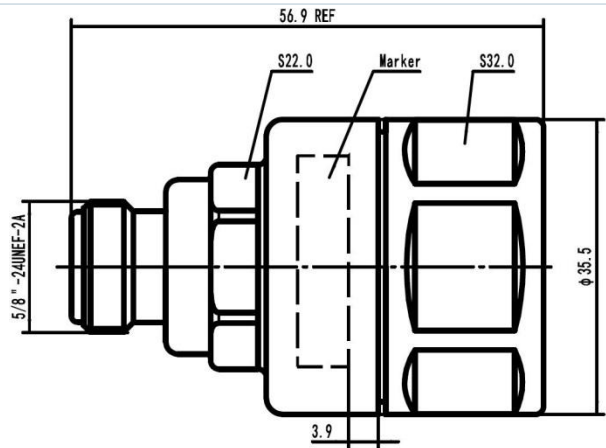
Wrench size front	mm (in)	22 (0.87)
Wrench size rear	mm (in)	32 (1.26)
Trimming Tool		TRIM-SET-L78-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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N Female Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



NF-LCF78-C03 Outline drawing

External Document Links	Notes
Installation Instruction	

N Female Connector for 7/8" 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 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. 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 Series
Connector Interface		N
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	-156 ; typical -162
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.7 GHz: 1.03 (36.6) 2.7 < f S 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	68.5 (2.62)
Outer Diameter	mm (in)	40 (1.57)
Weight	kg (lb)	0.17 (0.37)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

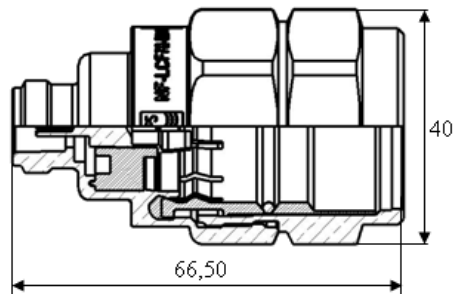
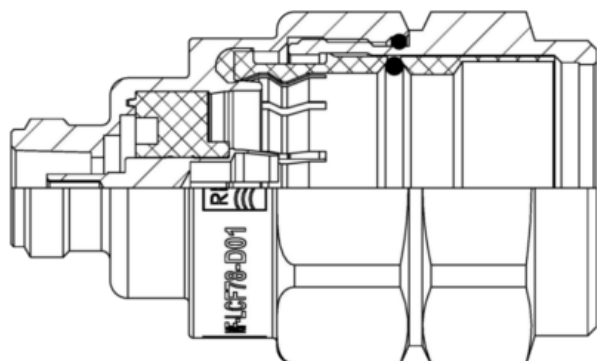
Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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N Female Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing



External Document Links

Installation Instruction

Notes



N Female Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° 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 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		7/8"
Cable Type		Foam Dielectric Superflexible
Model Series		LCF78-50 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 S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.2 GHz: 1.03 (37.0) 2.2 < f S 2.7 GHz: 1.03 (36.0) 2.7 < f S 3.8 GHz: 1.07 (30.0) 3.8 < f S 5.0 GHz: 1.11 (26.0) 5.0 < f S 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	75.1 (2.96)
Outer Diameter	mm (in)	37 (1.46)
Weight	kg (lb)	0.12 (0.26)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	34
Wrench size rear	mm (in)	34
Trimming Tool		TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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External Document Links

Installation Instruction

Notes

N Male Connector for 7/8" 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 N connector is one of the most common RF connector types and meets 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
- ➔ Standard 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) 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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	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)	62.8 (2.47)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.16 (0.35)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

ACCESSORIES

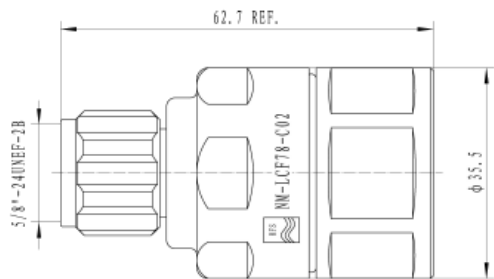
Wrench size front	mm (in)	32 (1-1/4)
Wrench size rear	mm (in)	32 (1-1/4)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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N Male Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links	Notes
Application Note Installation Instruction	

N Male Connector for 7/8" 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-LCF78-C03

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series RCF78-50 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)	62.7 (2.47)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.147 (0.324)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

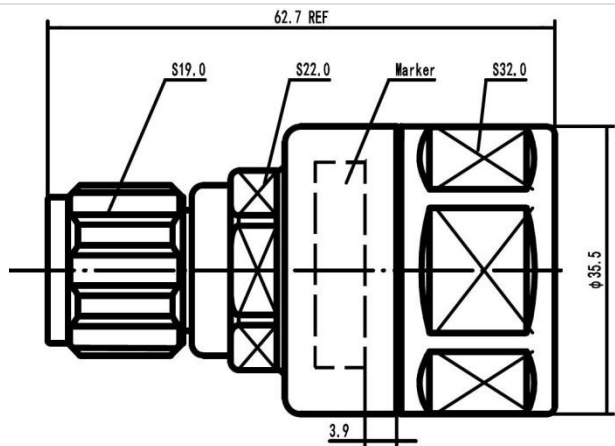
Wrench size front	mm (in)	22 (0.87)
Wrench size rear	mm (in)	32 (1.26)
Trimming Tool		TRIM-SET-L78-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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N Male Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



External Document Links

Installation Instruction

Notes

N Male Connector for 7/8" 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 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. 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 Series
Connector Interface		N
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	-156 ; typical -162
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.7 GHz: 1.03 (36.6) 2.7 < f S 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	73.65 (2.9)
Outer Diameter	mm (in)	40 (1.57)
Weight	kg (lb)	0.18 (0.4)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

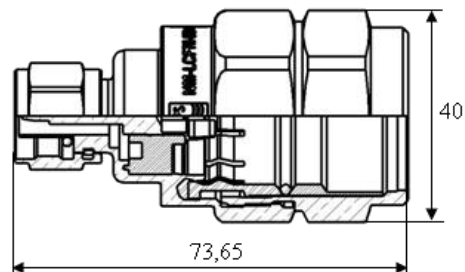
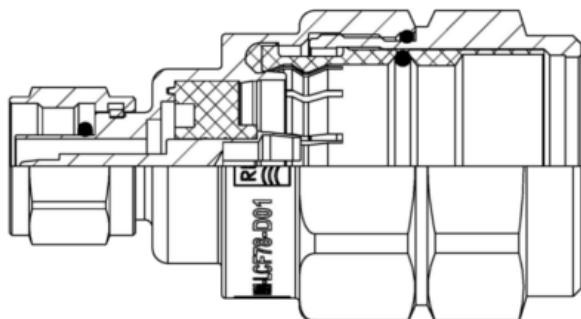
ACCESSORIES

Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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N Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing



External Document Links

Installation Instruction

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N Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° 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 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		7/8"
Cable Type		Foam Dielectric Superflexible
Model Series		LCF78-50 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 S 1.0 GHz: 1.02 (40.0) 1.0 < f S 2.2 GHz: 1.03 (37.0) 2.2 < f S 2.7 GHz: 1.03 (36.0) 2.7 < f S 3.8 GHz: 1.07 (30.0) 3.8 < f S 5.0 GHz: 1.11 (26.0) 5.0 < f S 6.0 GHz: 1.15 (23.0)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	77.6 (3.06)
Outer Diameter	mm (in)	37 (1.46)
Weight	kg (lb)	0.125 (0.28)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

ACCESSORIES

Wrench size front	mm (in)	34
Wrench size rear	mm (in)	34
Trimming Tool		TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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43M-LCF78-D01	12
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