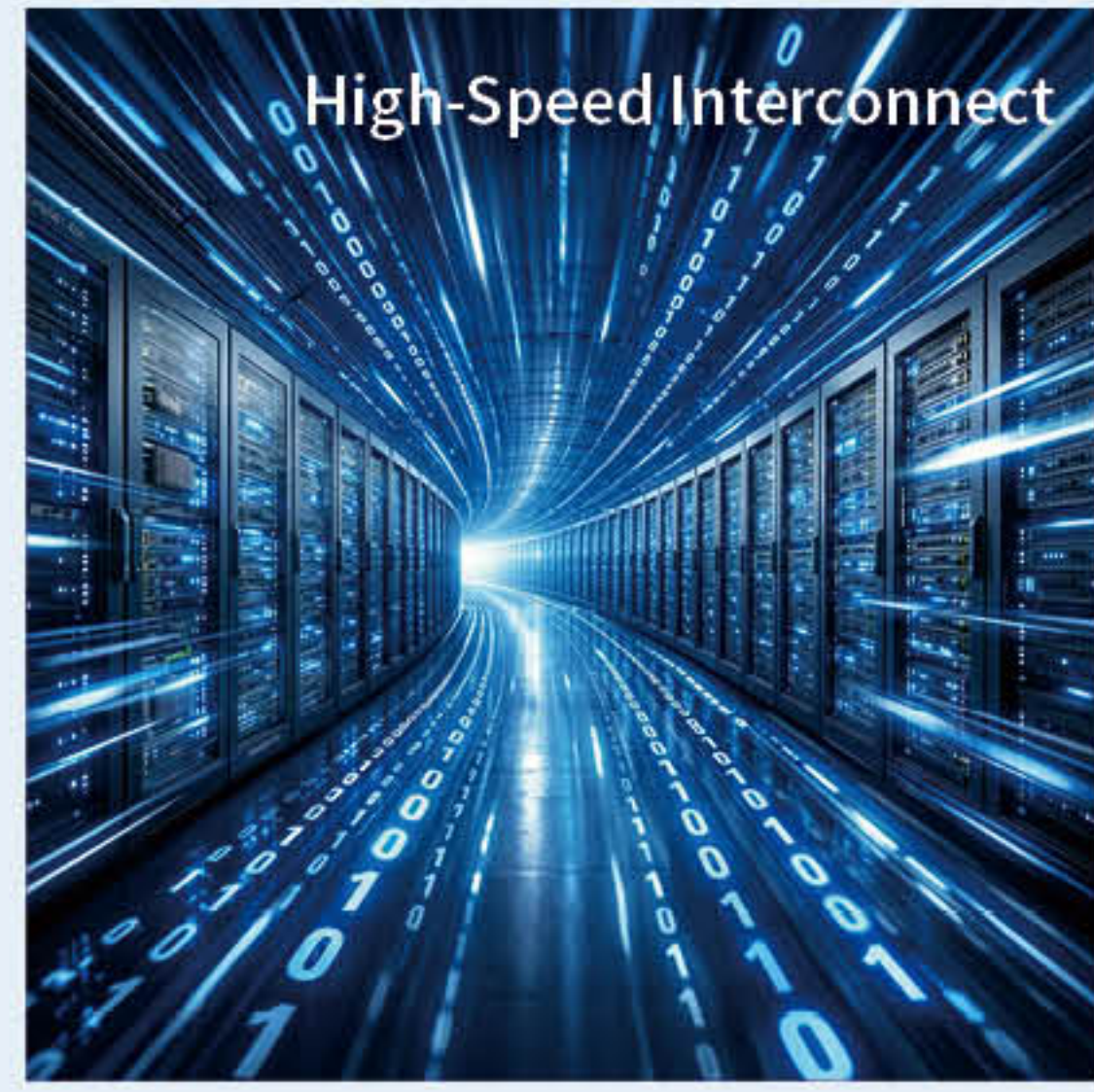




CONNECTOR

LC

- LC Uniboot Plus EZ-Pull Connector 19
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LC / SC / FC / ST

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LC / SC

- Field Installable Connector 37



LC Uniboot Plus EZ-Pull Connector

Description

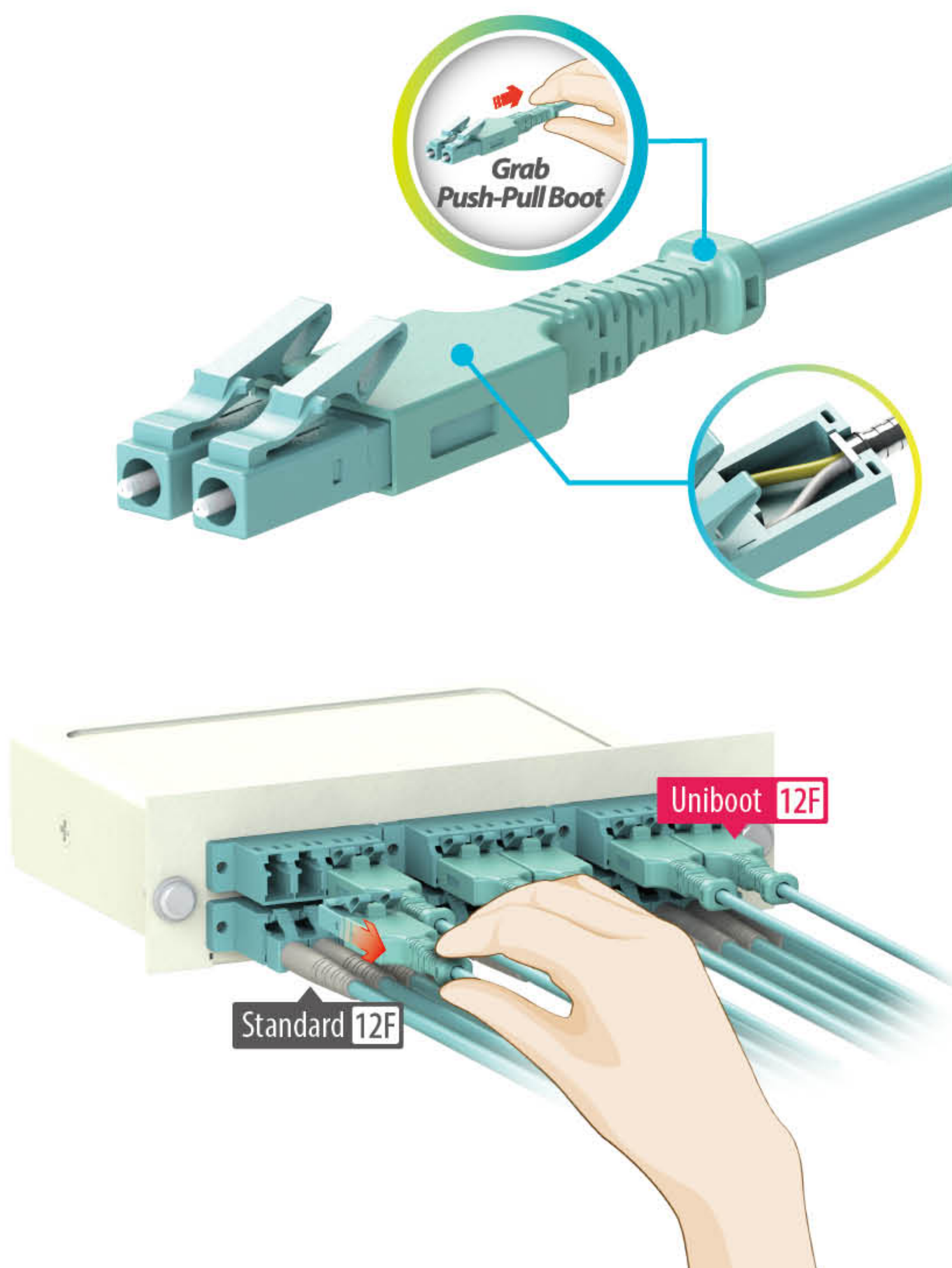
The ACON OPTICS LC Uniboot Plus EZ-Pull Connector sets a new standard in fiber optic connectivity. With its innovative easy push-pull design and enhanced boot structure, it simplifies cable management in high-density networks. Designed for modern data centers, it delivers unmatched convenience, adaptability, and performance.

Features

- Easy Push-Pull Boot: Quick insertion and removal without a tab.
- Seamless Polarity Reversal: Tool-free polarity change.
- Space-Saving Design: Optimized for high-density panels.
- Uniboot: Simplifies cable management.

Applications

- Data center
- Telecommunications
- FTTx deployments
- Optical measurement instruments
- 4G/LTE and 5G base stations
- CATV



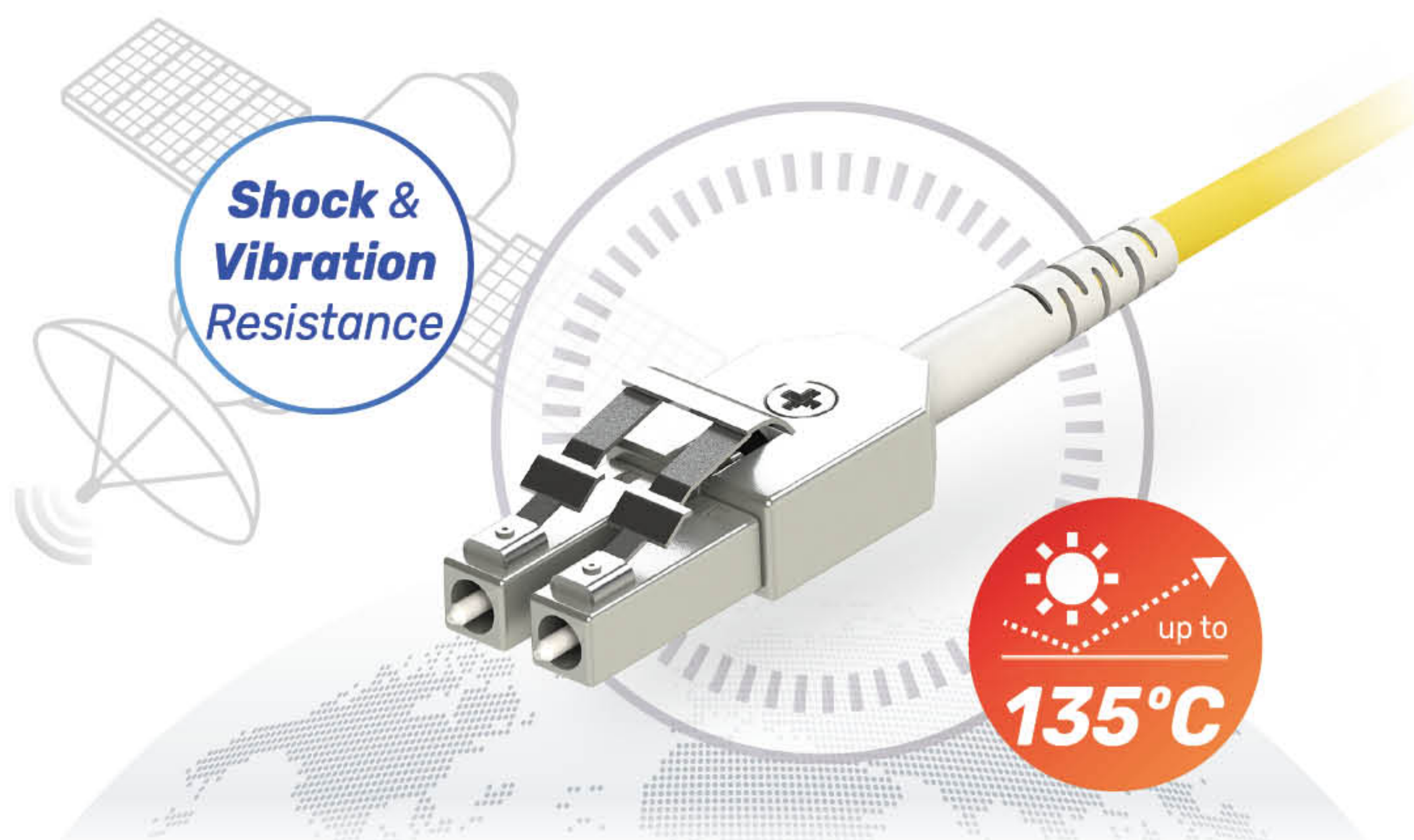
Blue (SM)	Aqua (MM)	Black (MM)
Green (SM/APC)	Erika Violet (MM)	
Beige (MM)	Lime Green (MM)	

Easy Push-Pull Boot

Just Grip the Enhanced Push-Pull Boot for Quick and Easy Connections and Disconnections.



LC Metal Uniboot Connector



Description

The ACON OPTICS LC Metal Uniboot Connector is designed for demanding environments where durability, reliability, and optical performance are essential. Featuring a robust metal housing and a space-saving uniboot design, it offers enhanced resistance to heat, shock, and vibration while simplifying cable management. The connector is ideal for industrial, aerospace, defense, data center, and telecommunications applications.

Features

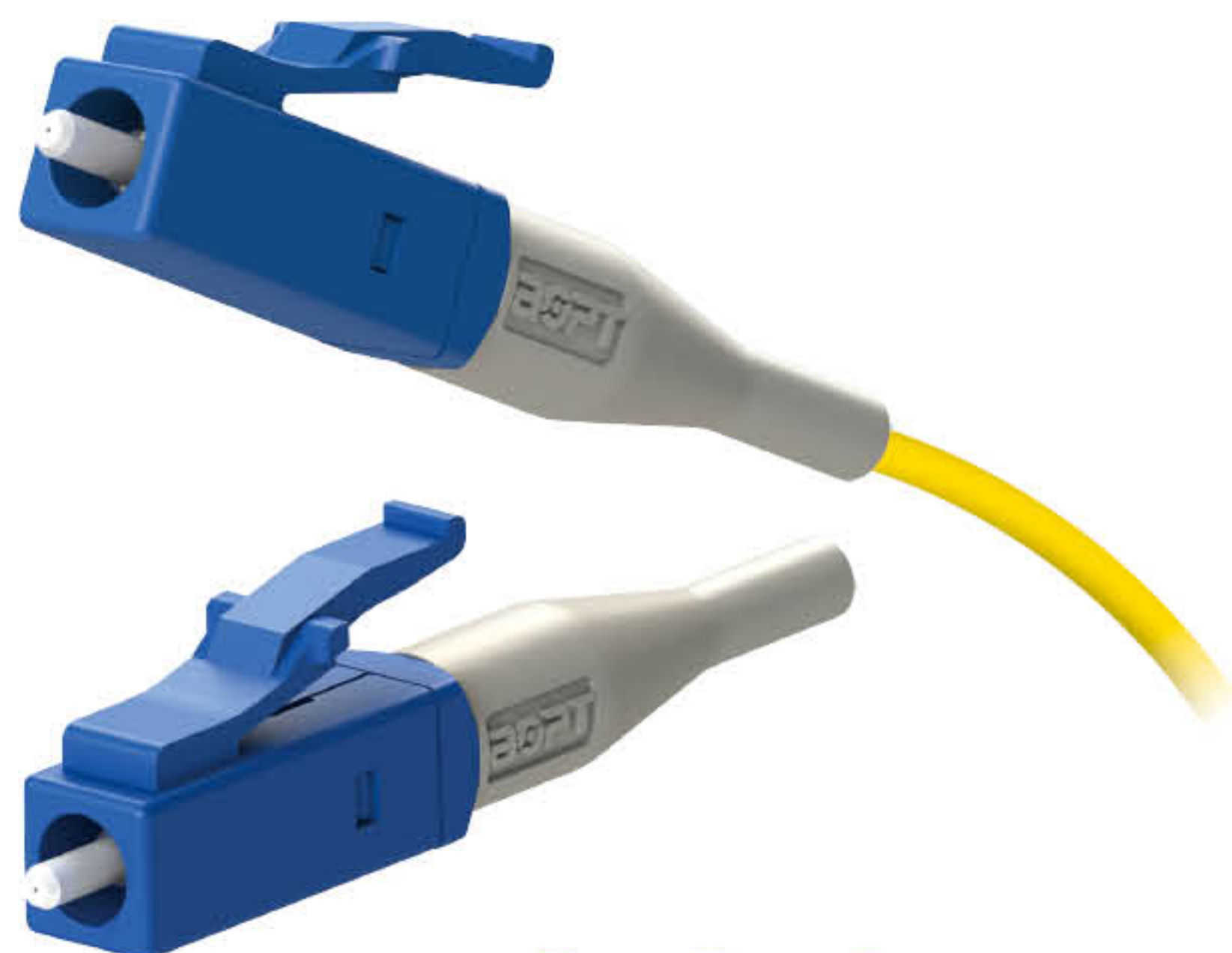
- Metal Housing for enhanced durability
- Heat Resistance up to 135°C
- Improved Shock and Vibration Resistance
- Uniboot Design simplifies cable management
- Available in Simplex & Duplex
- Supports SM/PC, SM/APC & MM/PC
- Complies with IEC 61754-20

Applications

- Industrial
- Aerospace
- Defense
- Data Centers
- Telecommunications
- FTTx Deployments



LC PRO Horizontal Latch Connector



0.9 2.0 3.0

Horizontal Latch design
maximizes space constraints.

Blue (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

Description

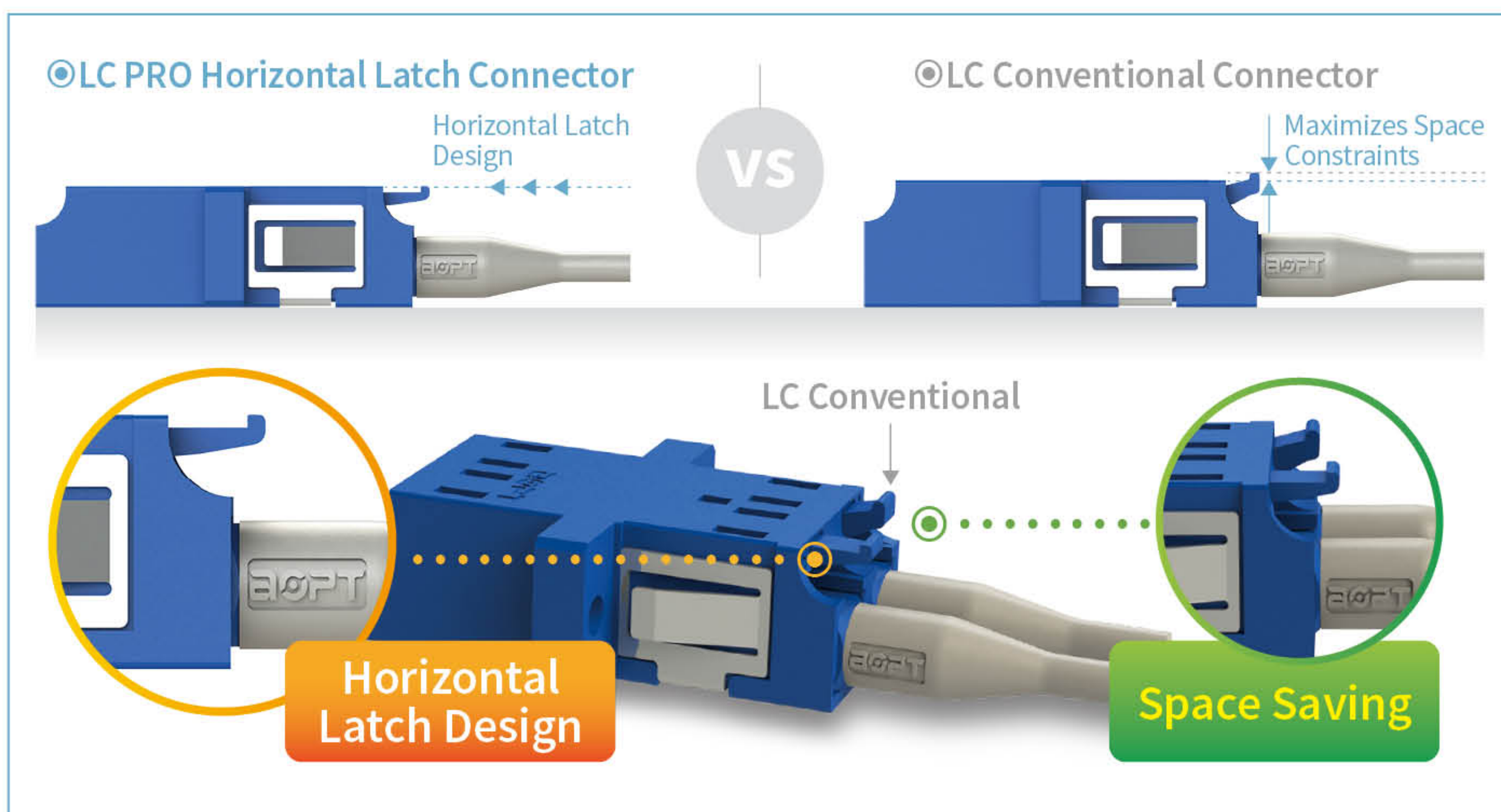
Horizontal Latch design maximizes space constraints.

Features

- Space saving is achieved by the new designed latch mechanism which is aligned to match the Adapter height.

Applications

- Data communications
- Telecommunications
- FTTx deployments
- Optical measurement instruments
- 4G/LTE, 5G base station
- CATV



LC Lite 0.9mm Connector



Description

Integrating the coupling and stopper into one piece simplifies product assembly, increasing efficiency and cost-effectiveness.

Features

- Simplified product injection reduces production costs.
- Reduced inventory items optimize inventory management.
- Simplified product assembly reduces complexity and enhances efficiency.
- Innovative square flange design to avoid the rotation and reduce insertion loss.

Applications

- Data communications
- Telecommunications
- FTTx deployments
- Optical measurement instruments
- 4G/LTE, 5G base station
- CATV

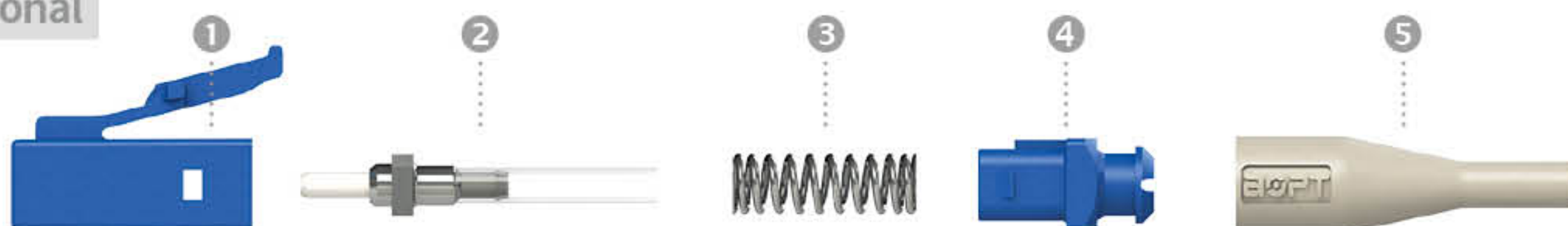
Blue (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

Square flange design
Reduce insertion loss



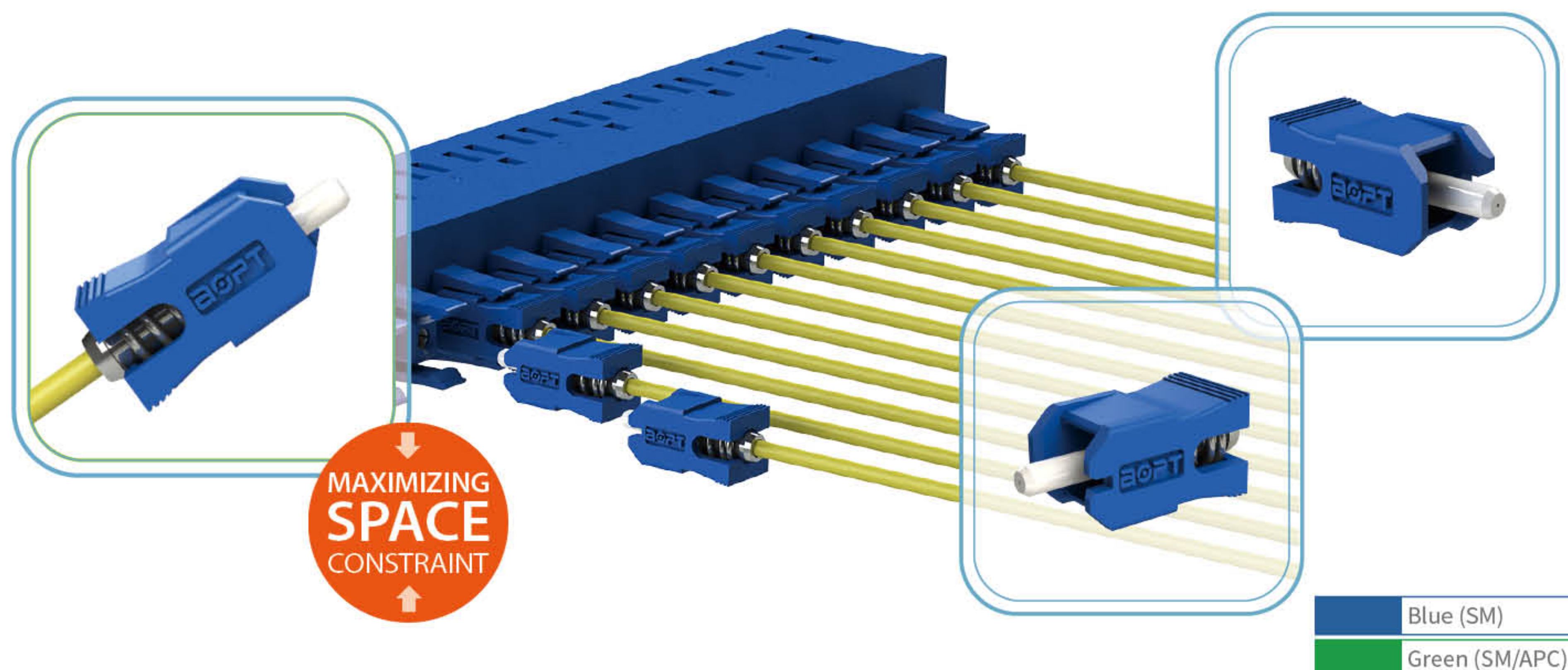
Coupling & Stopper
into one piece

LC Conventional



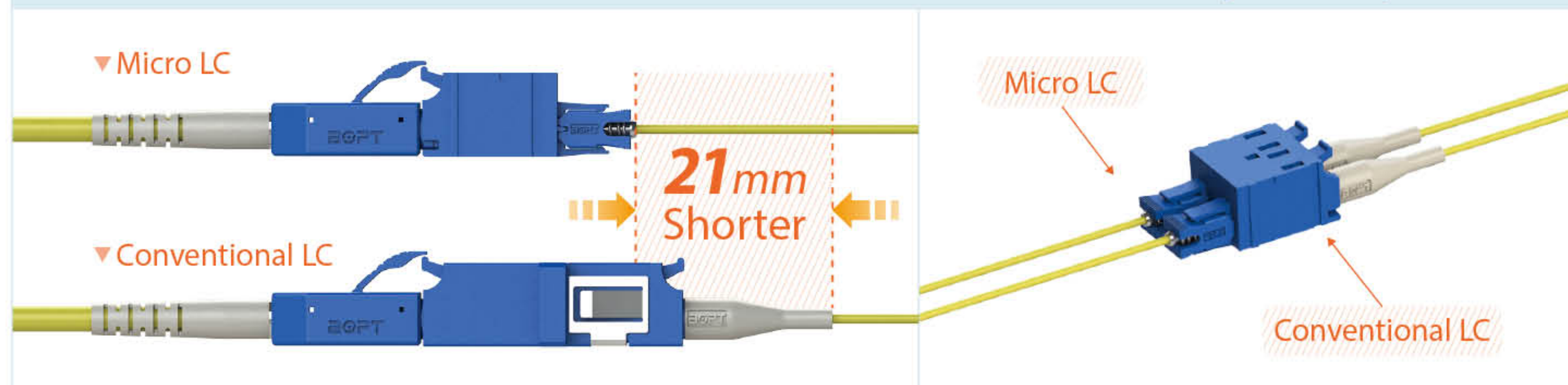


Micro LC Snap-in Connector



67% reduction in size

Stackable *Hybrid* Adapters



Description

ACON OPTICS Micro LC Connector uses a simple snap-in connector design which makes ease of connecting and disconnecting. Its bootless design maximizes space constraint ideal for behind the wall application and high density solution.

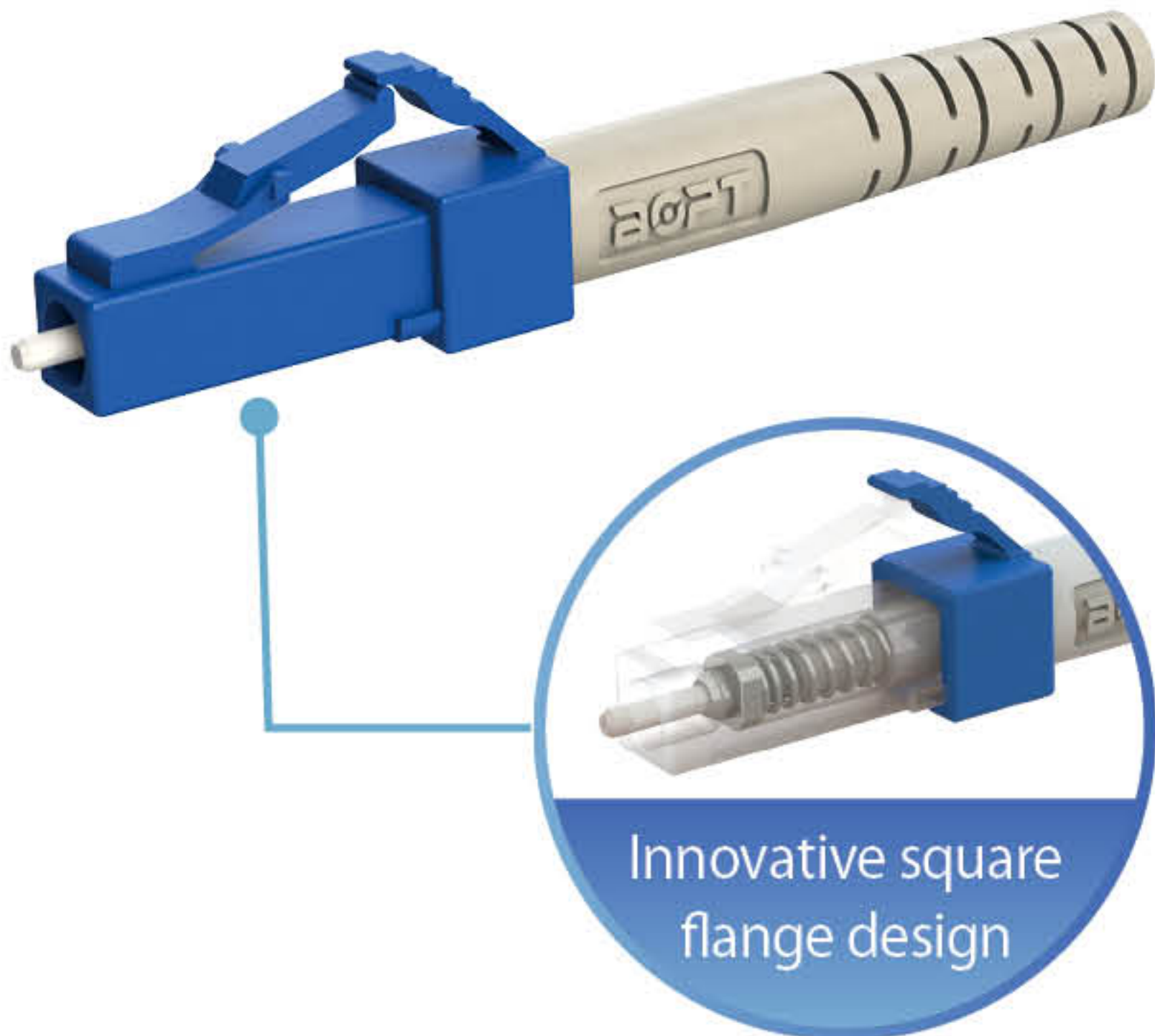
Applications

- Data communications
- Telecommunications
- Optical measurement instruments
- FTTx deployments
- 4G/LTE, 5G base station
- CATV

Features

- Simple snap-in connector design makes ease of connecting and disconnecting.
- Compatible to conventional LC
- Remarkable increase in space on the back end panel and in small cassette.
- Micro LC Adapter is a hybrid Adapter which can accommodates micro LC connector and conventional LC connector.
- The best option for BTW application and high density solution.

LC Premium Connector



INSERTION
LOSS ↓

Blue (SM)
Green (SM/APC)

Description

ACON OPTICS Communications is featuring a revolutionary LC Premium Connector that allows precise of ferrule for Grade A Patchcord, and machine free tuning.

Features

- Innovative square flange design to avoid the rotation and reduce insertion loss
- Machine free tuning process
- Premium Low Loss SM to meet IEC 61753-1 Grade A random mating requirement of Max 0.15dB.
- Premium SM to meet IEC 61753-1 Grade B random mating requirement of Max 0.25dB

Applications

- Data communications
- Telecommunications
- Optical measurement instruments
- FTTx deployments
- 4G/LTE, 5G base station
- CATV

Coupling Options



LC Premium
Standard 0.9



Grade A
0.15dB

Grade B
0.25dB



LC Premium
Standard 2.0



Grade A
0.15dB

Grade B
0.25dB



LC Premium
Unibody 0.9



Grade A
0.15dB

Grade B
0.25dB



LC Premium
Unibody 2.0

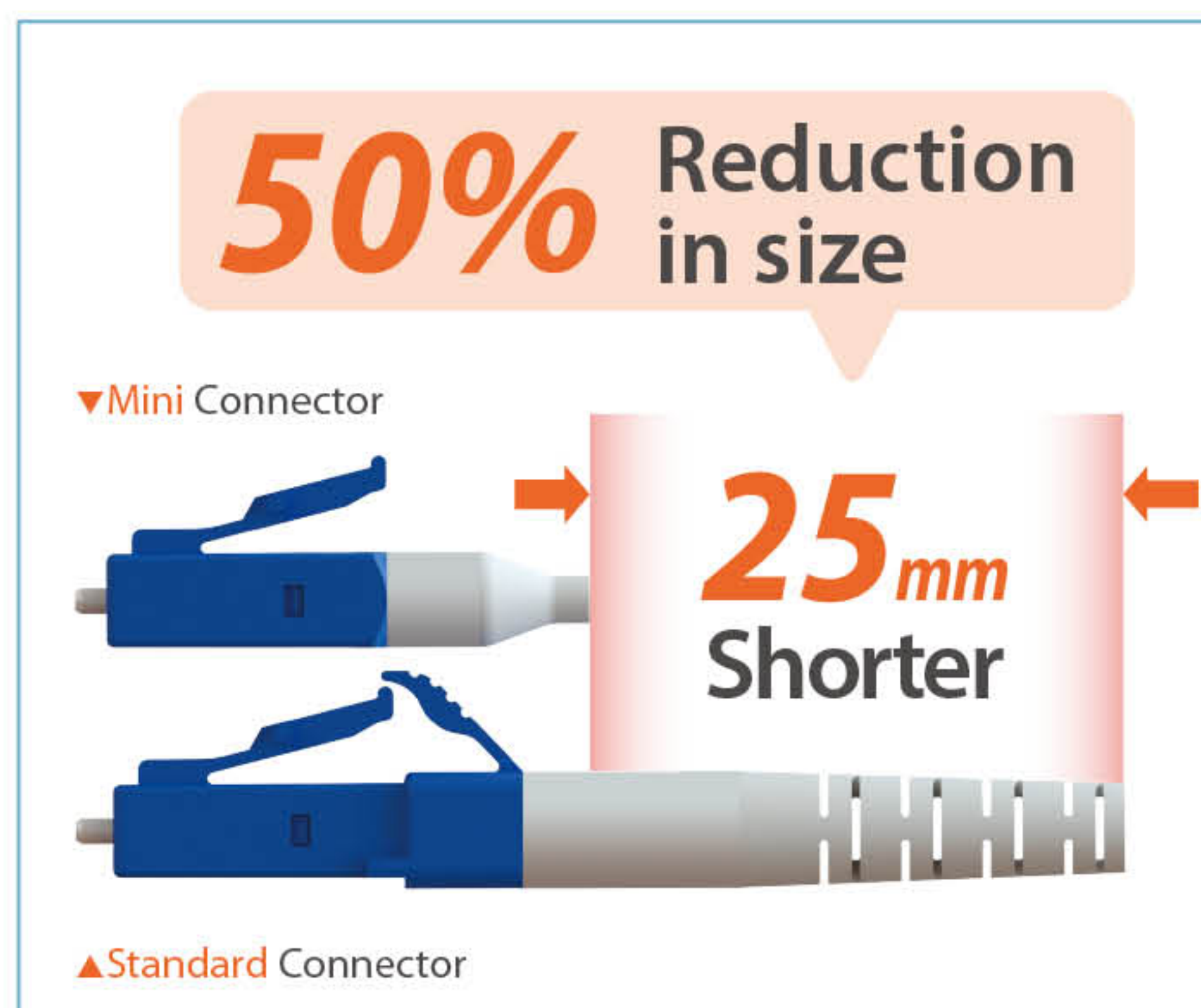
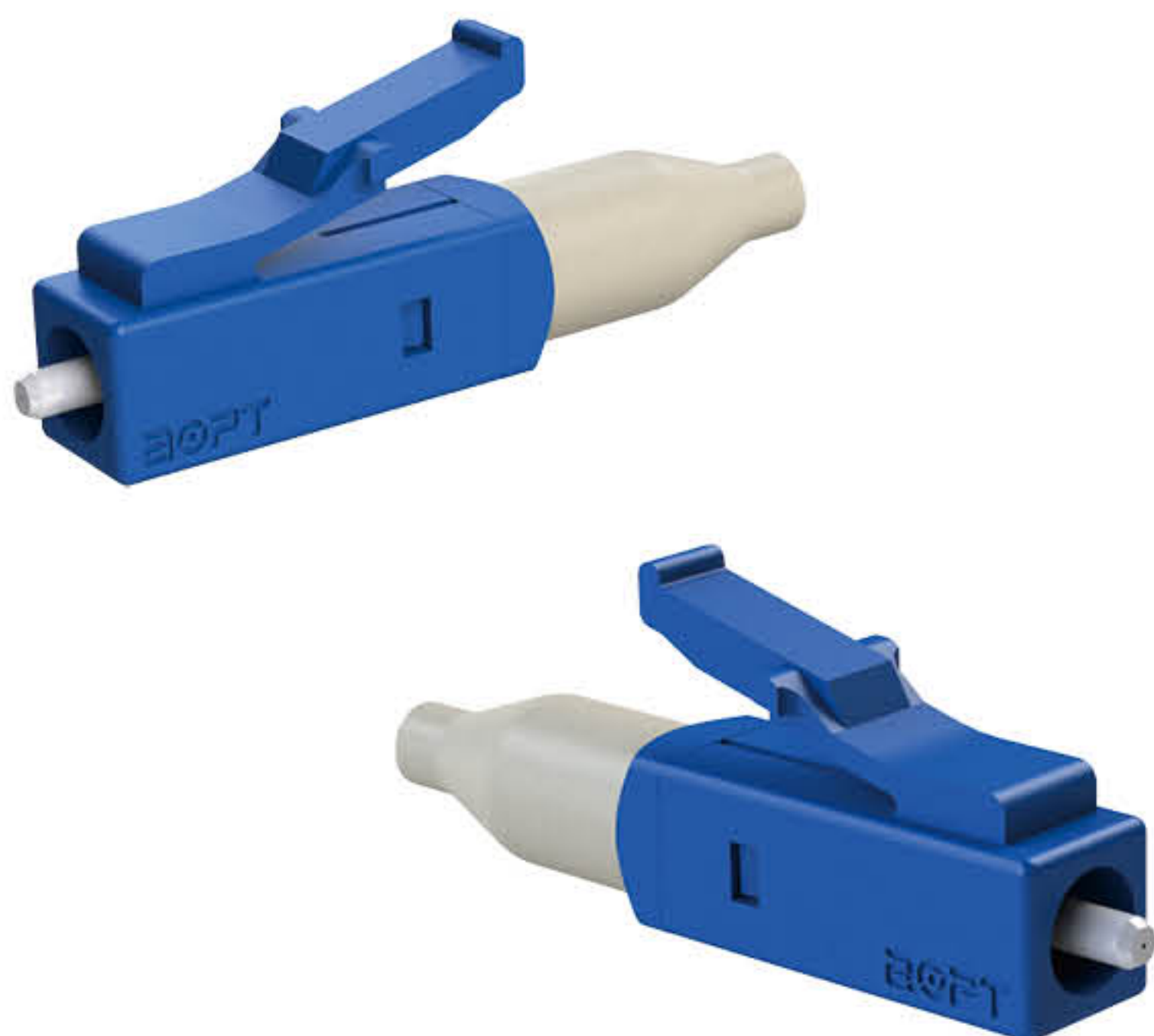


Grade A
0.15dB

Grade B
0.25dB

Features		LC Premium Low Loss SM	LC Premium SM	LC Standard SM
IL Mean Value Random Mating		0.07dB	0.12dB	0.25dB
IEC 61753-1	IEC Random Mating Grade A ≤ 0.15dB max for >97% of sample	★		
	IEC Random Mating Grade B ≤ 0.25dB max for >97% of sample	★	★	
	IEC Random Mating Grade C ≤ 0.50dB max for >97% of sample	★	★	★
Innovative square flange design		★	★	
Standard hexagon flange design				★
Machine free tuning process		★	★	

LC Mini 25mm Connector



Blue (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

Description

ACON OPTICS Communications is featuring a revolutionary LC 25mm Connector that has an 25mm space saving compared to the current market connectors. The only smallest behind the wall (BTW) LC connector in the world.

Applications

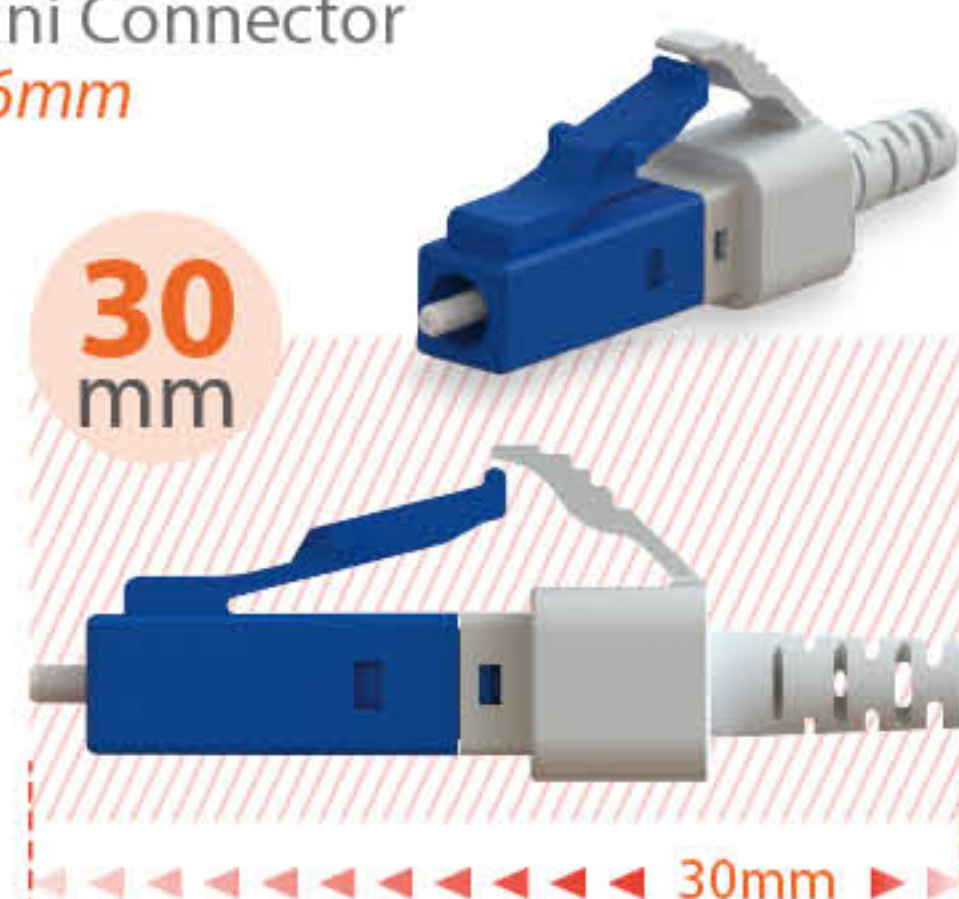
- Data communications
- Telecommunications
- Optical measurement instruments
- FTTx deployments
- 4G/LTE, 5G base station
- CATV

Features

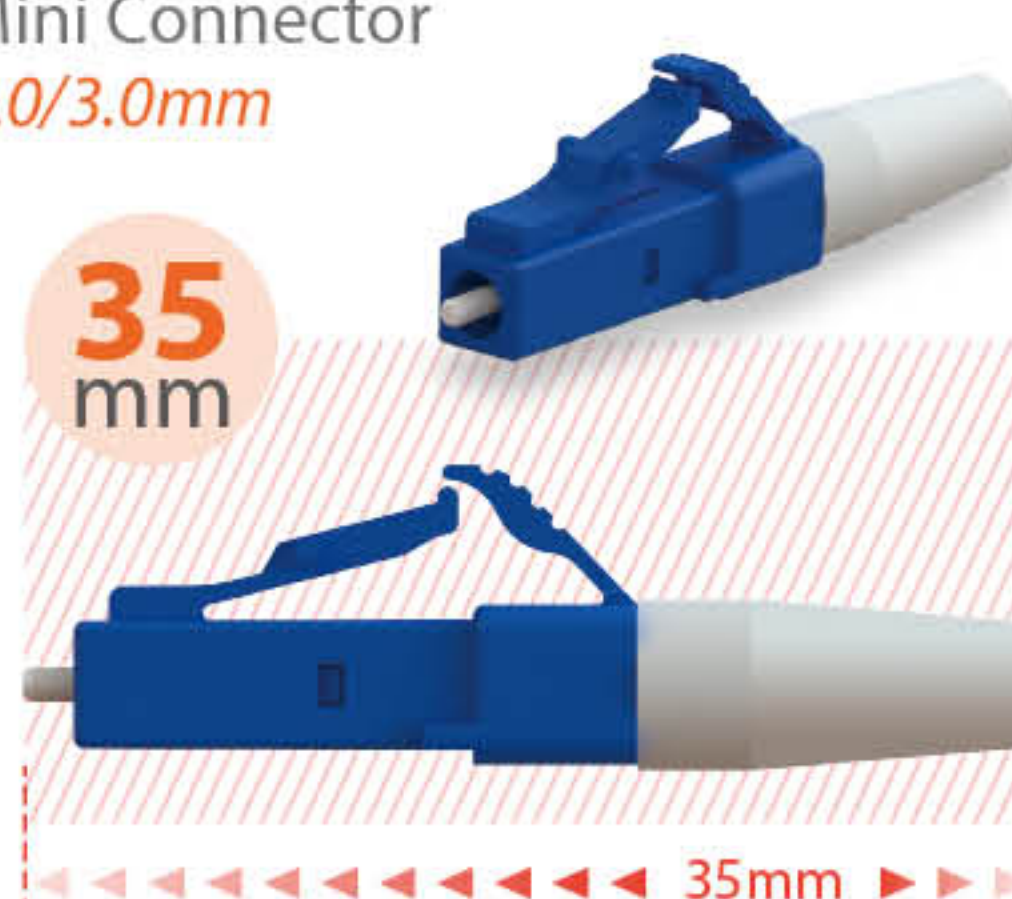
- World compact BTW LC with 900μm mini boot.
- Connector is half the length as compared to standard LC.
- Short boot design to save space for adapting small cassette.
- Remarkable increase in space on the back end panel.

More LC Mini Connector Options

Mini Connector
1.6mm



Mini Connector
2.0/3.0mm



Mini Connector
2.0/3.0mm



LC Standard Connector

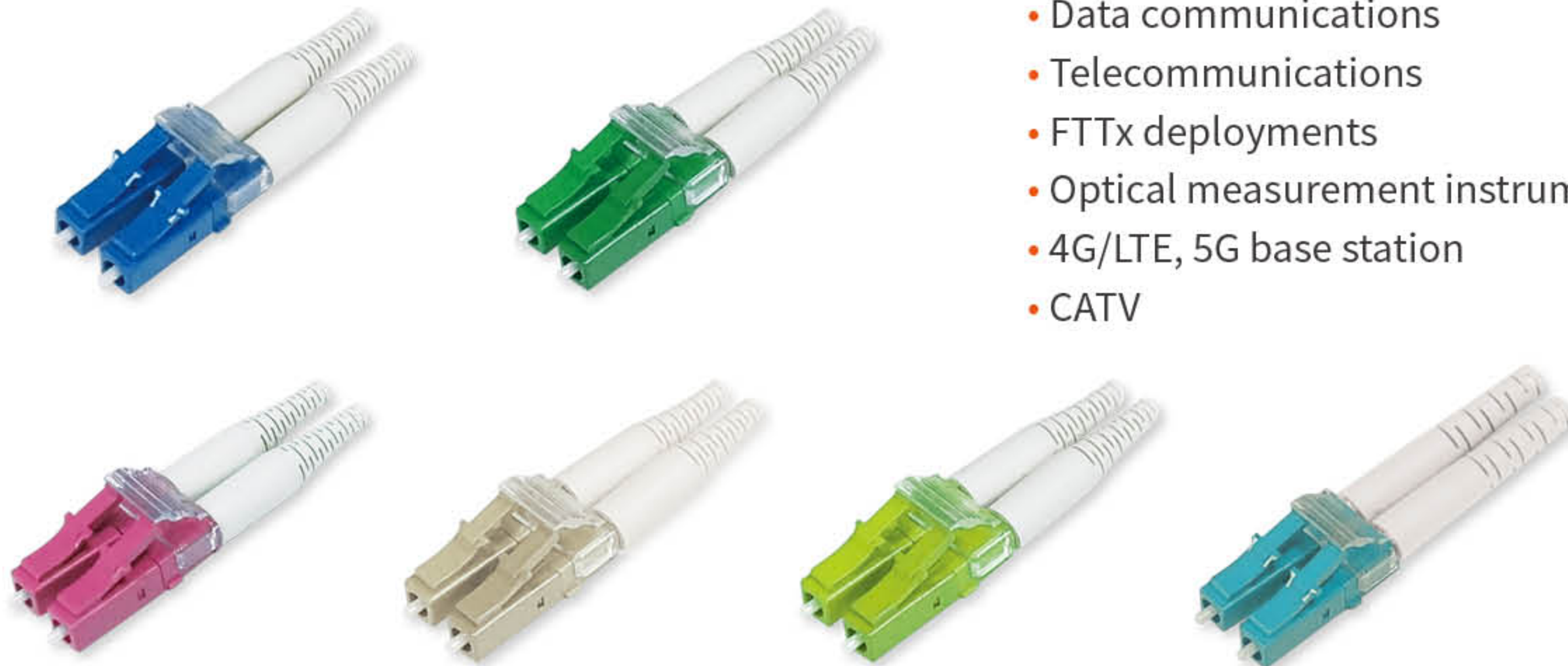
● LC Standard 45mm



● LC Standard 50mm



● LC Standard Series



Blue (SM)
Green (SM/APC)
Beige (MM)
Aqua (MM)
Erika Violet (MM)
Lime Green (MM)

Description

ACON OPTICS LC Standard Connector has been our flagship product for more than 16 years. ACON OPTICS LC connectors are manufactured with PEI material. In-house ferrule and plastic injection gives vertically quality control. Telcordia GR-326, IEC, RoHS2, REACH, UL94V-0 standard compliance also gives reliability.

Features

- One-piece type or multi-piece type for assembly options
- 0.9, 2.0, 3.0mm cable diameter available
- Colored boots for choices
- In-house ferrule and plastic injection
- Telcordia GR-326, IEC, RoHS2, REACH, UL94V-0 standard complying

Applications

- Data communications
- Telecommunications
- FTTx deployments
- Optical measurement instruments
- 4G/LTE, 5G base station
- CATV

LC Specification

Assembling Type	Other Requirement	Diameter (mm)	Type
One Piece Multi Piece	LC 13.8mm Short Boot	0.9	Simplex Duplex
	LC 20.4mm Short Boot	1.2	
	LC 23mm Universal Boot	1.4	
	Mini LC	1.6	
	LC Unibody	1.8	
	90 Degrees Boot	2.0	
	45 Degrees Boot	2.4	
		3.0	
		4.0	



LC Switchable Uniboot Connector



Description

ACON OPTICS LC Switchable Uniboot Connector has a clever design which allows duplex LC fiber polarity to be switched easily without connector re-termination.

Features

- Meet EIA/TIA 604-10 & IEC 61754-20 standards
- Easy 3 steps to switch
- Boot type for option 2.0/4.8mm diameter
- High precision

Applications

- Data communications
- Telecommunications
- FTTx deployments
- Testing instruments
- 4G/LTE base station
- CATV

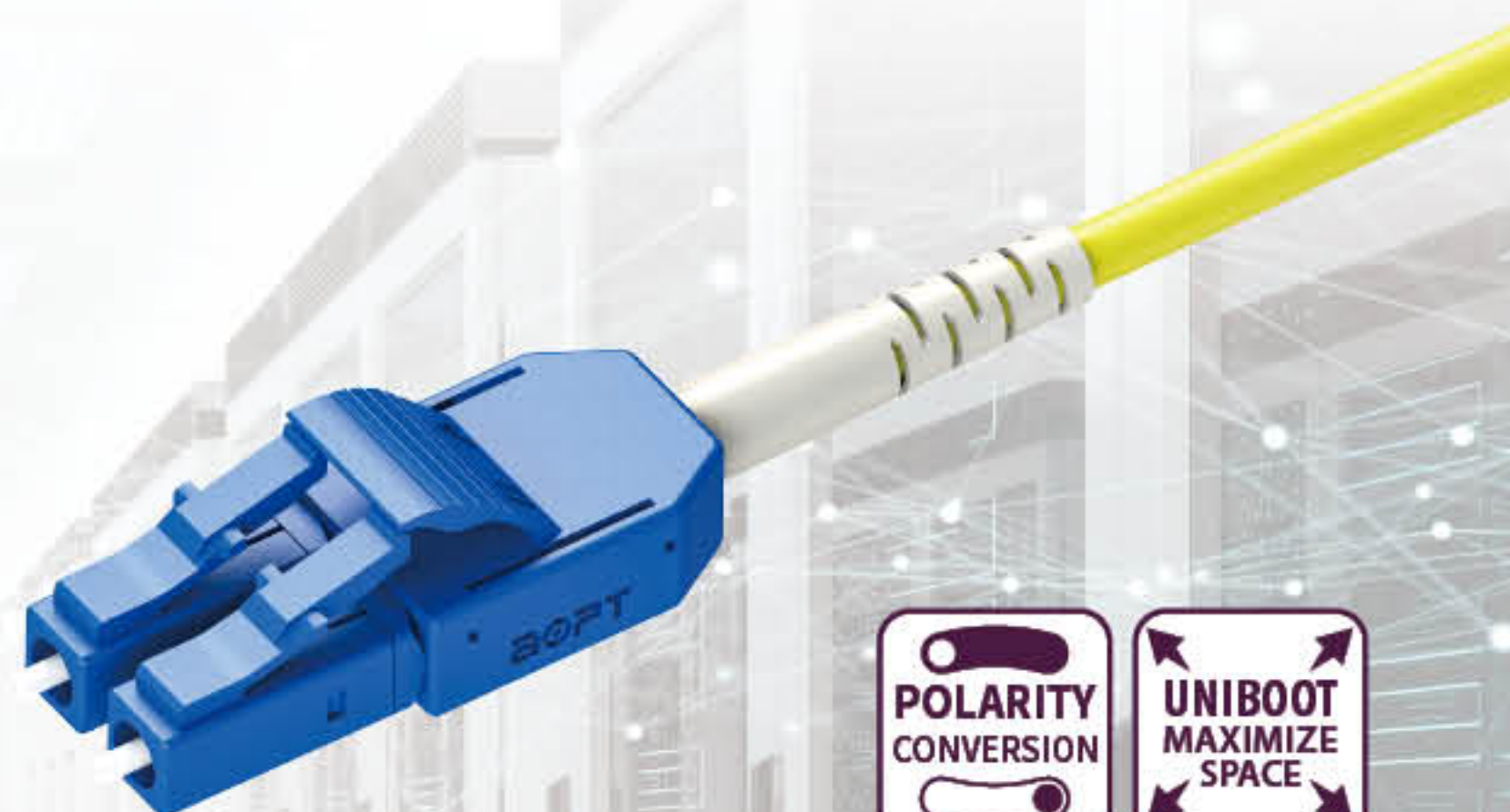


Blue (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

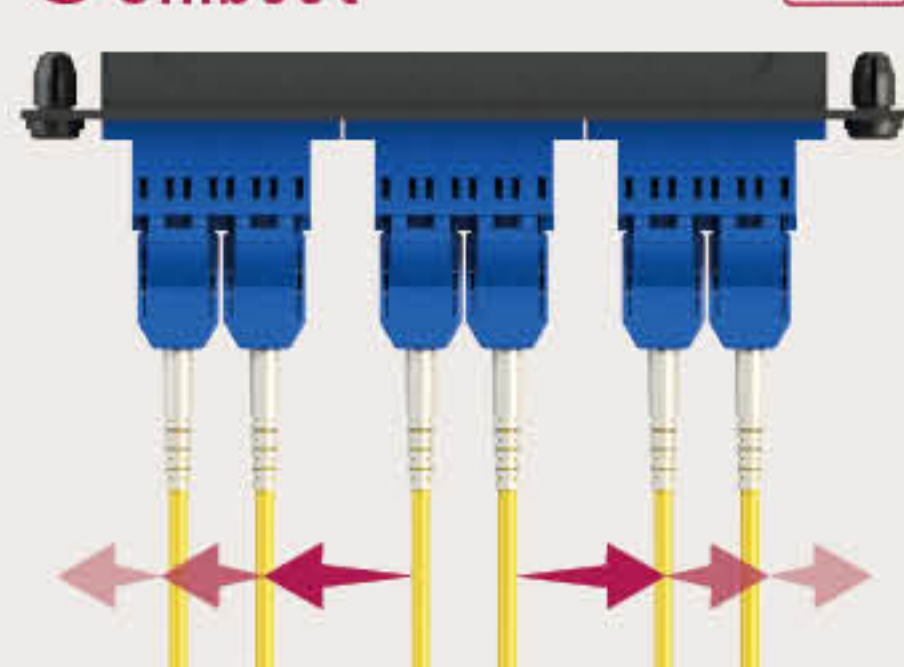
LC Switchable Uniboot Connector

Maximizing Space with Uniboot Design.
Uniboot assists in cable management.

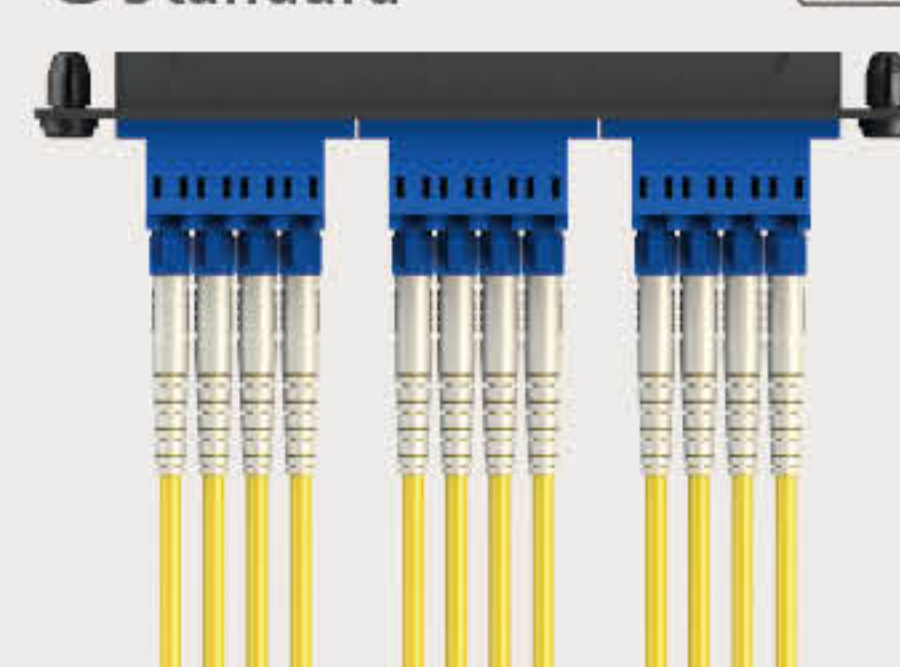
**50%
REDUCTION
IN CABLES**



① Uniboot 12F



② Standard 12F



LC HD Uniboot Connector



● LC HD Uniboot Mini Push-Pull Tab



● LC HD Uniboot Tab (Fixed)



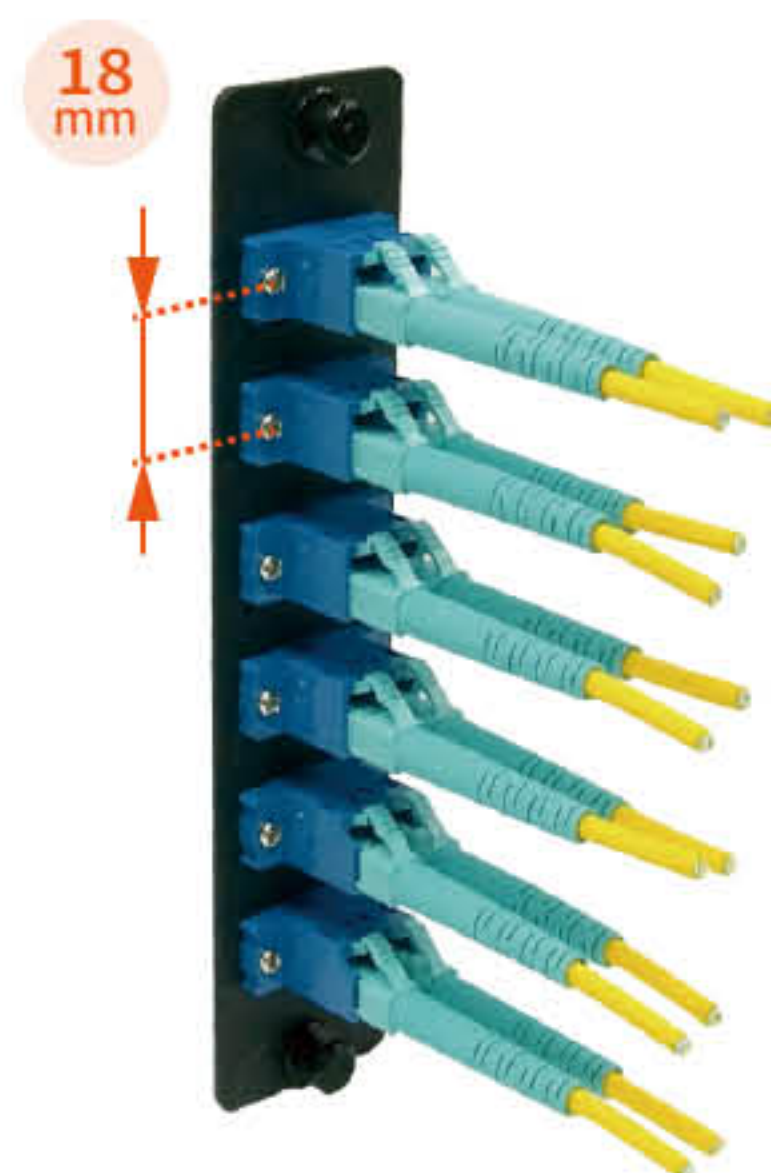
● LC HD Uniboot Tab (2-Step)



Features

- ACON OPTICS unique design
- Activation of lever provides ease of connect and disconnect.
- No special tools are required.
- Mini boot allows for more assembly space.
- Increase panel density by more than 50%.
- Corning and various fiber options

● Conventional rack
6 pack spacing



● High density rack
10 pack spacing

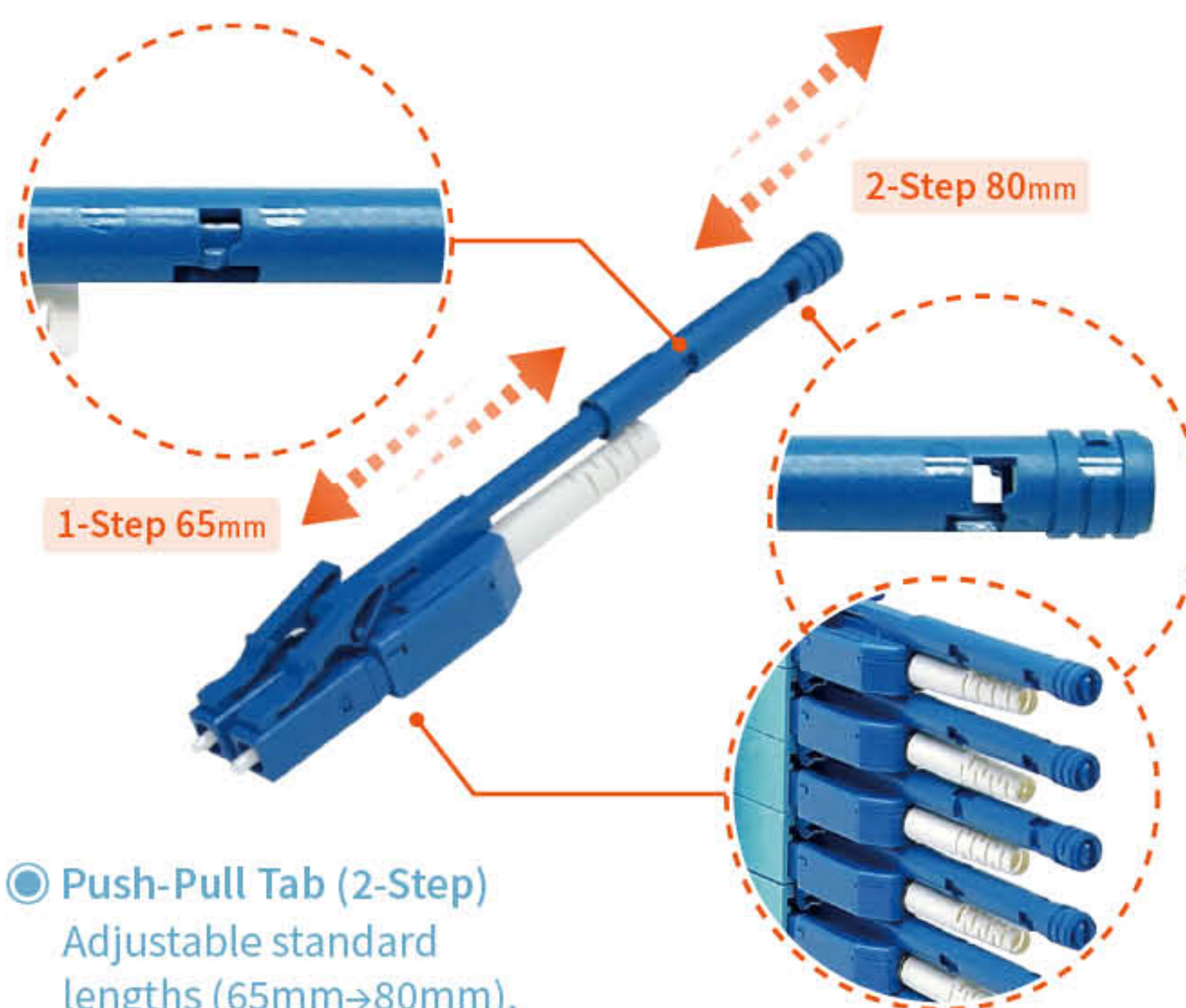


Description

ACON OPTICS LC HD Uniboot Connector features a push-pull tab design that increases panel density by more than 50%. The design enables easy connector disengagement from densely populated panels without the need for tools.

Applications

- Data communications
- FTTx deployments
- Optical measurement instruments
- Telecommunications
- 4G/LTE, 5G base station
- CATV



- Push-Pull Tab (2-Step)
Adjustable standard lengths (65mm→80mm), easy for high-density cable management.

Blue (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

LC HD Uniboot Specification

Assembling Type	Diameter (mm)	Type
One Piece	2.0	Switchable
Multi Piece	3.0	2-Step rod (65mm→80mm) Fixed rod (78mm)



SC Pushable / Pulling Eye Connector



● Pushable



● Pulling Eye



Install inside microducts
5.5 mm I.D.

Install inside microducts
6.5 mm I.D.

Description

A simple and costs effective optical fiber assembly deployment that is easy to use without compromising the optical fiber integrity or reliability. ACON OPTICS Pushable/Pulling Eye Connector offers a simple and flexible solution for FTTx deployment.

Features

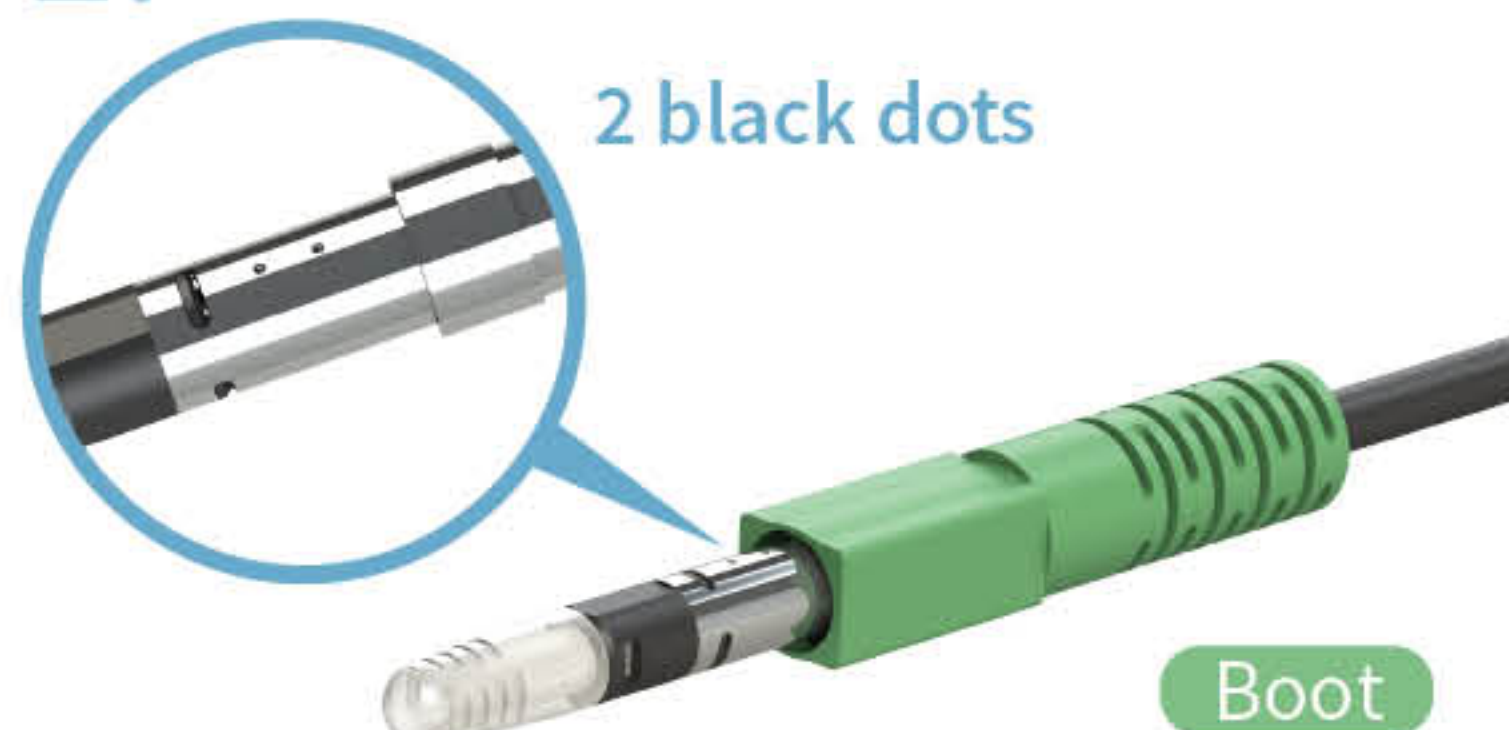
- Complies with IEC60874-14-2
- Guaranteed insertion loss & return loss with certification
- Install inside microducts as small as 5.5 mm I.D. (Pushable)/6.5 mm I.D. (Pulling Eye)
- Single-mode APC
- Low friction mechanism design
- Tool-less installation
- Pre-terminated pushable/pulling eye connectors

Applications

- FTTx indoor/outdoor cable
- Telecoms
- DAS

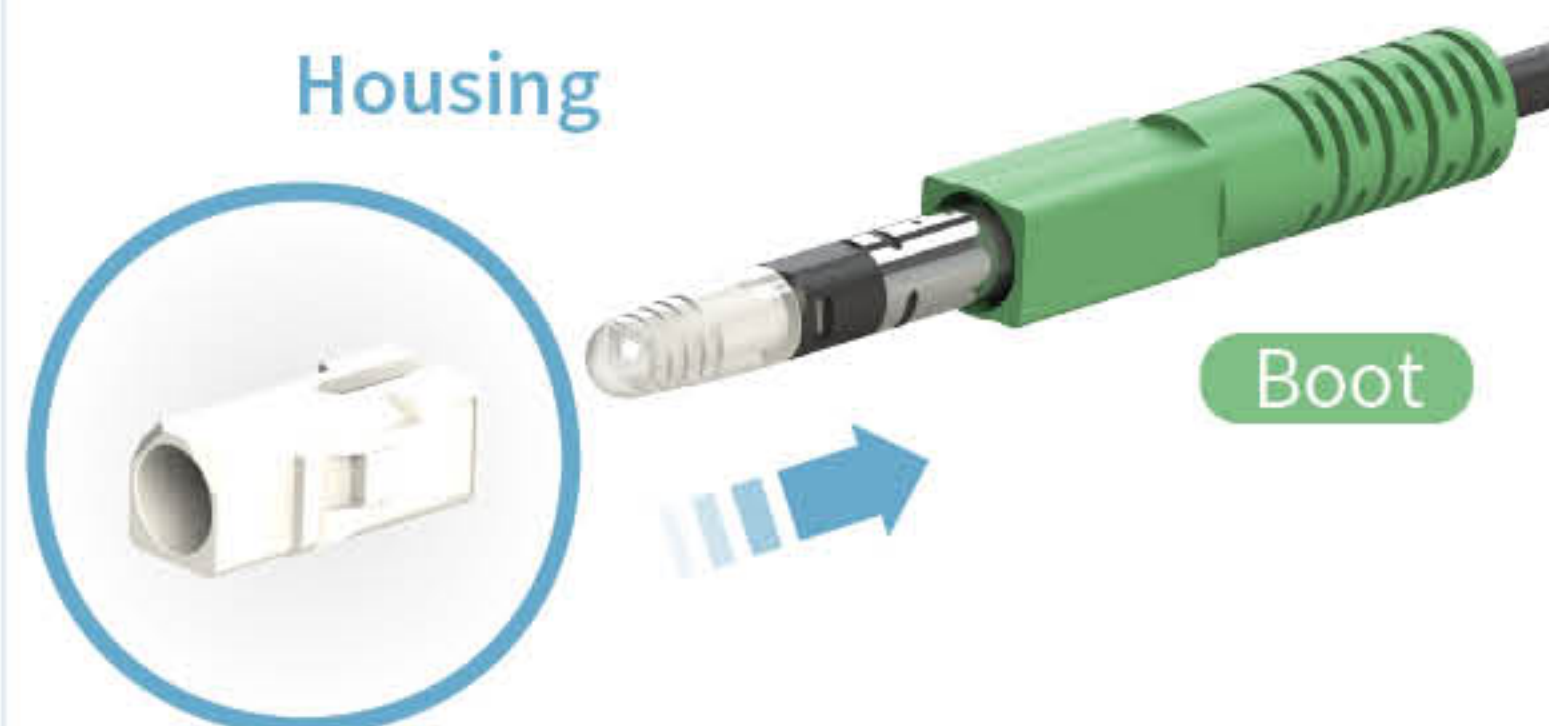
Installation

1.



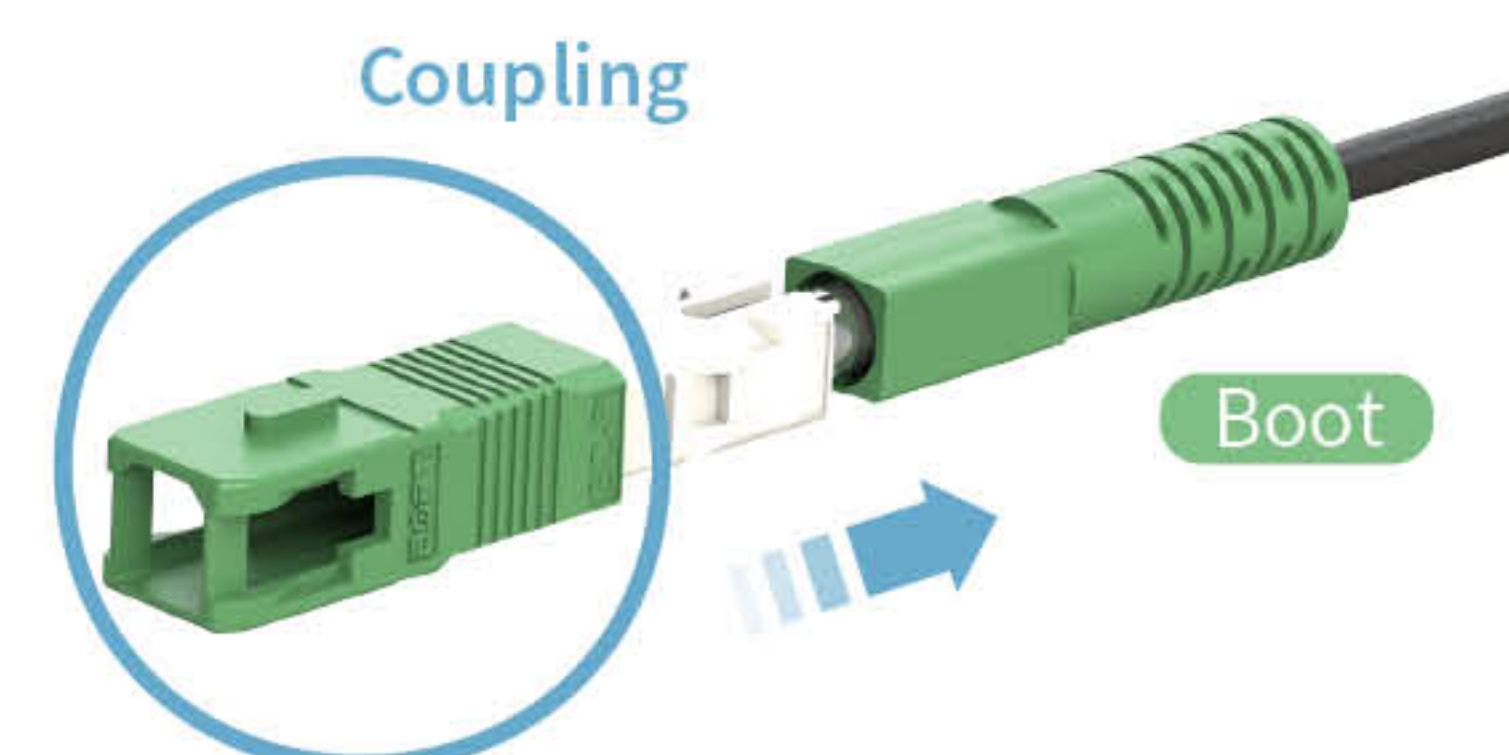
Slide boot over the body of the connector by aligning the 2 black dots on the body of the connector until it snaps into place.

2.



Insert the housing.

3.



Slide the coupling over the housing until it snaps into place.

SC Simplex / Duplex Connector

SC Universal Boot



L40 mm Boot 10mm

SC Short Boot Type



L50 mm Boot 18mm

SC Standard Type



L57 mm Boot 27mm

SC Duplex Connector



SC Specification			
Assembling Type	Other Requirement	Diameter (mm)	Type
One Piece Multi Piece	Universal Boot Short Boot	0.9	Simplex Duplex
		1.2	
		1.6	
		1.8	
		2.0	
		2.4	
		3.0	
		4.0	

45° boot



90° boot



Angle Boot

Features

- 45 degrees / 90 degrees boot for option.
- Designed for LC type 2.0/3.0mm connectors.
- Better cable management with increasing space.

FC / ST Connector

FC Connector



FC Connector



FC Connector



FC Specification			
Assembling Type	Other Requirement	Diameter (mm)	Type
One Piece Multi Piece	23mm Short Boot 30mm Short Boot	0.9	Simplex
		1.2	
		1.8	
		2.0	
		2.4	
		3.0	

ST Connector



ST Connector



ST Connector



ST Specification		
Assembling Type	Diameter (mm)	Type
One Piece Multi Piece	0.9	Simplex
	1.2	
	1.8	
	2.0	
	2.4	
	3.0	

LC / SC / FC / ST Universal Connector

Description

ACON OPTICS Universal Boot series gives the highest value for better stocks management and consistent process.

1.2/1.6mm



Features

- Suitable for standard LC / SC / FC / ST product
- Shorten boot length
- Makes you well management of products
- Shorten lead time

2.0mm



Applications

- Data communications
- Telecommunications
- FTTx deployments
- Optical measurement instruments
- 4G/LTE, 5G base station
- CATV

3.0mm



ACON OPTICS provides a wide range of universal boot selections

Before

LC



SC



FC



ST



Universal Boot

1.2 / 1.6 mm



2.0 mm



3.0 mm



After

LC



SC



FC



ST



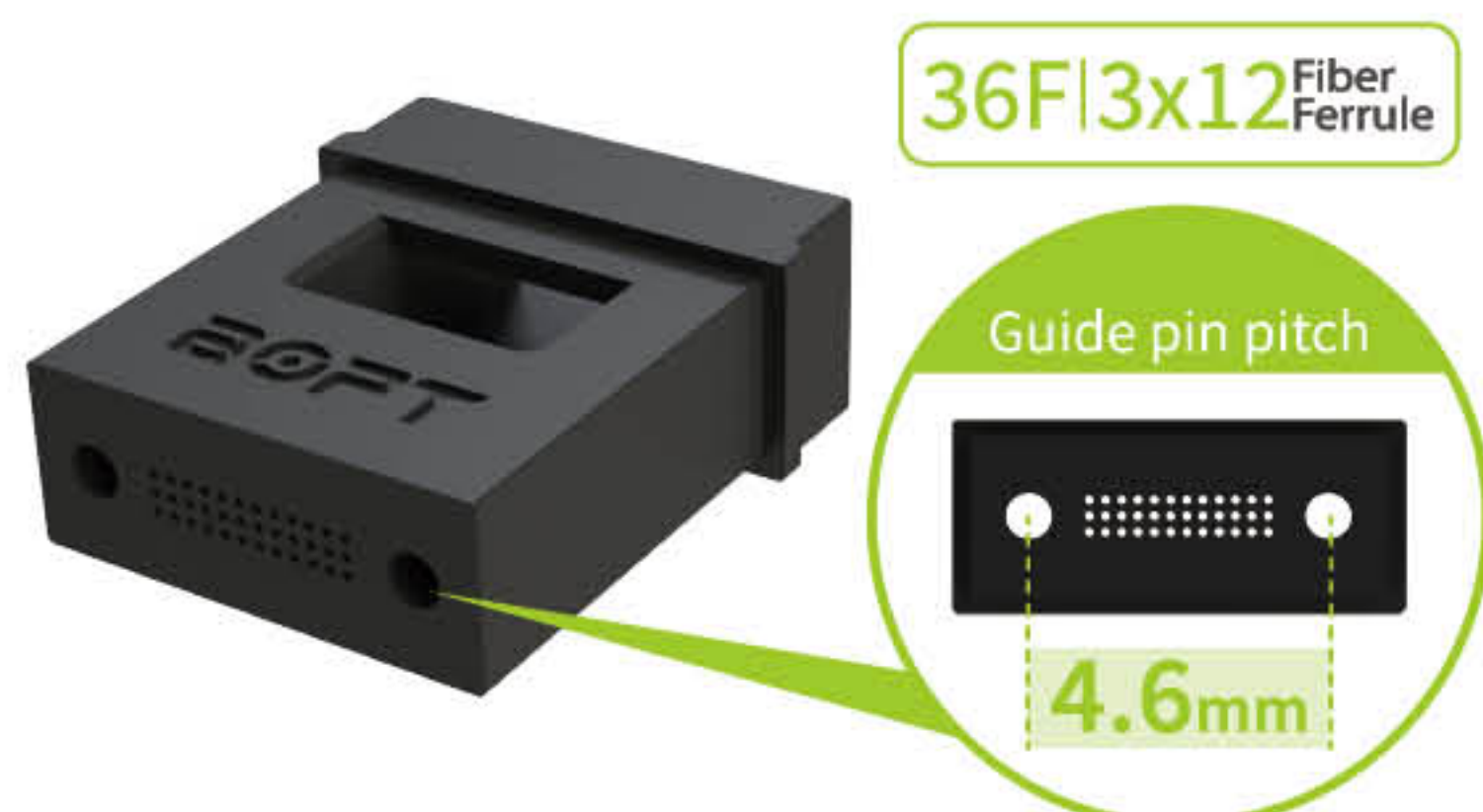
Universal Type Boot Specification

Connector Type	Assembling Type	Type	Diameter (mm)	Boot Length
LC	One Piece Multi Piece	Simplex Duplex	1.2	23mm
SC			1.6	
FC			2.0	
ST			3.0	

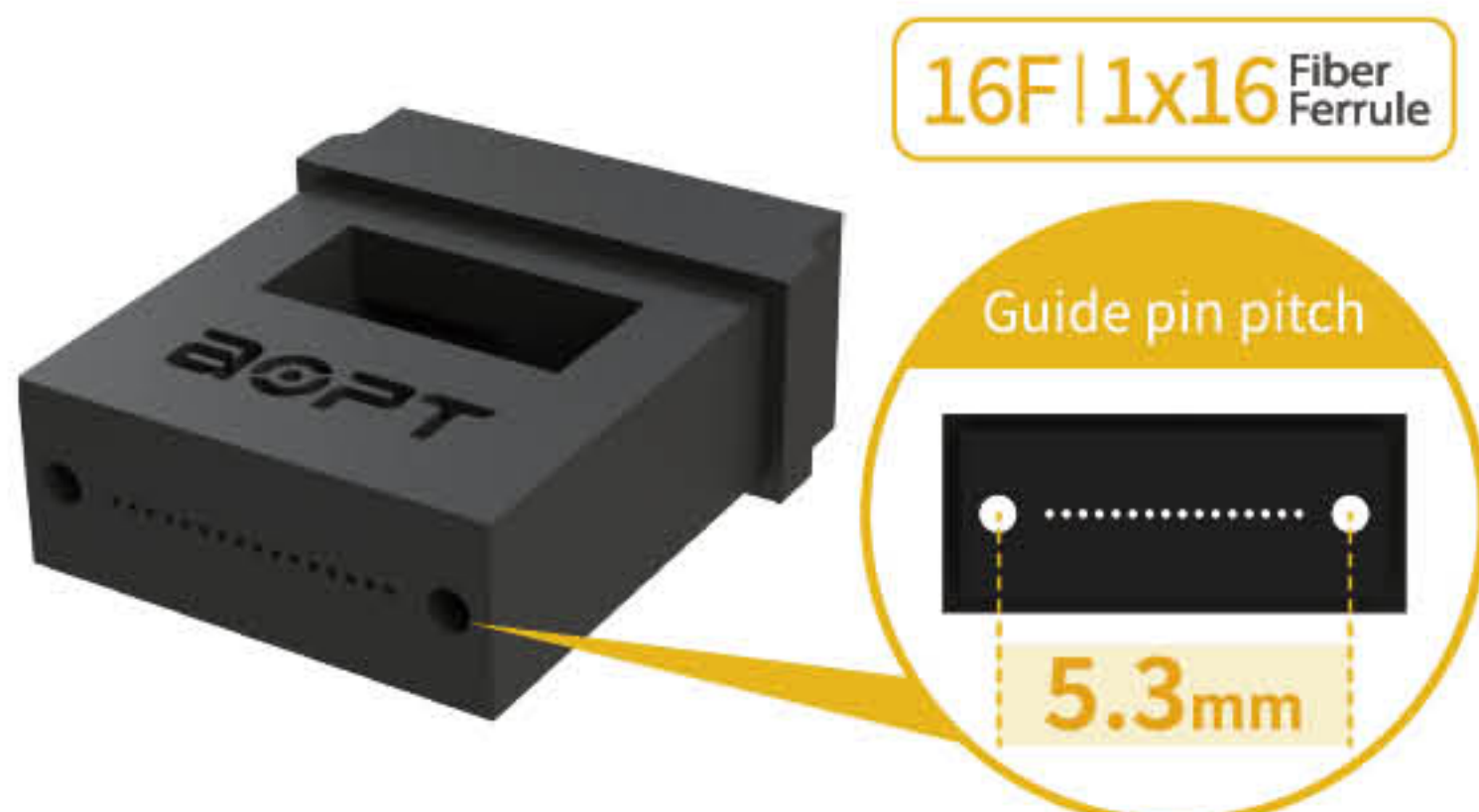
MT Ferrule

SUPPORT
800G
1.6T

MT Ferrule SM/MM 36F



MT Ferrule SM/MM 16F



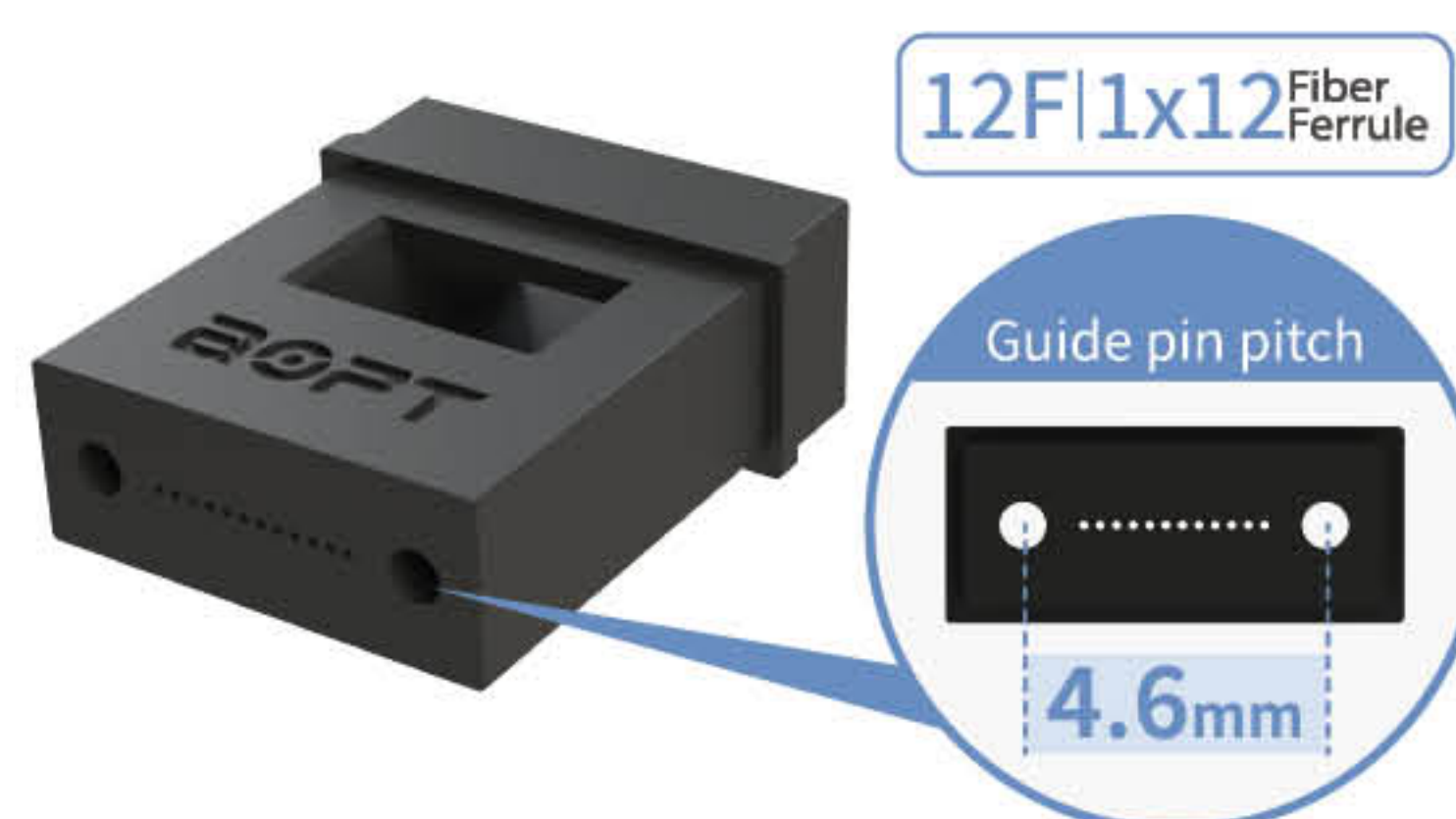
Description

ACON OPTICS provides a range of MT ferrules designed to meet diverse performance requirements, catering to specific applications and fiber count needs. Our offerings include both singlemode and multimode ferrules, available in standard as well as low-loss performances.

Applications

- MPO/MTP cable assemblies
- Optical connectivity for OBO backplane
- Multi-channels high speed connectivity
- Data center application
- FTTx deployment
- Telecommunications
- WDM networks

MT Ferrule SM/MM 12F

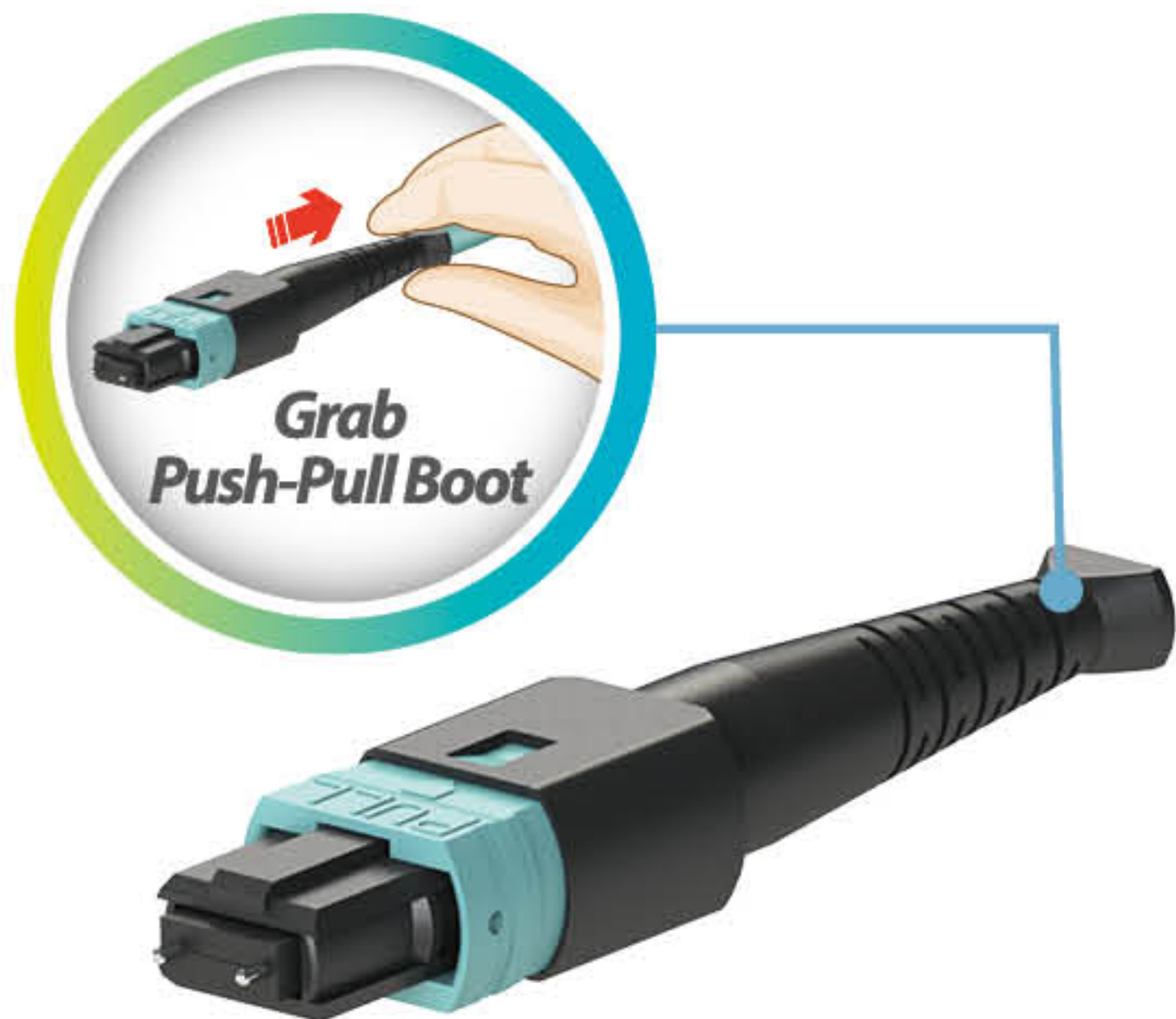


Features	36F MT Ferrule	16F MT Ferrule	12F MT Ferrule
High precision guide pin	★	★	★
Guide pin pitch	4.6mm	5.3mm	4.6mm
Fiber pitch of 0.25mm	★	★	★
High precision molding for high performance	★	★	★
Standard insertion loss of MAX 0.7 dB	★	★	★
Available to support for 400G and 800G link applications	★	★	★
Complies with IEC 61754-5; 61754-7; TIA 604-18		★	
Complies with IEC 61754-5; IEC 61754-7; TIA 604-5	★		★

MT Ferrule Specification				
Description	Standard		Low Loss	
Mode	SM	MM	SM	MM
Insertion Loss Maximum	0.70dB	0.50dB	0.35dB	
Return Loss	> 60dB	> 25dB	> 60dB	> 25dB



MPO EZ-Pull Connector



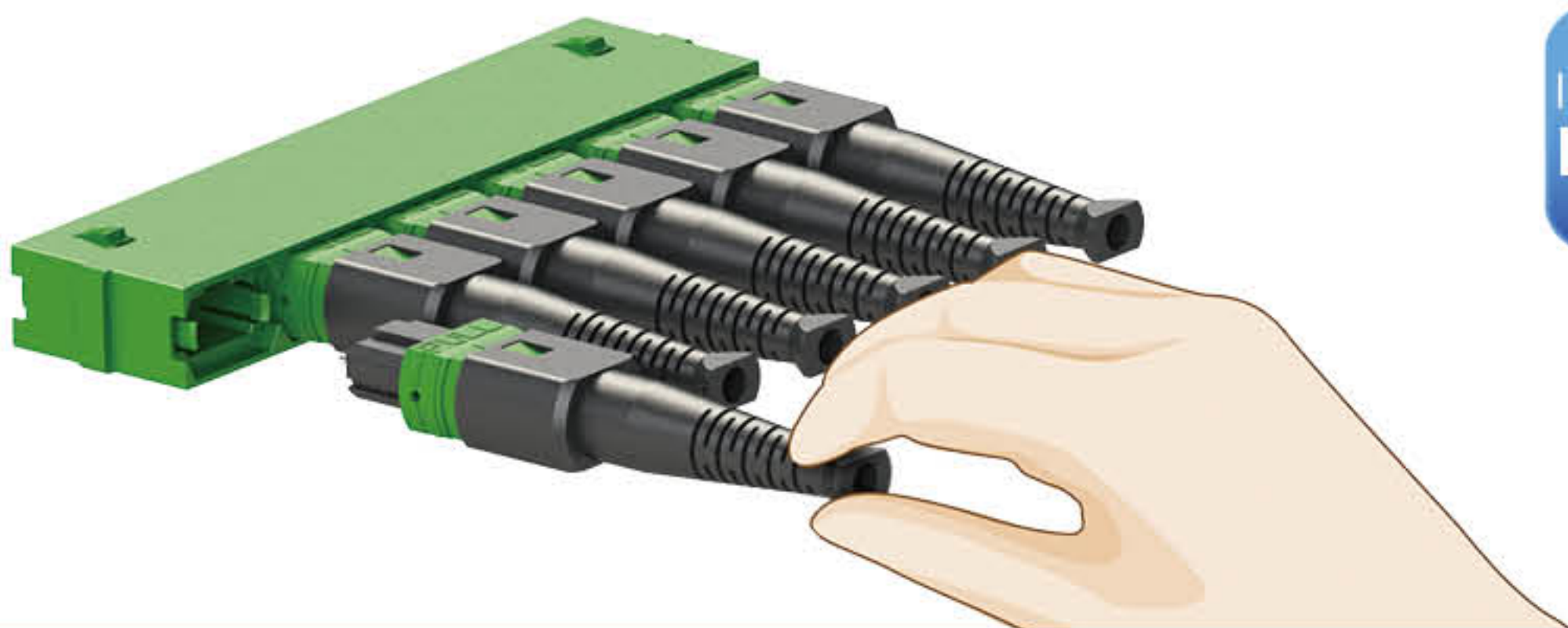
12/24 Fiber Center Key



16 Fiber Offset Key

Easy Push-Pull Boot

Just Grab the Robust Push-Pull boot for Effortless Insertion and Removal.



Description

The ACON OPTICS MPO EZ-Pull Connector is designed to maximize efficiency in high-density environments. Its innovative push-pull boot design eliminates the need for tabs, allowing quick and secure connections. With a streamlined profile and durable construction, it saves valuable space, making it the ideal solution for modern data centers.

Features

- Easy Push-Pull Boot: Quick connection without tabs.
- High-Density Design: Perfect for tight spaces.
- Enhanced Boot: Durable and reliable.

Applications

- Artificial Intelligence (AI)
- High-Performance Computing (HPC)
- Data Centers
- Telecommunications
- FTTx Deployments
- WDM Networks



Yellow (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Black (MM)

MPO EZ-Pull Connector Specification			
Assembling Type	Connector Type	Ferrule Mode	Cable Diameter(mm)
Multi Piece	MPO 12F Female Standard unassembled	SM/APC MM	3.0mm
	MPO 12F Female Low loss unassembled		
	MPO 12F Male Low loss unassembled		
	MPO 16F Female Standard unassembled		
	MPO 16F Male Standard unassembled		
	MPO 16F Female Low loss unassembled		
	MPO 16F Male Low loss unassembled		
	MPO 24F Female Standard unassembled		
	MPO 24F Male Standard unassembled		
	MPO 24F Female Low loss unassembled		
	MPO 24F Male Low loss unassembled		

MPO Connector

12/24/36F

● MPO Short Boot



● MPO Round 3mm



● MPO Bare Ribbon



● MPO Ribbon Boot



16/32F

● MPO Short Boot



● MPO Round 3mm



● MPO Bare Ribbon



● MPO Ribbon Boot



Description

ACON OPTICS' MT Ferrule low insertion loss of 0.35dB meets the IEC 61755-3-31 Grade B standard, making this the best quality and value for your common MT ferrule needs. It is available to support 800G, 1.6T and beyond parallel optics applications.

Features

- Meet IEC 61755-3-31 Grade B standard
- Low insertion loss, 0.35dB Max
- Trapezoid spring enhances mechanical performance
- Available to support 400G/800G/1.6T
- Various boots are available for MPO connectors

Applications

- Data center application
- Multi-channels high speed connectivity
- WDM networks
- Telecommunications



Yellow (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

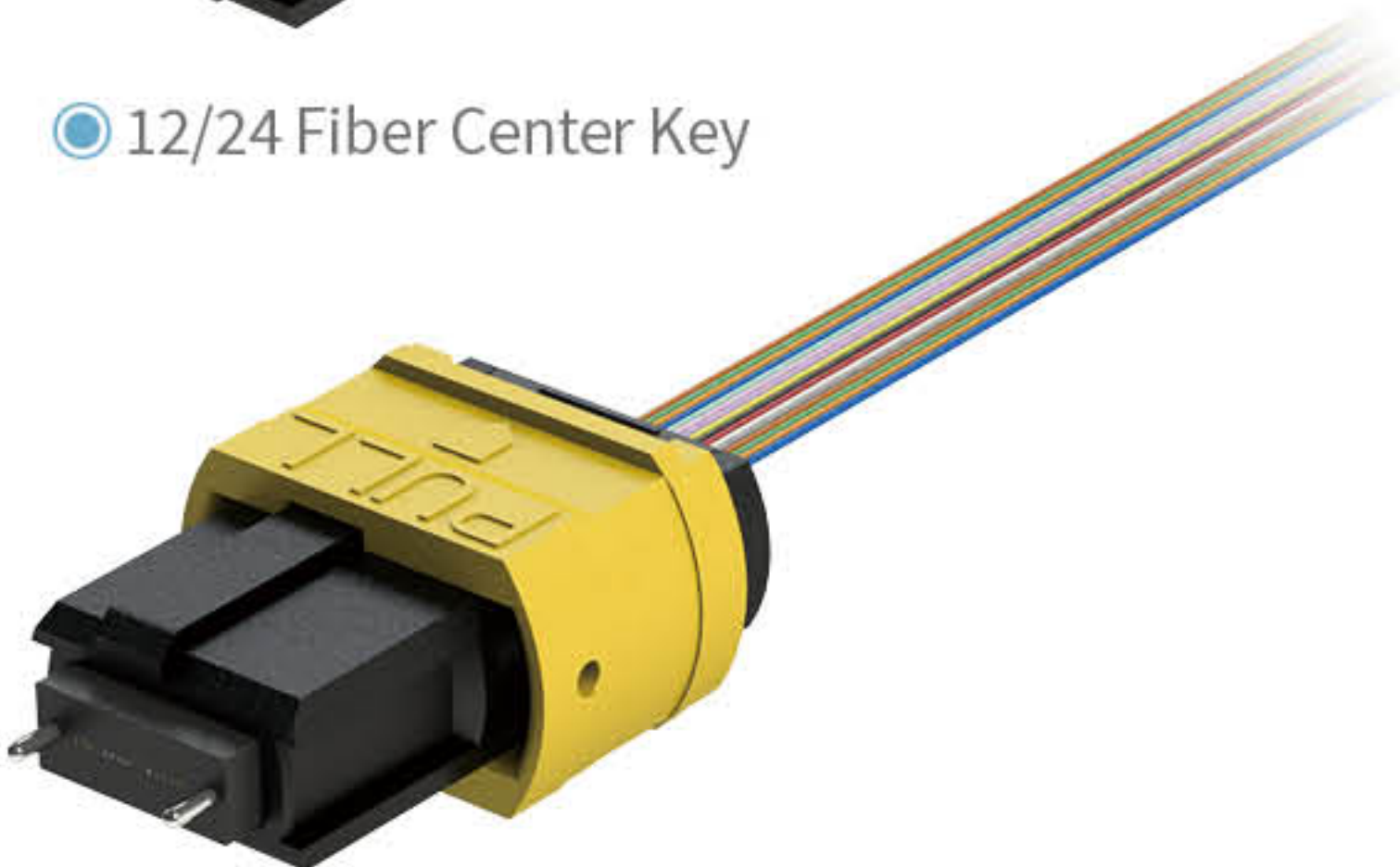
MPO Connector Specification

MPO Connector Specification				
Assembling Type	Connector Type	Other Requirement	Diameter (mm)	Connector length (Include Boot)
Multi Piece	12F, 24F, 36F 16F, 32F	Round Ribbon Bare Ribbon	2.0	33mm
			2.6	38mm
	3.0		43mm	
	3.5		57mm	
	2.5*5.0			

MPO Mini Connector



12/24 Fiber Center Key



16/32 Fiber Offset Key

70% Reduction in size



Yellow (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	

Description

The new MPO Mini Connector by ACON OPTICS delivers the performance of traditional MPO solutions in a dramatically reduced form factor—just 18mm in length compared to the conventional 60mm. Engineered for high-density environments, this ultra-compact connector enables greater space savings, making it ideal for behind-the-wall (BTW) applications and small-form cassettes in data-driven infrastructure.

Applications

- Artificial Intelligence (AI)
- High-Performance Computing (HPC)
- Data Centers
- Telecommunications
- FTTx Deployments
- WDM Networks

Features

- World’s most compact BTW MPO connector—only 18mm total length for ribbon fiber
- Supports 12/24 fiber center key and 16/32 fiber offset key options
- 18mm compact length supports improved space efficiency in back panels and small cassettes
- Ideal solution for high-density, space-constrained environments

MPO Mini Connector Specification		
Assembling Type	Connector Type	Diameter (mm)
Multi Piece	MPO 12F Female Low loss unassembled	0.25
	MPO 12F Male Low loss unassembled	
	MPO 16F Female Low loss unassembled	
	MPO 16F Male Low loss unassembled	
	MPO 24F Female Low loss unassembled	
	MPO 24F Male Low loss unassembled	

LC / SC Field Installable Connector

Features

- Cable : 3.0*2.0mm, 2.0*1.6mm Drop Cable, Φ 3.0mm, Φ 2.0mm, Φ 0.9mm Round Cable
- Fiber : SM/ G657 Bending Insensitive; MM/ OM3, OM4
- Factory-installed fiber stub, no epoxy and polishing required, inside with index-matching gel
- Operating Temperature: -25°C~+75°C

Type A - LC (APC/PC)



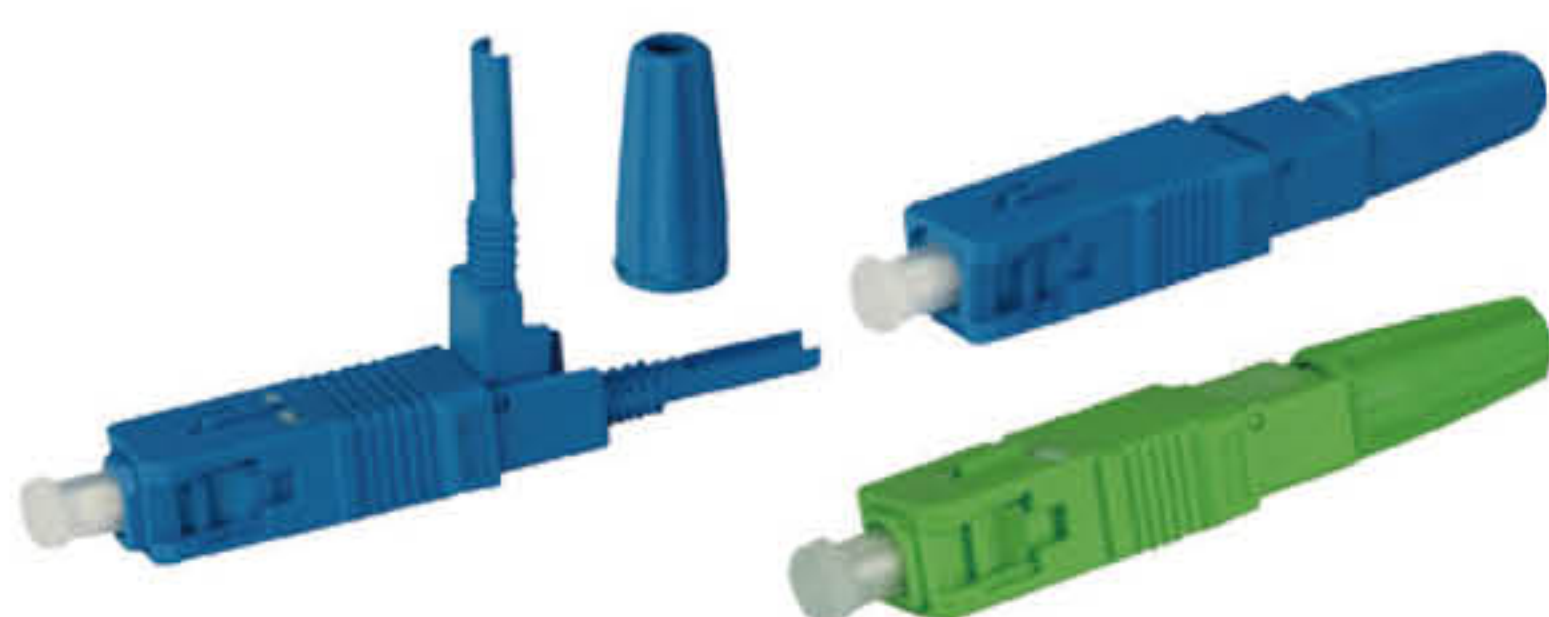
Type A - SC (APC/PC)



Type A LC / SC Field Installable Performance

Item	Parameter	Item	Parameter
Insertion Loss	AVG $\leq$ 0.3 dB, MAX $\leq$ 0.5 dB	Return Loss	SM : UPC $\geq$ 45 dB, APC $\geq$ 50 dB MM : UPC $\geq$ 25 dB
Tensile Strength	$\geq$ 30N (Φ 0.9mm Round Cable $\geq$ 5N)	Mechanical Endurance	500 Times
Repeat Assembly	$\geq$ 3 Times	Assembly Time	Drop Cable $\leq$ 2 mins Round Cable $\leq$ 4 mins

Type B - SC (APC/PC)



Type C - SC (APC/PC)



Features

- Apply to drop cable or indoor cable
- Economical in both design and termination process
- Precision snap-in connector design
- Reduce assembly time and simplify training
- Stable performance
- Insertion Loss AVG $\leq$ 0.3 dB, MAX $\leq$ 0.5 dB
- Operating Temperature -40°C~85°C
- Tensile Strength >50 N

Applications

- FTTH & FTTx deployment

Type B & C SC Field Installable Specification

	Diameter (mm)	Type	Mode	Coupling Color	Boot Color
Type B - SC	3.0 x 2.0, 2.0 x 1.6 Drop Cable, 3.0, 2.0, 0.9 Round Cable	Simplex	SM	Blue Green	Blue Green
Type C - SC	3.0 x 2.0 Drop Cable 2.0 x 1.6 Drop Cable				