

OPTICAL INTERCONNECT SOLUTION

Powering AI Through
Optical Connectivity



HIGH DENSITY
Space-saving design
for maximum density



HIGH PERFORMANCE
Low insertion loss
for reliable transmission



SCALABILITY
Ready for 800G, 1.6T
and beyond



RELIABILITY
Tested for AI-grade
performance



Powering AI Through Optical Connectivity

ACON OPTICS Communications Inc. (TWSE: 6820) is a leading provider of advanced optical connectivity solutions, delivering precision-engineered technologies for AI infrastructure and next-generation communication networks.

Backed by decades of expertise in optical communication R&D and manufacturing, ACON OPTICS develops innovative solutions across **CPO Connectivity, AI Data Center, High-Speed Interconnect, Automotive Optical, FTTA/FTTH, and Aerospace & Defense** applications.

Our comprehensive portfolio empowers customers to build faster, smarter, and more scalable AI infrastructure through high-performance optical connectivity solutions.

Driven by innovation, engineering excellence, and precision manufacturing, ACON OPTICS is committed to advancing optical connectivity and powering the future of AI.



What We Enable

Delivering advanced optical connectivity solutions across AI, communications, mobility, and mission-critical applications.



2017
Founded



TWSE:6820
Listed Company



350+
Employees



Global
Manufacturing &
Support



Decades of
Optical Expertise



Trusted by
Global Technology
Leaders

WHY ACON OPTICS

Engineering Excellence Behind

Every Optical Connection

ACON OPTICS combines precision engineering, advanced manufacturing, and innovation to deliver reliable, high-performance optical connectivity solutions that power the AI era.



Precision Engineering

Sub-micron precision design and alignment ensure superior optical performance and high-density integration for advanced applications.



Advanced Manufacturing

State-of-the-art automated production and process control guarantee consistent quality, scalability, and cost efficiency.



Innovation

Continuous investment in R&D and strategic partnerships drive next-generation optical technologies for AI, CPO, and beyond.



Customization

Flexible OEM/ODM capabilities and engineering expertise deliver tailored solutions to meet unique customer requirements.



Global Support

Worldwide sales, engineering, and technical support ensure responsive service and close collaboration with customers globally.



Quality & Reliability

Certified quality management system and rigorous validation ensures reliable performance in the most demanding environments.

Our Journey Of Growth

1986



ACON Founded
Established the foundation for connectivity solutions.

2001



Optical Communication R&D Begins
Invested in optical technology research and development.

2007



LC Licensed Manufacturer
Became licensed manufacturer for LC connector.

2017



ACON OPTICS Established
Focus on advanced optical connectivity solutions for global markets.

Today



AI Optical Connectivity Leader
Empowering the future with precision, innovation, and reliability.

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AI DATA CENTER CONNECTIVITY SOLUTIONS

Enabling scalable, high-density optical connectivity from structured cabling to next-generation AI infrastructure.

01

INFRASTRUCTURE LAYER

Backbone Cabling
for Data Center

02

SWITCH LAYER

High-density cabling
between switches

03

SERVER LAYER

High-speed interconnect
to AI servers and devices

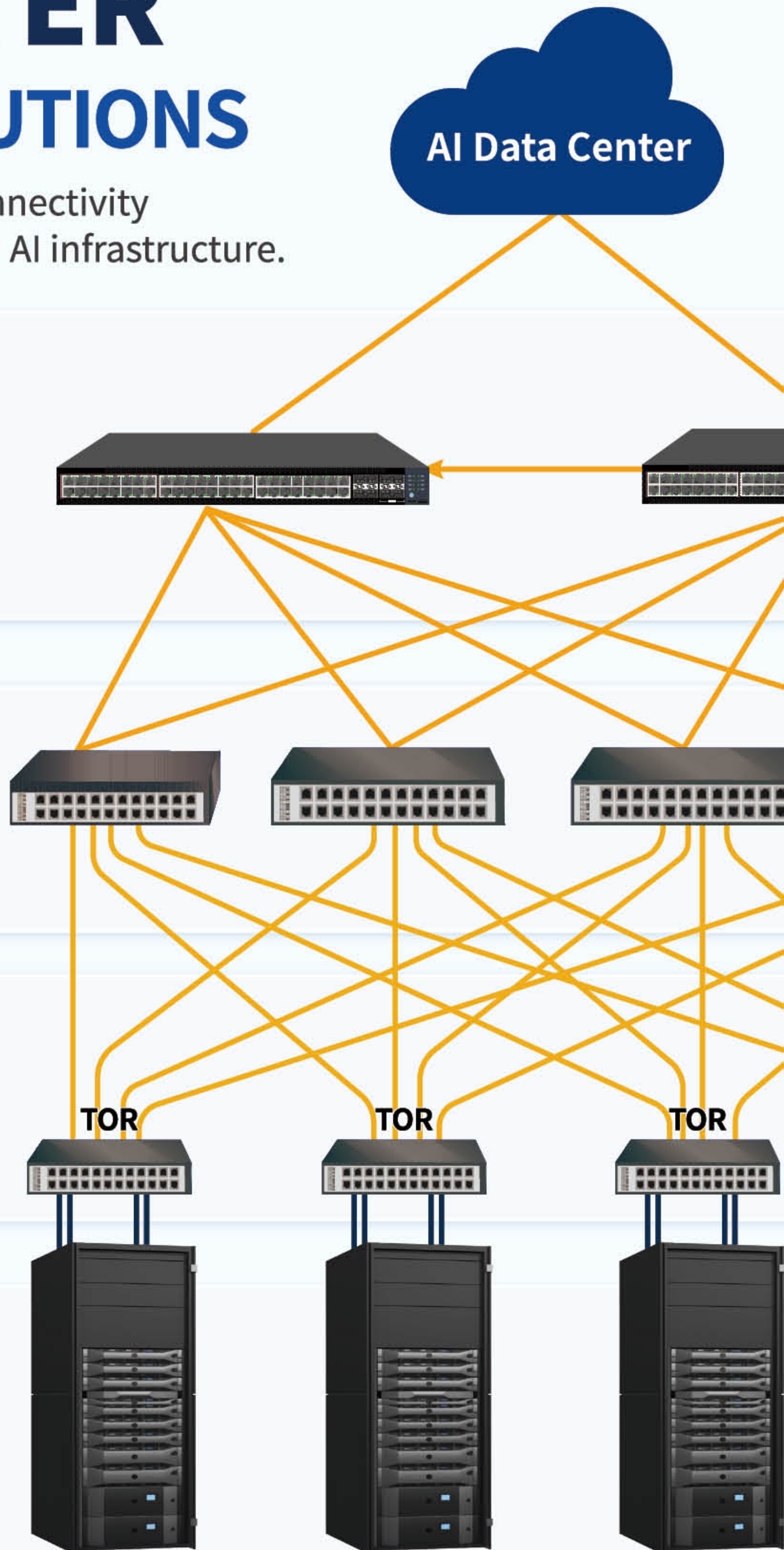
Core /
Spine Switch

Leaf Switch

TOR
(Top of rack)
Switches

AI Server /
Storage
GPU Cluster

AI Data Center



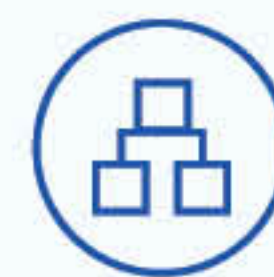
HIGH DENSITY

Space-saving design
for maximum density



HIGH PERFORMANCE

Low insertion loss
for reliable transmission

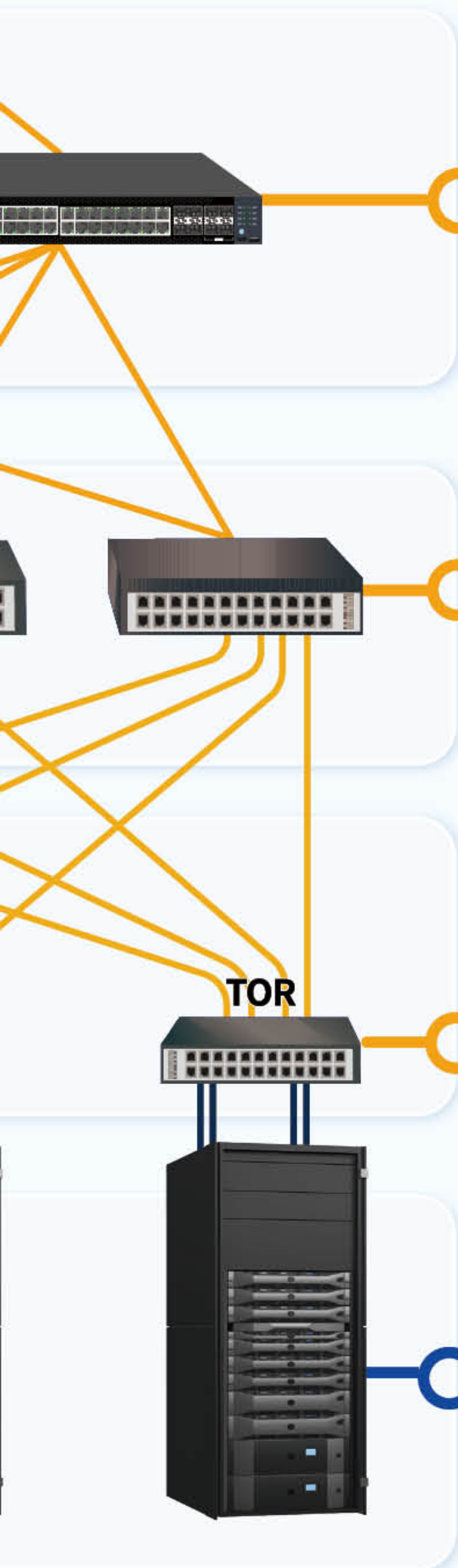


SCALABILITY

Ready for 800G, 1.6T
and beyond

Note: **Orange** lines represent optical(fiber) connectivity. **Dark blue** lines represent copper connectivity.

— Optical (fiber)
— Copper



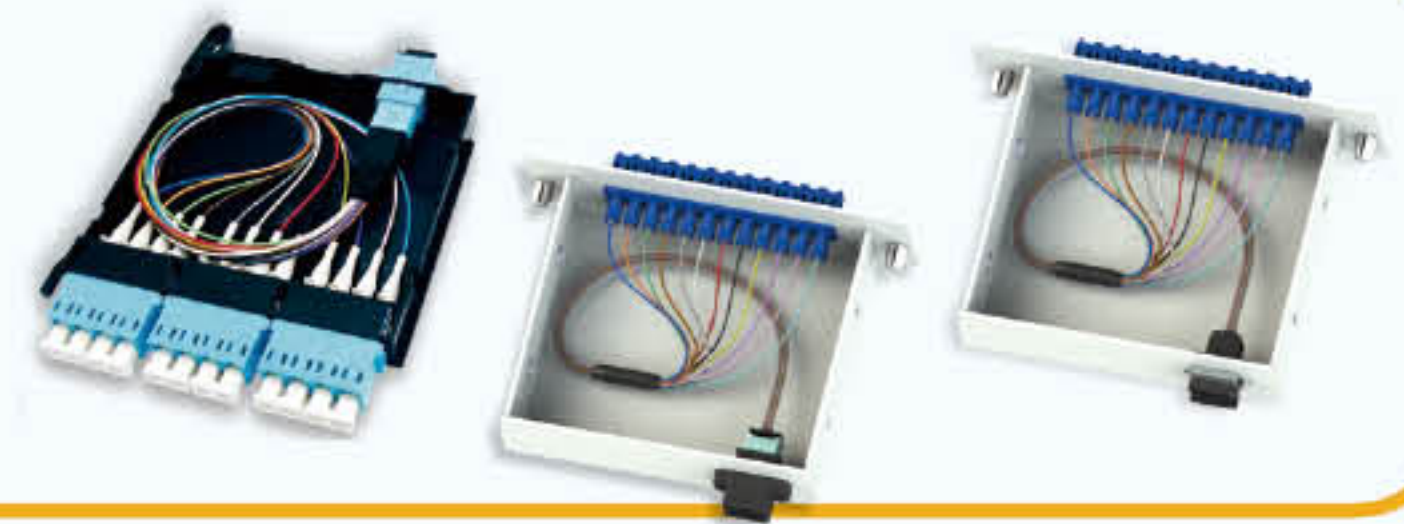
01 TRUNK CABLE

High fiber count trunk cable for backbone cabling



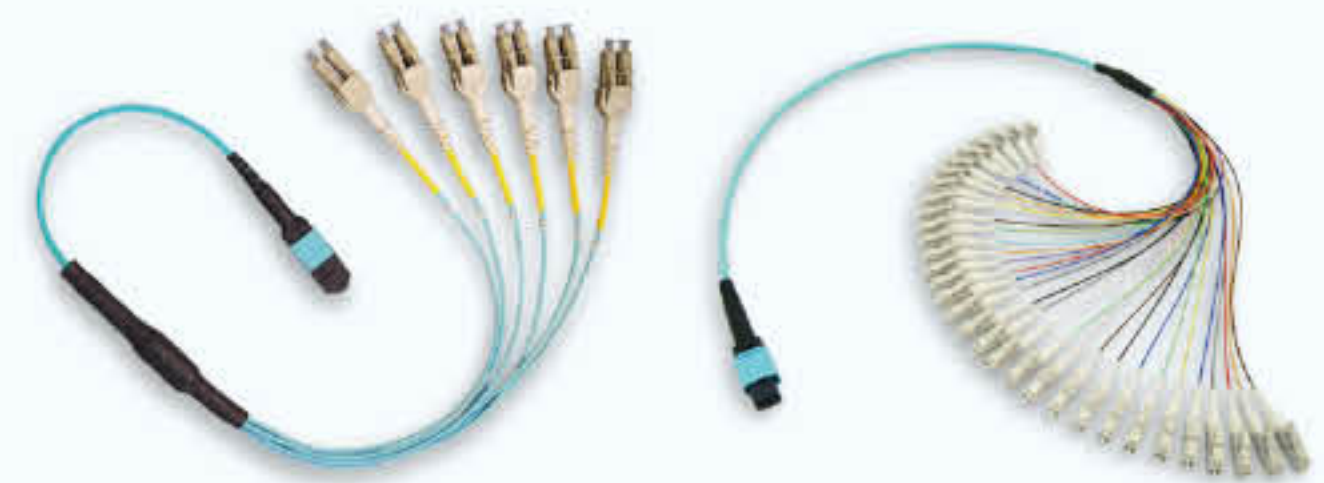
02 HIGH DENSITY PANEL CASSETTE

Modular panel cassette for high-density cable management



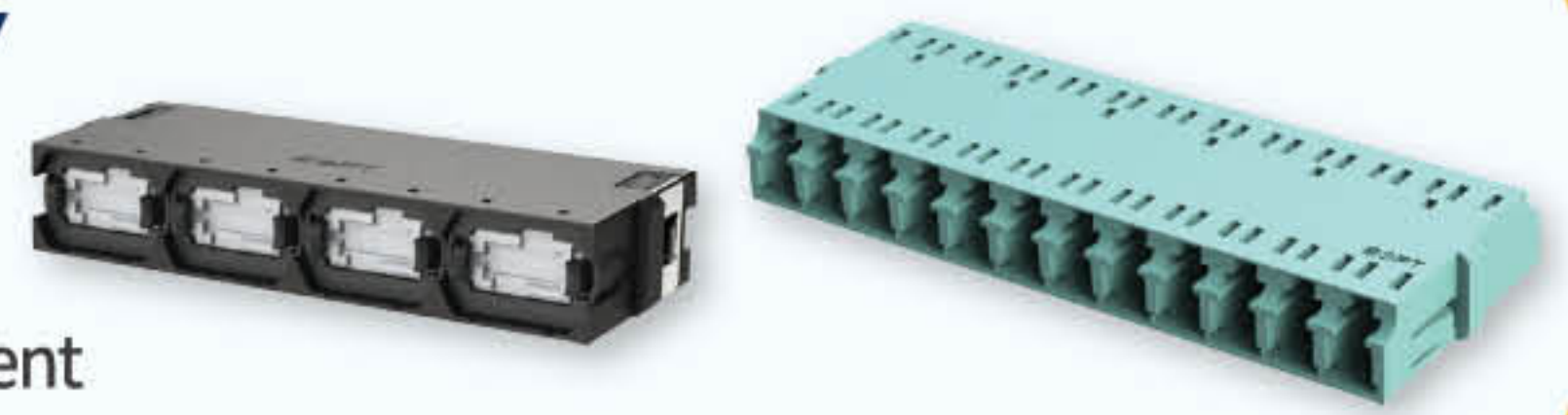
03 HIGH DENSITY PATCHCORD

MPO/MTP patchcord and breakout cable assemblies



04 HIGH DENSITY ADAPTER

MPO/LC adapters for flexible deployment



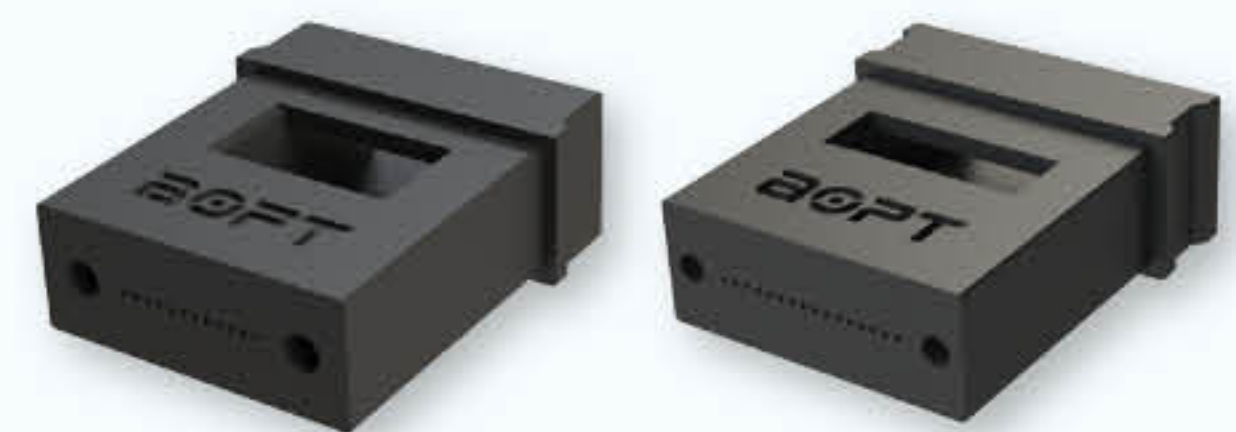
05 HIGH DENSITY CONNECTOR

MPO/LC EZ-Pull connectors for flexible deployment



06 MT FERRULE SERIES

High precision MT ferrule for high-density connections



07 TRANSCEIVER / AOC

High-speed optical solutions for AI switches



08 AEC / ACC / DAC

High-speed copper solutions for AI servers

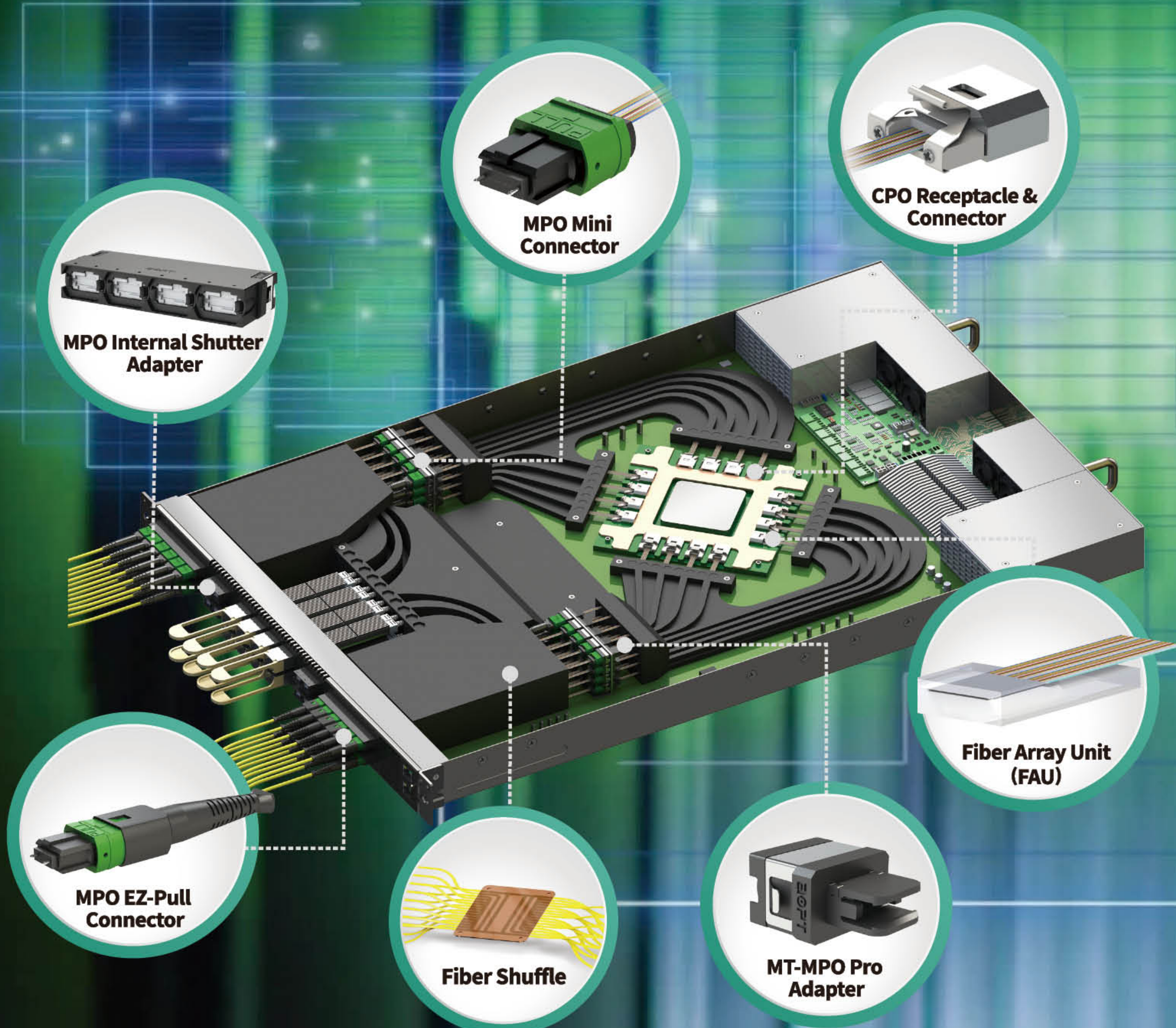


RELIABILITY
Tested for AI-grade performance

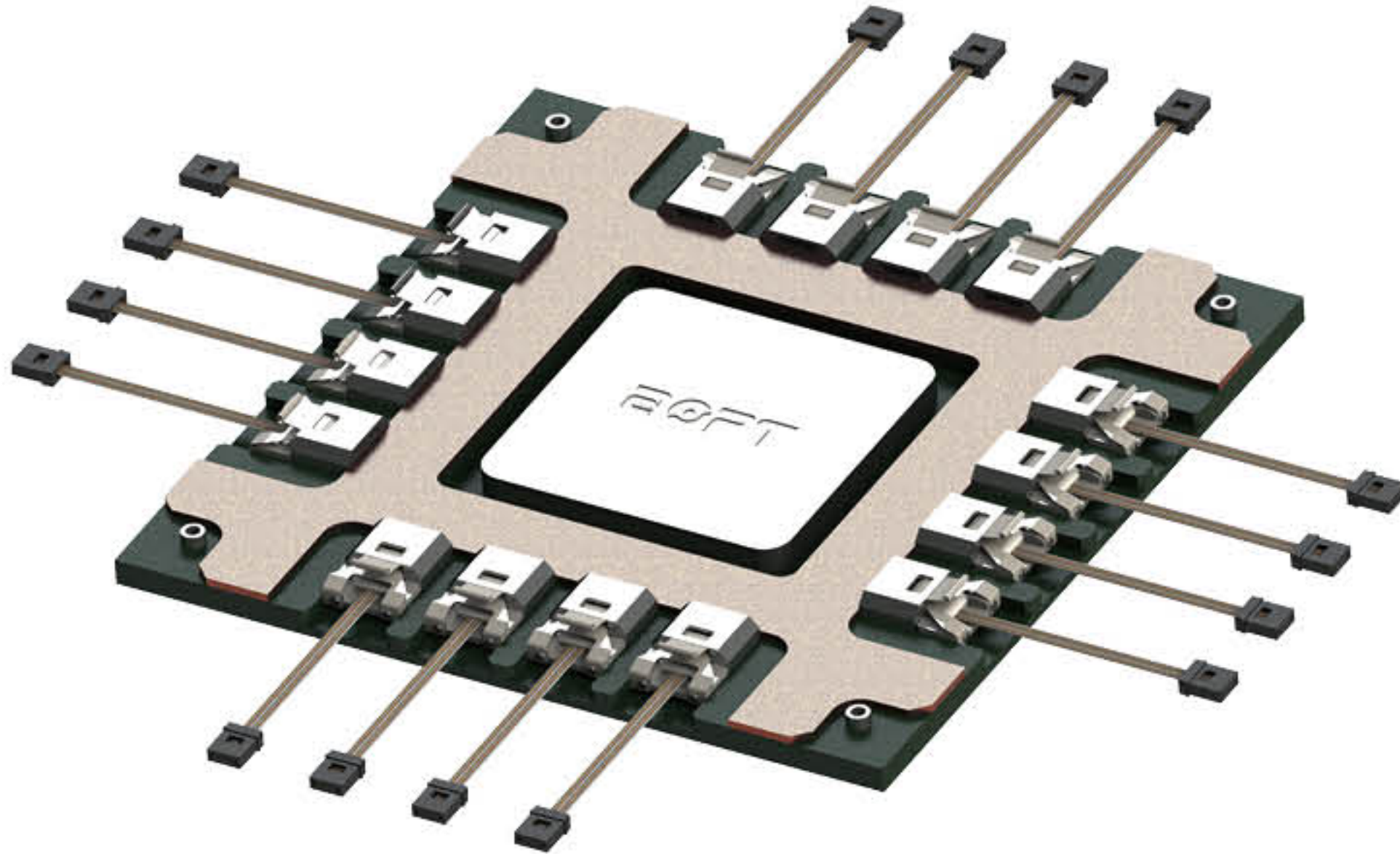
CPO Connectivity Solutions

Precision Optical Connectivity for AI-Scale CPO Architectures

ACON OPTICS delivers comprehensive CPO connectivity solutions designed to enable high-density, high-bandwidth optical integration for next-generation AI data center infrastructures. From chip-level Grating and Edge Coupling interfaces to high-density Fiber Array Units and precision FA-MT interconnects, our platform ensures sub-micron alignment accuracy, low-loss optical performance, and scalable system integration across advanced CPO architectures.



CPO GC Solution



Description

ACON OPTICS delivers high-density Grating Coupling (GC) solutions with micron-level precision, enabling reliable and scalable optical connectivity for next-generation AI infrastructure. Designed for high-bandwidth CPO systems, our GC solutions feature optimized optical paths and modular architectures for precise fiber-to-chip alignment.

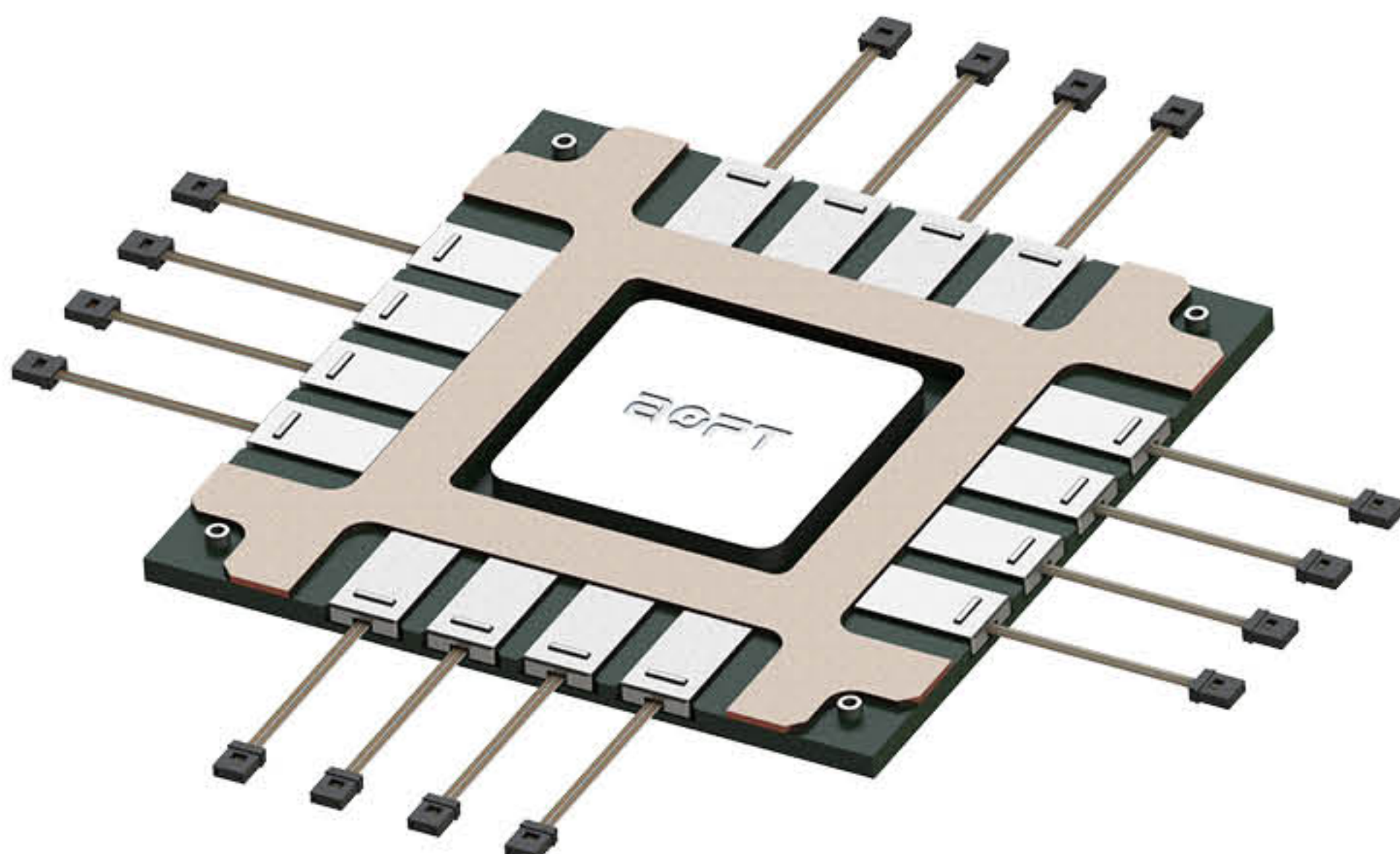
Features

- Micron-level alignment precision
- Detachable modular design
- Optimized grating optical interface
- Stable coupling performance
- AI-scale reliability

Key Specifications

- Fiber count: 80+
- FAU core pitch accuracy: $\leq 0.5 \mu\text{m}$
- CPO receptacle critical accuracy : $\leq 0.5 \mu\text{m}$
- Guide hole accuracy: $\leq 0.5 \mu\text{m}$
- SM fiber OD & concentricity: $\leq 0.1 \mu\text{m}$

CPO EC Solution



Description

ACON OPTICS delivers high-precision Edge Coupling (EC) solutions designed for high-density CPO architectures. Featuring micron-level alignment and low-loss optical interfaces, our detachable modular design ensures reliable and scalable connectivity for AI-scale systems.

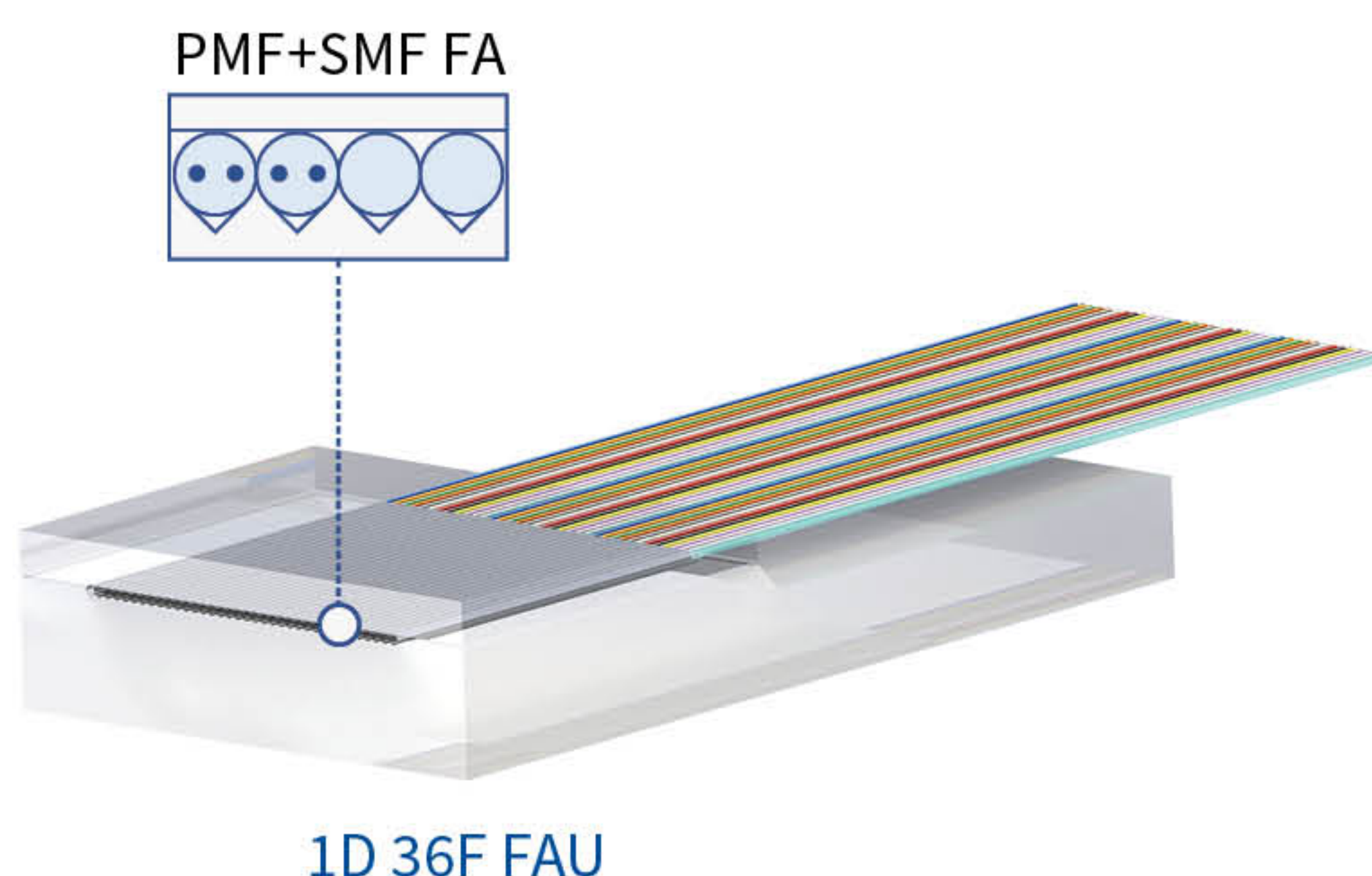
Features

- Micron-level precision
- Detachable modular design
- Optimized optical paths
- Advanced tolerance control
- AI-scale reliability

Key Specifications

- Fiber count: 40+
- FAU v-groove accuracy: $\leq 0.5 \mu\text{m}$
- CPO receptacle critical accuracy : $\leq 0.5 \mu\text{m}$
- Guide hole accuracy: $\leq 0.5 \mu\text{m}$
- SM fiber OD & concentricity: $\leq 0.1 \mu\text{m}$

1D Fiber Array Unit (FAU)



Description

ACON OPTICS delivers high-density Fiber Array Units (FAU) engineered for advanced CPO architectures. Featuring sub-micron pitch accuracy and automated fiber alignment, our FAU solutions enable low-loss coupling and ultra-compact integration for AI-scale optical interconnect systems.

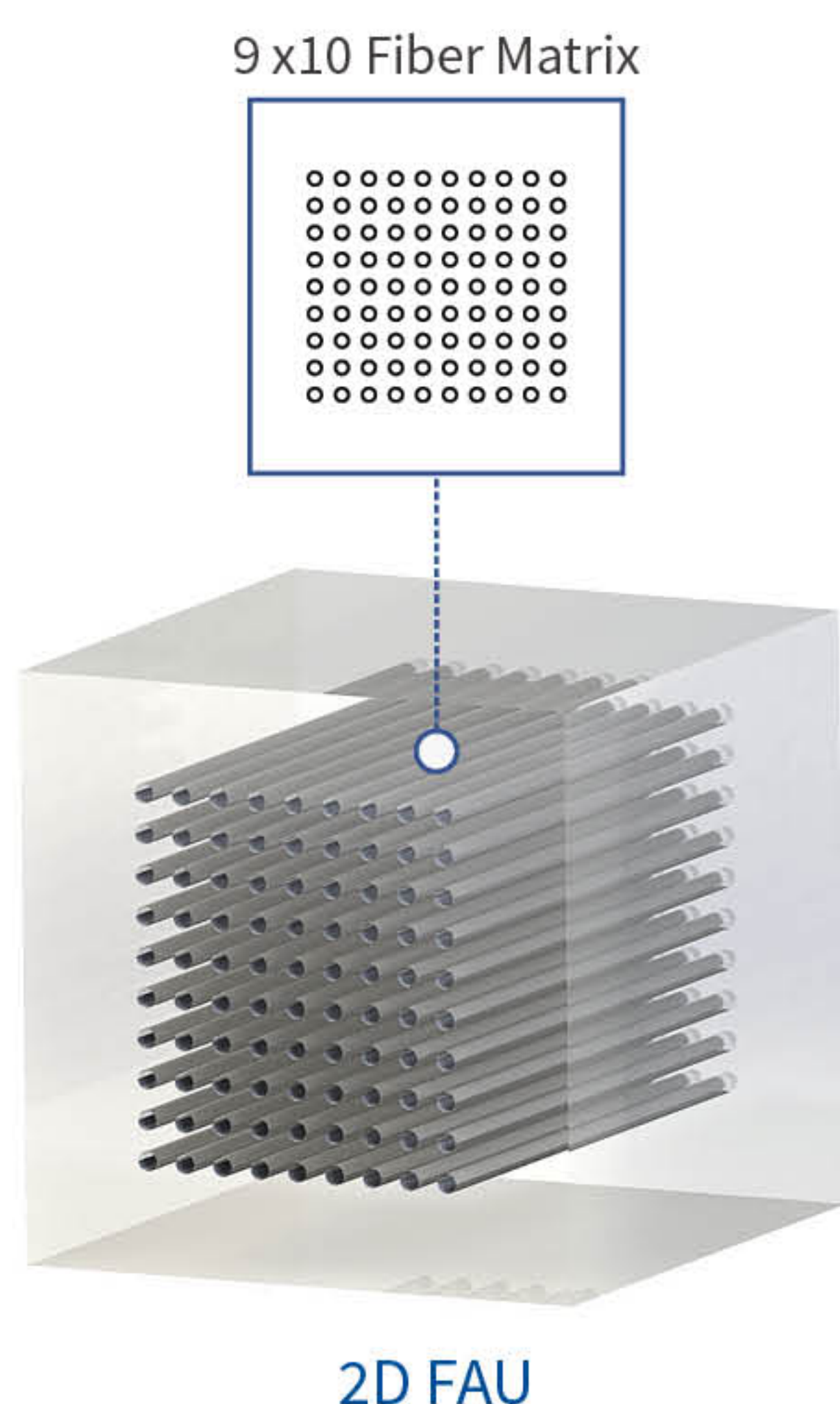
Features

- 1D & 2D high-density fiber arrays
- Sub-micron pitch accuracy
- Automated PM fiber alignment
- Minimal insertion loss

1D Fiber Array Unit (FAU) Specifications

Parameter	Specification
Fiber Count	100+
Material	BF33 / JGS2
Core Pitch	127 μm or 250 μm
Core Pitch Tolerance	$\pm 0.5 \mu\text{m}$
Polish Angle	0° or 8°
Thickness	1 – 5 mm

2D Fiber Array Unit (FAU)



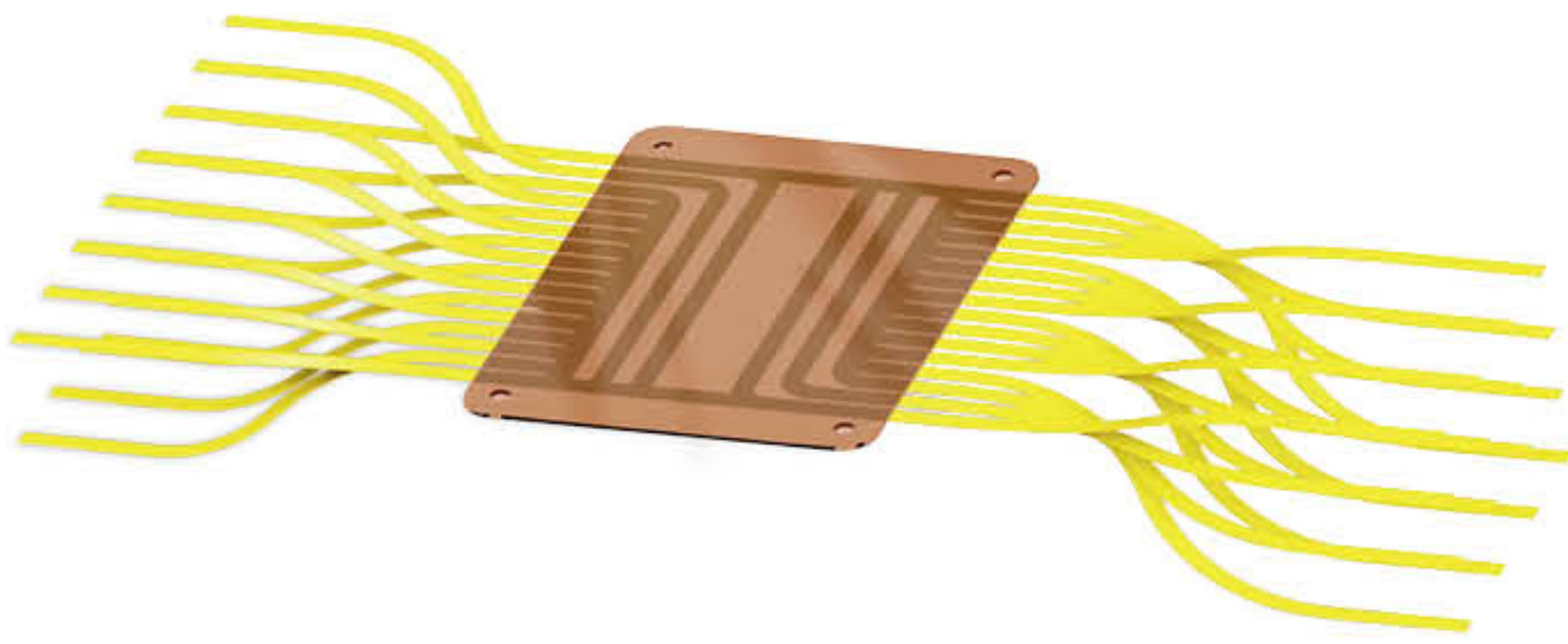
Features

- 1D & 2D high-density fiber arrays
- Sub-micron pitch accuracy
- Automated PM fiber alignment
- Minimal insertion loss

2D Fiber Array Unit (FAU) Specifications:

Parameter	Specification
Fiber Count	2000+
Material	BF33 / JGS2
Core Pitch	127 μm , 165 μm , or 250 μm
Core Pitch Tolerance	$\pm 0.5 \mu\text{m}$
Fiber Hole Angle	0° – 15°
Fiber Hole Angle Tolerance	$\pm 0.2^\circ$
Thickness	1 – 5 mm
Fiber Hole Diameter	80 μm or 125 μm
Fiber Hole Diameter Tolerance	$\pm 0.5 \mu\text{m}$

Fiber Shuffle



Description

The ACON OPTICS Fiber Shuffle is a Flexible Optical Backplane designed for AI data centers, Co-Packaged Optics (CPO), and high-performance computing (HPC) systems. Built on an ultra-thin flexible substrate, it enables precise, high-density fiber routing within a compact footprint, reducing cable congestion, improving airflow, and simplifying next-generation optical interconnections.

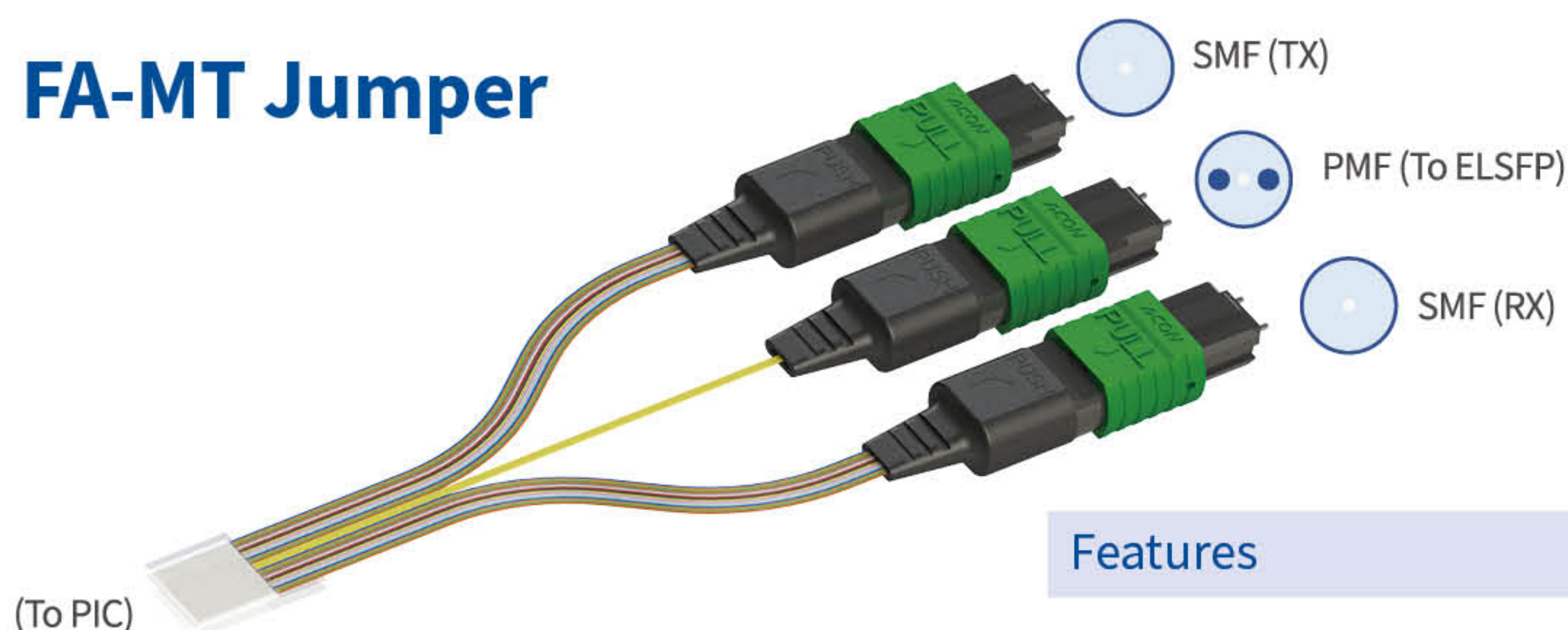
Features

- Ultra-Thin Flexible Design for optimized routing space
- High-Density Fiber Management with customizable routing architecture
- Low Insertion Loss (≤ 0.35 dB) for reliable optical performance
- Minimum Bend Radius ≥ 5 mm to minimize optical loss
- Reduce Fiber Congestion for simplified cable management
- Optimize Airflow & Rack Space for enhanced thermal management
- Compatible with MT Ferrules, MPO/MTP & Fiber Arrays
- Blind-Mate Ready for fast system integration

Applications

- AI Data Centers
- Co-Packaged Optics (CPO)
- High-Performance Computing (HPC)
- Optical Circuit Switches (OCS)
- Optical Backplanes
- Telecommunications Networks

FA-MT Jumper



Description

ACON OPTICS delivers high-precision FA-MT jumpers engineered to connect chip-level fiber arrays with system-level optical interfaces. Featuring sub-micron alignment accuracy and low-loss optical performance, enabling reliable, high-bandwidth signal transmission across advanced CPO and AI-scale data center architectures

Features

- Fiber count: 40+
- Low-loss MPO interface (≤ 0.35 db)
- Sub-micron alignment accuracy
- SMF / PMF compatibility
- Robust pluggable design
- Simplified maintenance

Applications

- AI Data Centers
- Co-Packaged Optics (CPO) Systems
- Silicon Photonics Interconnects
- High-Performance Computing (HPC)



High-Speed Interconnect Solutions

Transceivers

Transceivers..... 13

AOC

AOC 14

AEC / ACC / DAC

AEC / ACC / DAC 15

Transceiver

1.6T

1.6T OSFP DR8



1.6T OSFP 2xFR4



Description

The surge of AI and data-intensive workloads demands ultra-fast, energy-efficient connectivity. ACON OPTICS' 1.6T, 800G, and 400G optical transceiver series are engineered to meet the rigorous bandwidth and performance requirements of next-generation data centers. Leveraging 200G/lane silicon photonics and cutting-edge PAM4 technology, our 1.6T OSFP DR8 modules—available in both Retimer and LPO versions—deliver exceptional performance with low power consumption and up to 500 meters reach over single-mode fiber. Discover the future of high-speed interconnects, purpose-built for AI and cloud scale.

Features

- 1.6T high-speed optical module products use 200G/lane silicon photonic chips
- Both electrical and optical interfaces support 8x200 Gbit/s PAM4
- Up to 500m transmission with 1310nm wavelength
- Power consumption < 10W

Applications

- AI Data Centers
- 1.6T Ethernet

800G

800G OSFP VR8



800G OSFP 2xDR4 LPO(Siph)



800G OSFP DR8


400G

400G QSFP-DD DR4



400G QSFP-DD FR4



400G QSFP-DD ZR+



AOC

800G

800G OSFP AOC


400G

400G QSFP-DD AOC


 400G QSFP-DD to
4x100G QSFP56 AOC

200G

200G QSFP56 AOC


100G

100G QSFP28 AOC



Description

ACON OPTICS offers a full range of high-performance Active Optical Cables (AOCs) including 800G, 400G, 200G, and 100G solutions, purpose-built for AI, cloud, and next-generation data center environments. These hot-pluggable, low-power AOCs deliver reliable, high-speed connectivity over multimode fiber—supporting up to 100 meters reach and optimized for modern networking demands.

Features

- 8-channel active optical cable
- 53.125GBd PAM4 ×8 channel
- 800G AUI-8 C2M Electrical interface
- Cable length available up to 100m on OM4 MMF 850nm VCSEL and PIN receiver
- OSFP MSA package
- Hot pluggable
- Very low EMI and excellent ESD protection
- +3.3V power supply
- Power consumption less than 15.5W
- Operating case temperature: 0~+70°C
- IIC rate up to 1MH

Applications

- 800G Ethernet
- Data center switch
- InfiniBand NDR

AEC / ACC / DAC

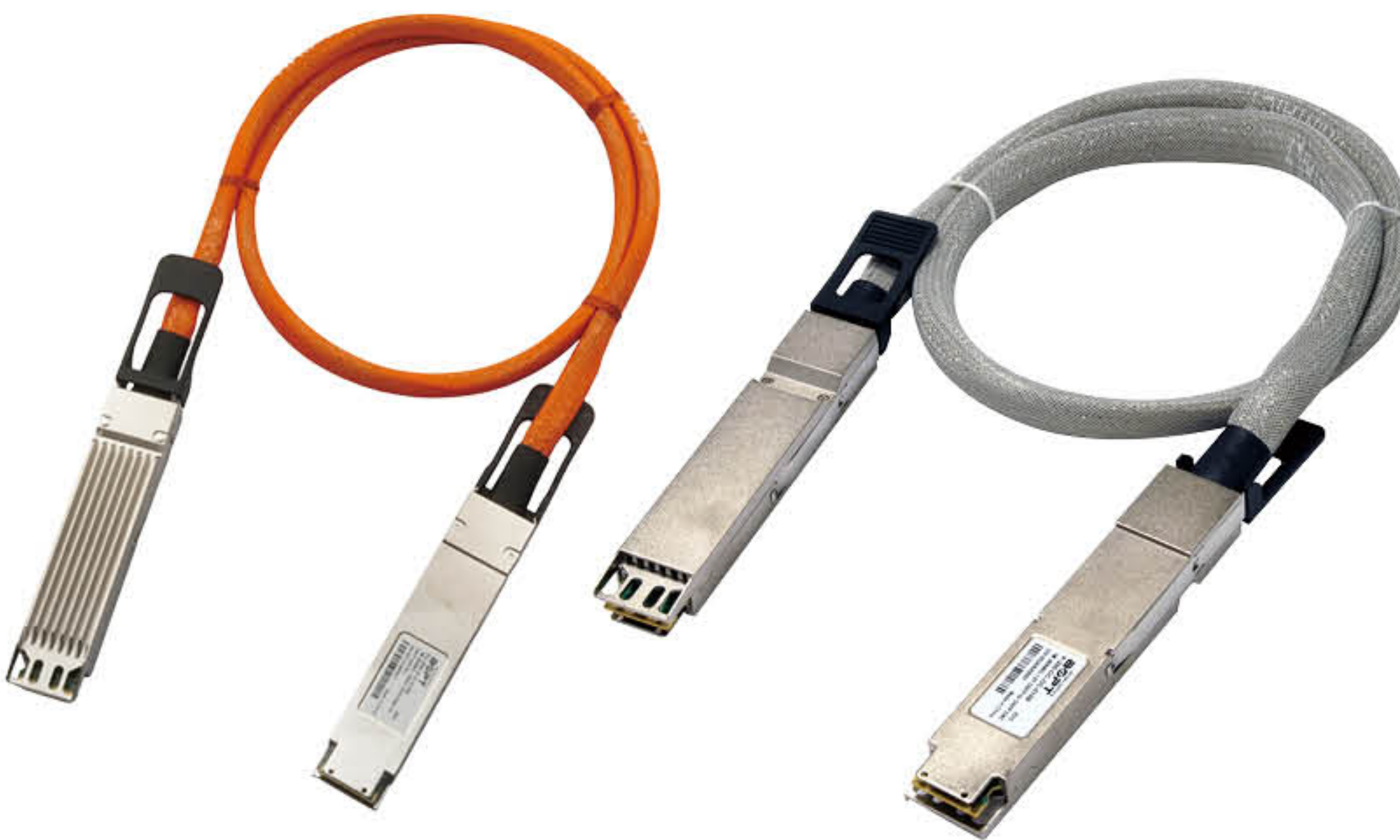
1.6T

1.6T OSFP AEC



1.6T OSFP ACC

1.6T OSFP DAC



Description

ACON OPTICS offers a complete portfolio of high-speed cable interconnect solutions—including AEC, ACC, and DAC—designed for AI-centric and cloud-scale data center infrastructure. With support for next-generation transmission rates and low-latency performance, these solutions enable reliable, high-efficiency connections across servers, switches, and storage systems. Optimized for scalability and energy-conscious operations, they help power the future of intelligent networks.

Features

- 8-lane active transceiver that supports Data Rate 1600Gbps
- 8 × 212.5 Gb/s Tx + 8x, 212.5Gb/s Rx parallel channels
- Up to 3.0meter reach, PAM4 encoding
- Power consumption <20W(per cable end)
- Pre-FEC bit error rate (BER) better than E-8
- Single +3.3V power supply, Built-in DSP functions
- Hot Pluggable OSFP Finned-top form factor, OSFP MSA compliant
- I2C management per CMIS 5.0 compliant
- Commercial operating case temperature 0°C to +70°C
- RoHS 6 compliant (lead free)
- Orange PET woven net, All metal housing
- Compliant with CMIS 5.x, OSFP MSA, IEEE 802.3dj

Applications

- Data centers (Servers, Switches, Storages)

800G

800G OSFP AEC

800G QSFP-DD AEC



400G

400G QSFP112 AEC



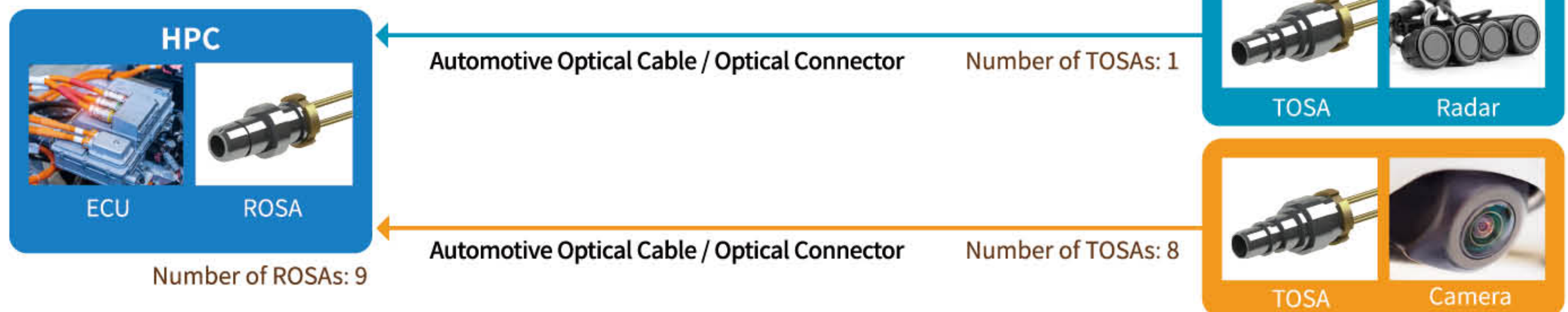
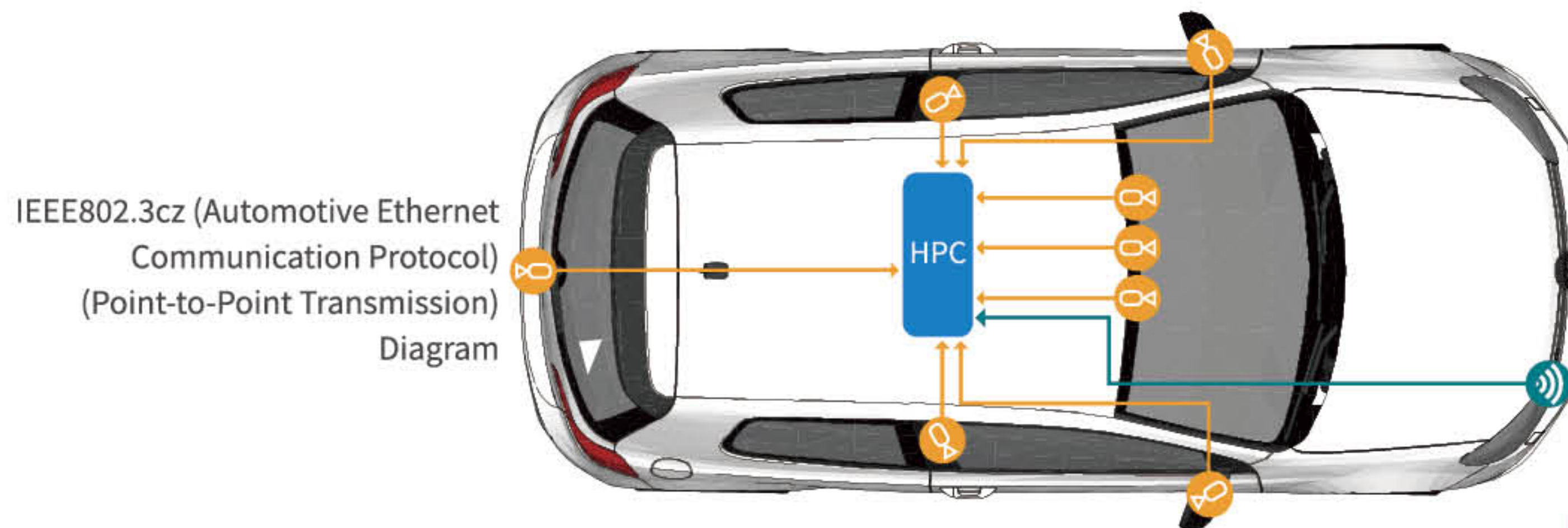


Automotive Optical Solution

Automotive Optical Solution	17
Automotive Camera Optical VCFA 01 Cable	17
Automotive Sensor Optical VCFA P1 Cable	17

Automotive Optical Solution

High-Speed Optical, Next-Gen Vehicles Accelerating Automotive Sensors & ADAS Performance

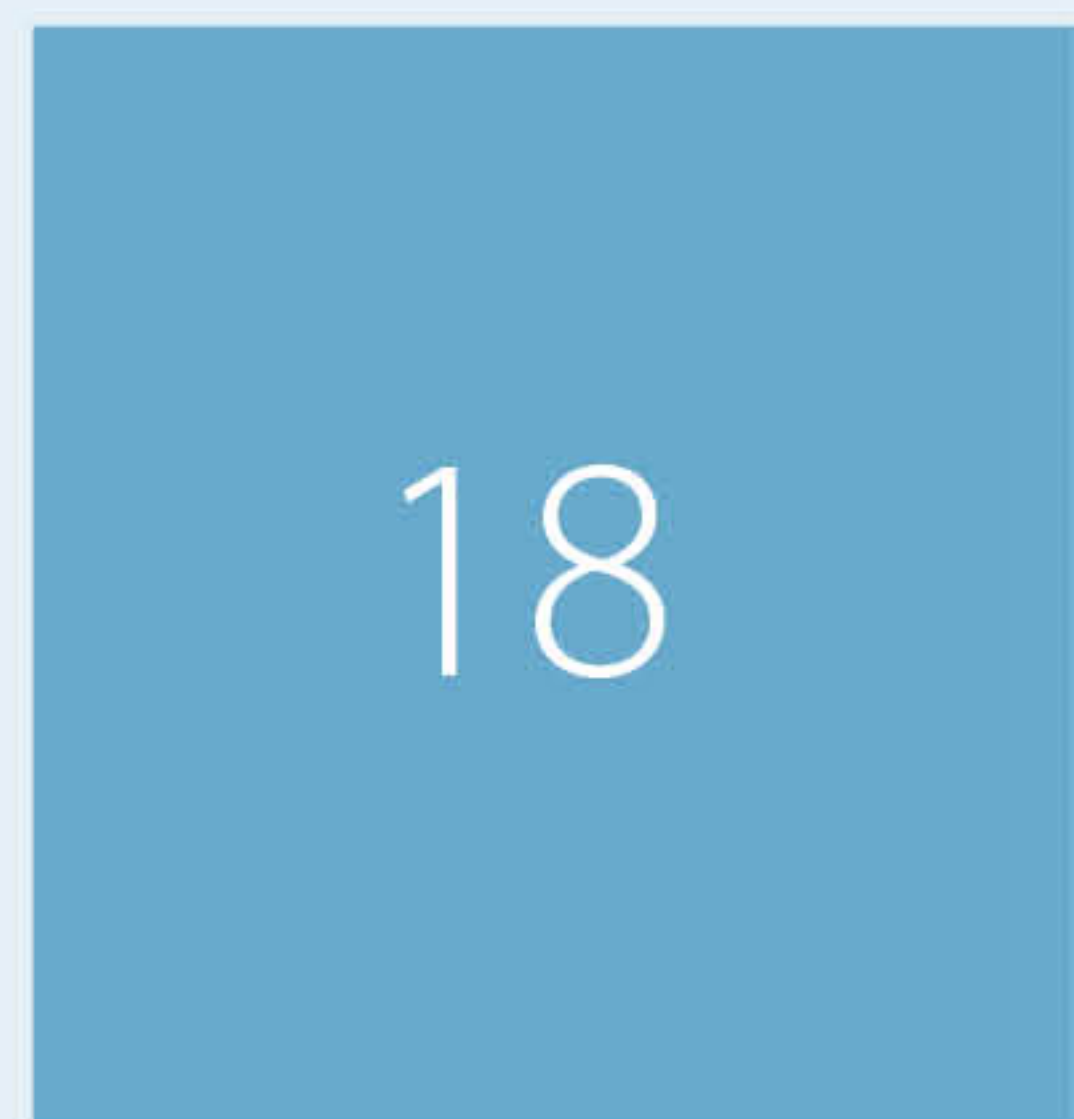
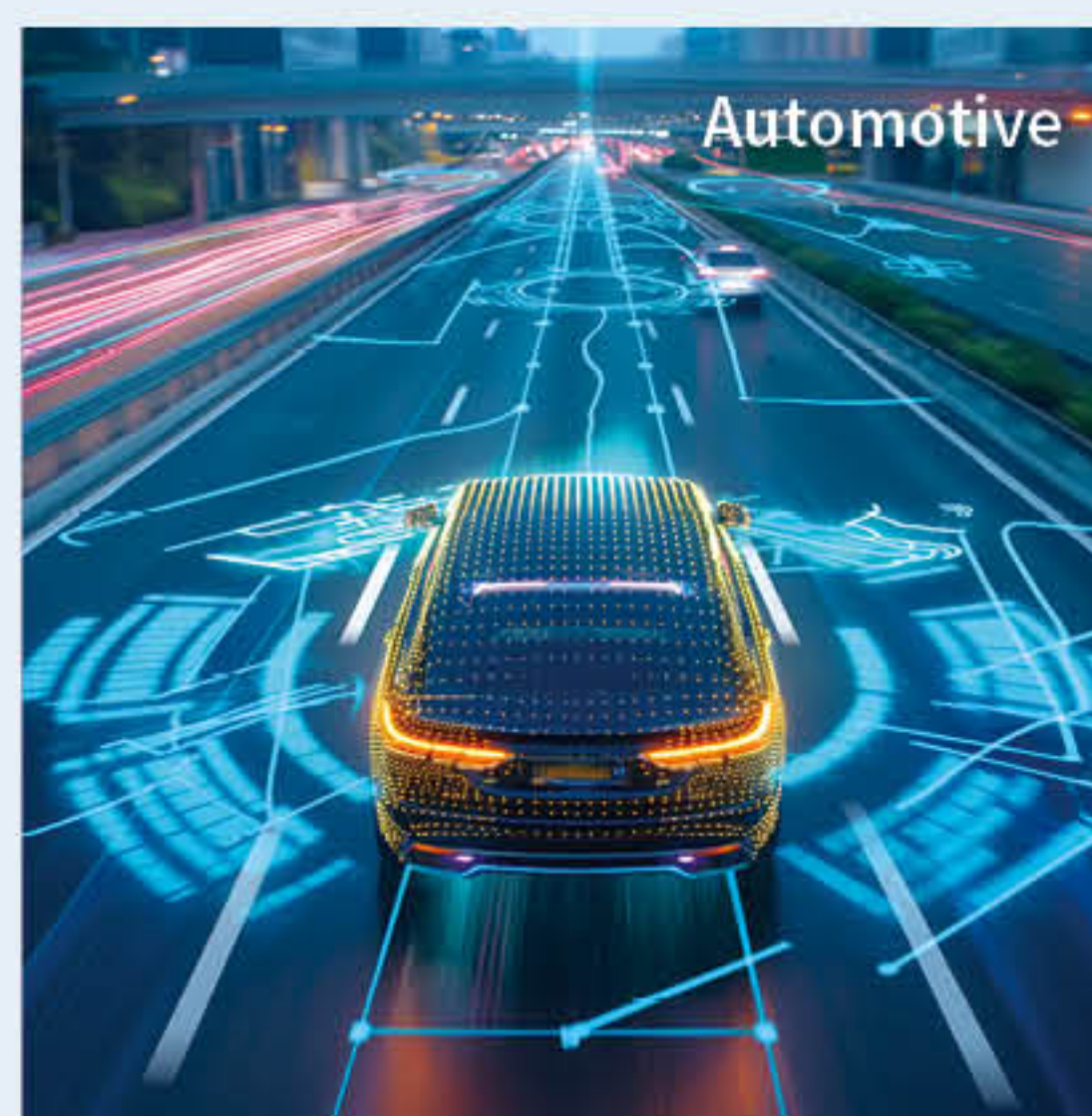
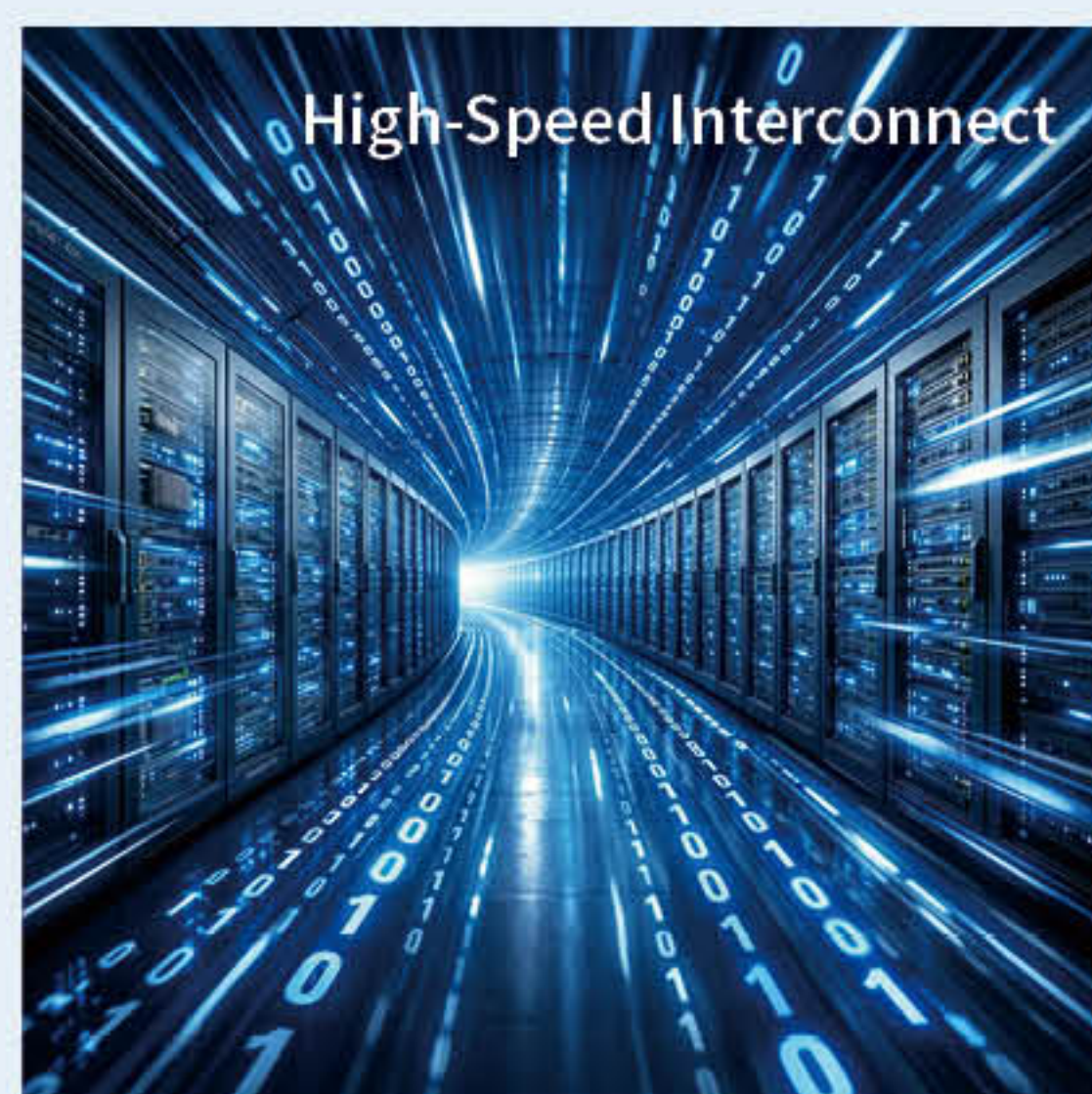


Automotive Camera Optical VCFA-01 Cable



Automotive Sensor Optical VCFA-P1 Cable





CONNECTOR

LC

LC Uniboot Plus EZ-Pull Connector	19
LC Metal Uniboot Connector	20
LC PRO Horizontal Latch Connector	21
LC Lite 0.9mm Connector	22
Micro LC Snap-in Connector	23
LC Premium Connector	24
LC Mini 25mm Connector	25
LC Standard Connector	26
LC Switchable Uniboot Connector	27
LC HD Uniboot Connector	28

SC

SC Pushable / Pulling Eye Connector	29
SC Simplex / Duplex Connector	30

FC / ST

FC Connector	31
ST Connector	31

LC / SC / FC / ST

Universal Boot	32
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MPO

MT Ferrule	33
MPO EZ-Pull Connector	34
MPO Connector	35
MPO Mini Connector	36

LC / SC

Field Installable Connector	37
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LC Uniboot Plus EZ-Pull Connector

Description

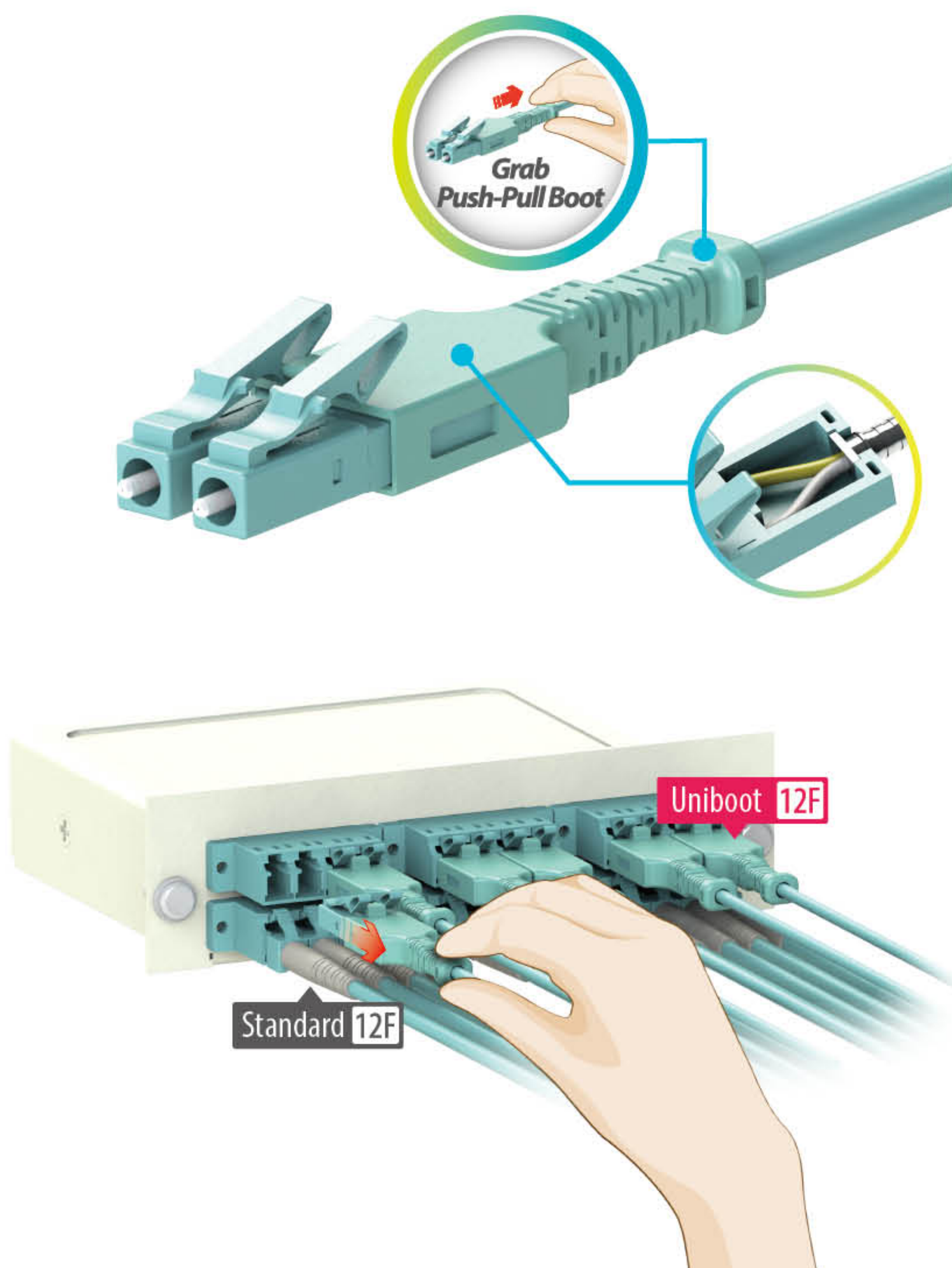
The ACON OPTICS LC Uniboot Plus EZ-Pull Connector sets a new standard in fiber optic connectivity. With its innovative easy push-pull design and enhanced boot structure, it simplifies cable management in high-density networks. Designed for modern data centers, it delivers unmatched convenience, adaptability,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



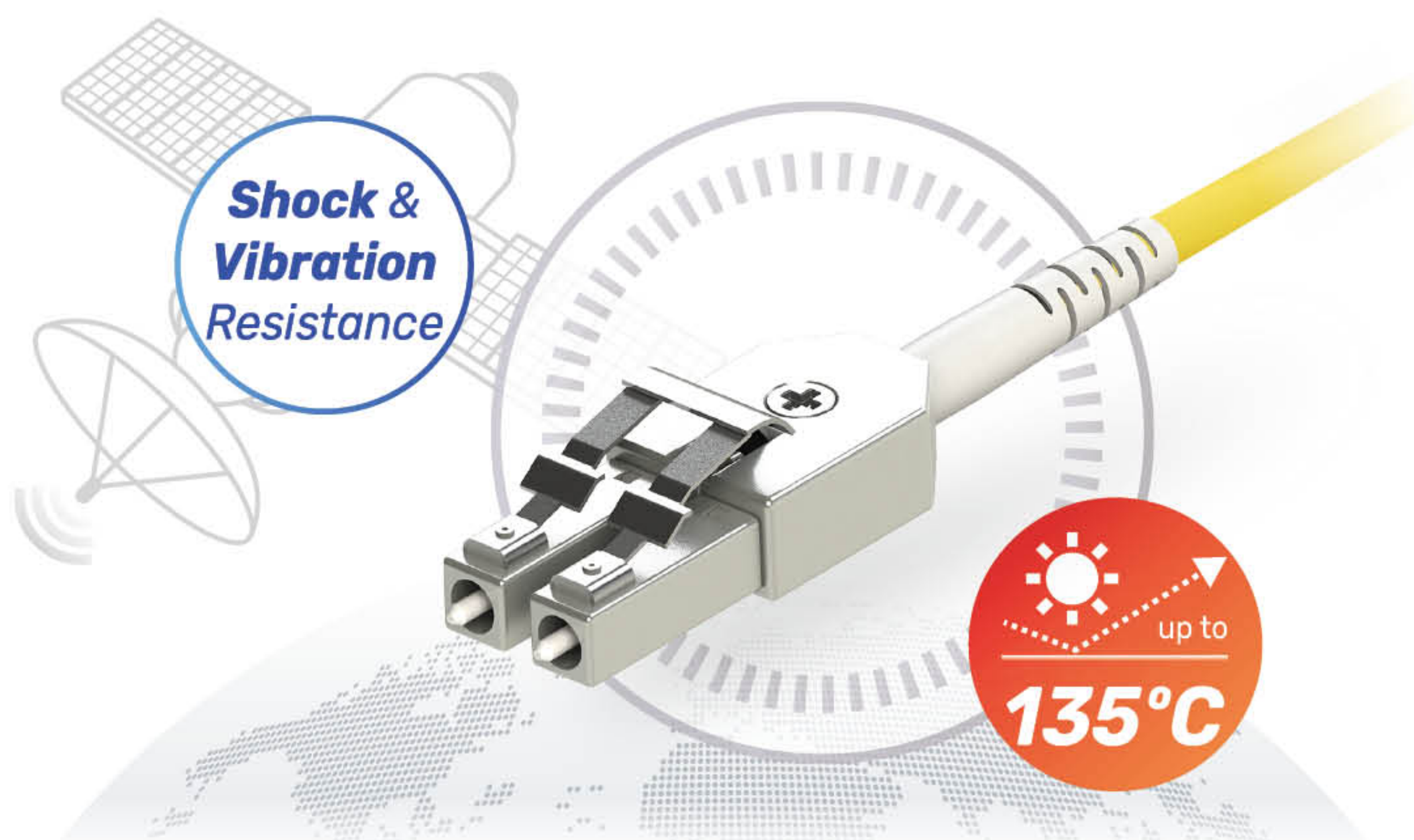
Blue (SM)	Aqua (MM)	Black (MM)
Green (SM/APC)	Erika Violet (MM)	
Beige (MM)	Lime Green (MM)	

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

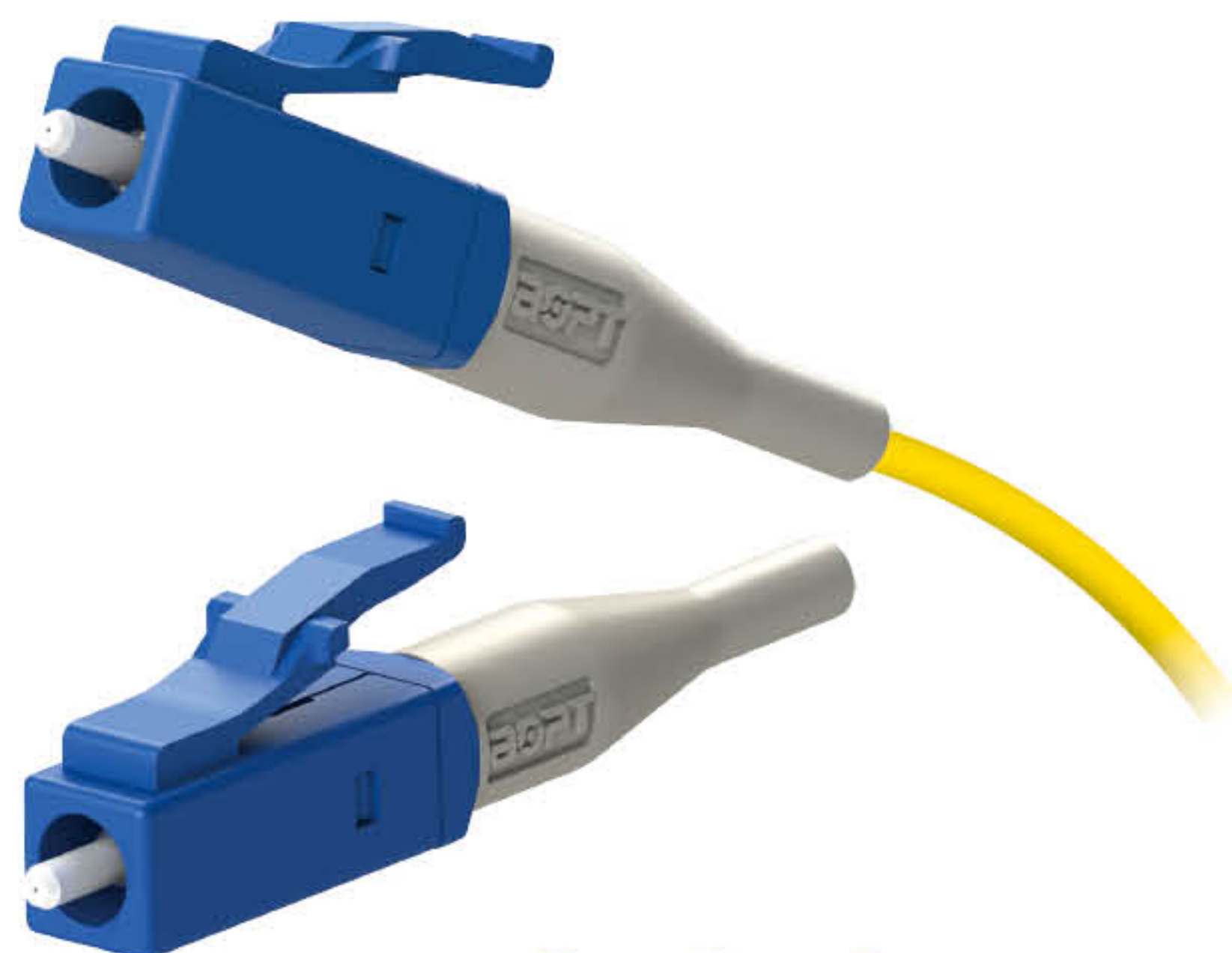
- Metal Housing for enhanced durability
- Heat Resistance up to 135°C
- Improved Shock and Vibration Resistance
- Uniboot Design simplifies cable management
- Available in Simplex & Duplex
- Supports SM/PC, SM/APC & MM/PC
- Complies with IEC 61754-20

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

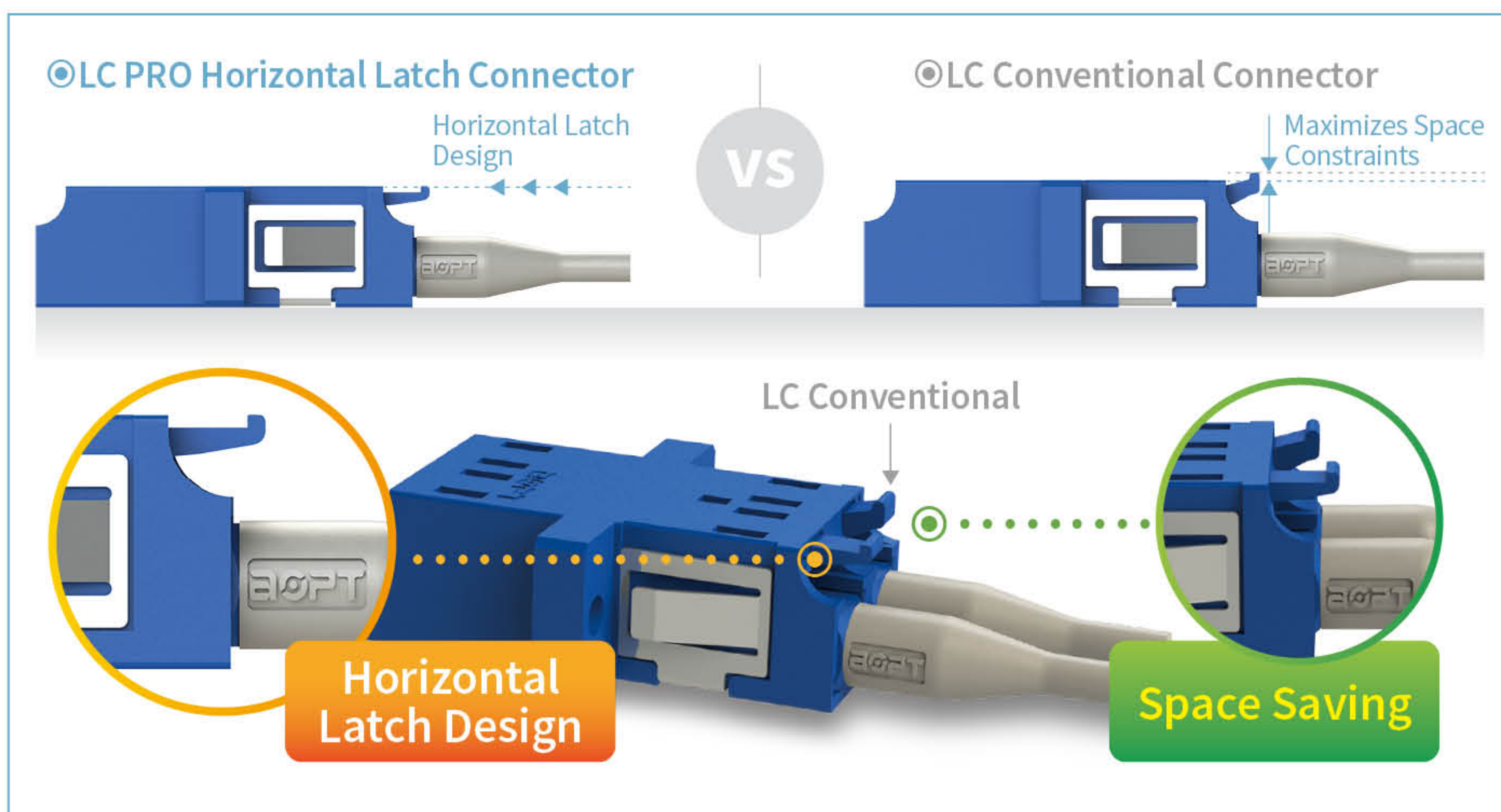
Horizontal Latch design maximizes space constraints.

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

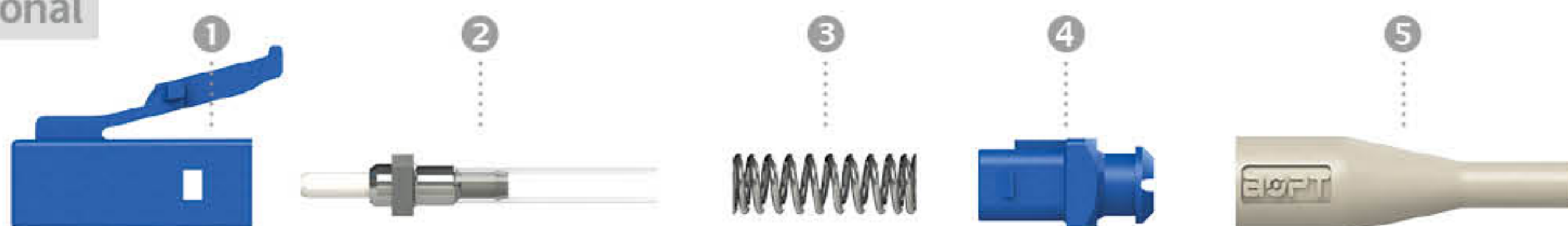
Blue (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

Square flange design
Reduce insertion loss



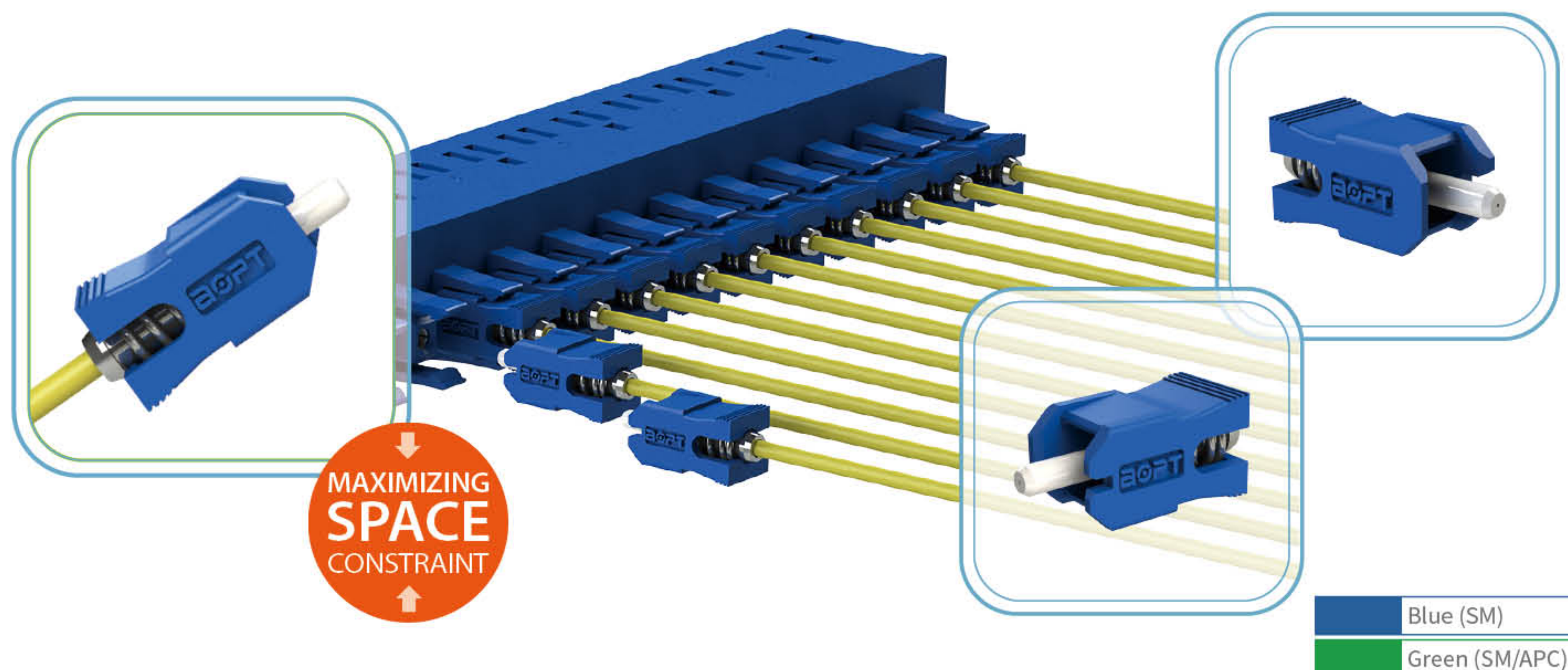
Coupling & Stopper
into one piece

LC Conventional



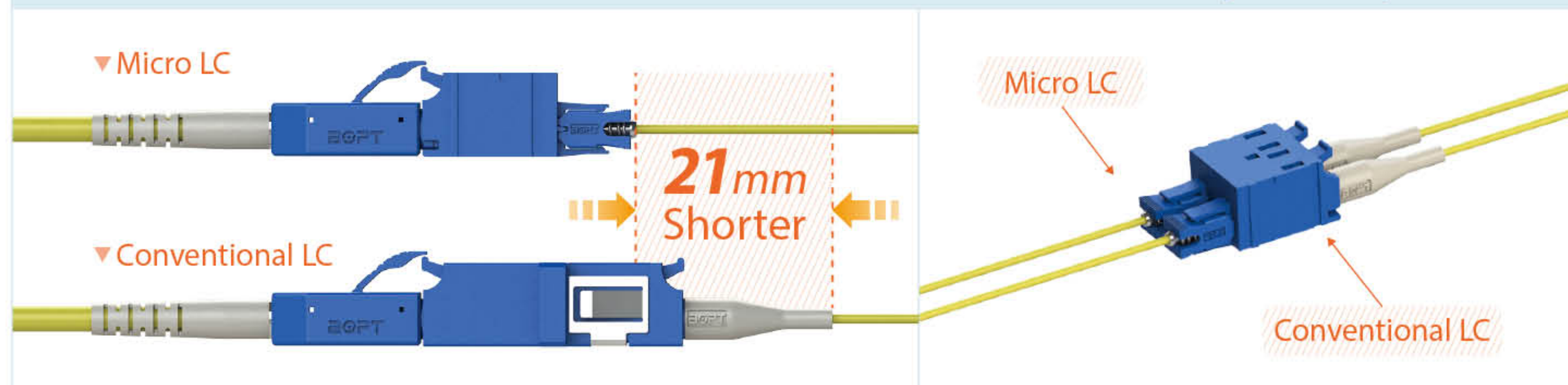


Micro LC Snap-in Connector



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.

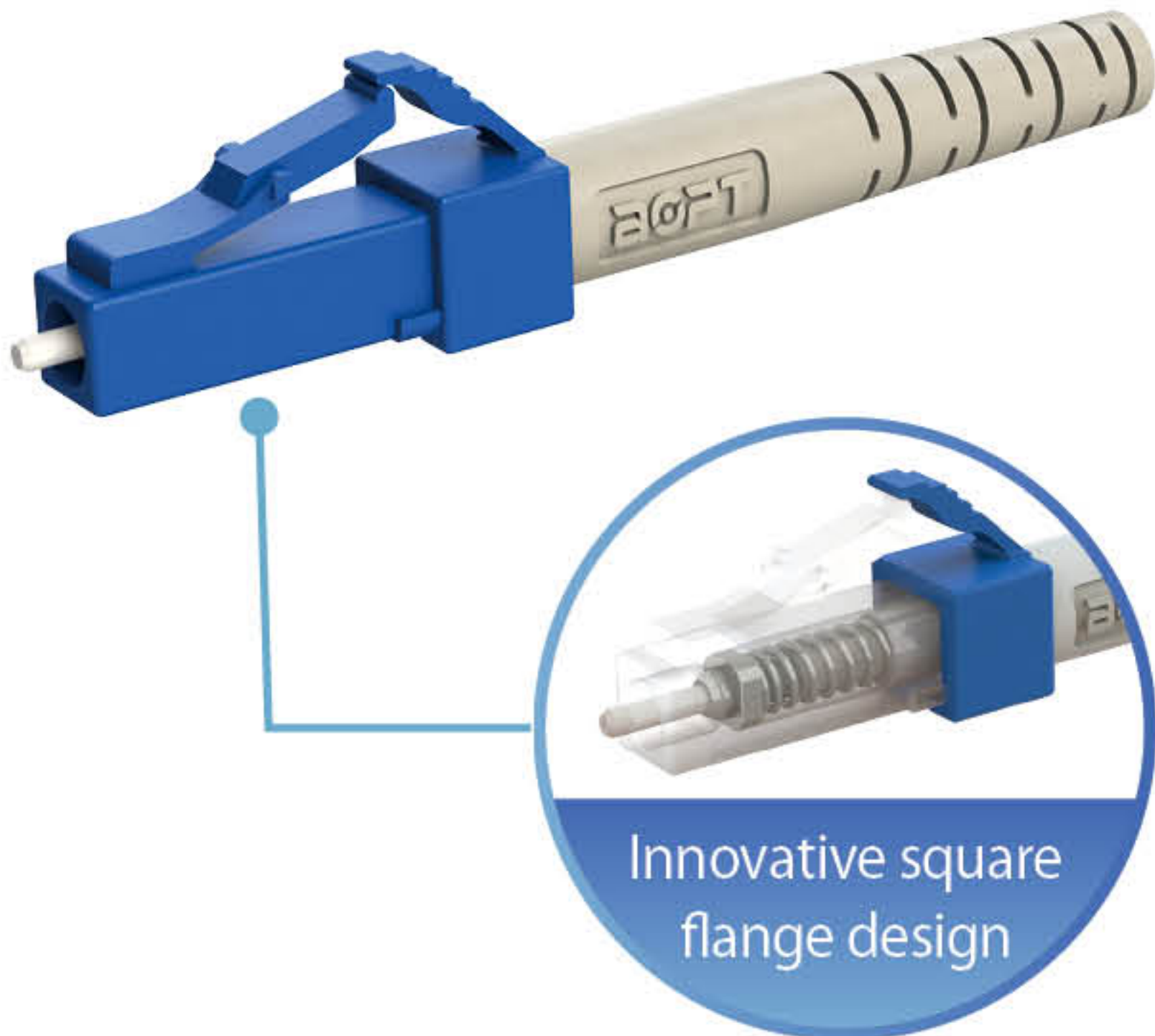
Applications

- 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

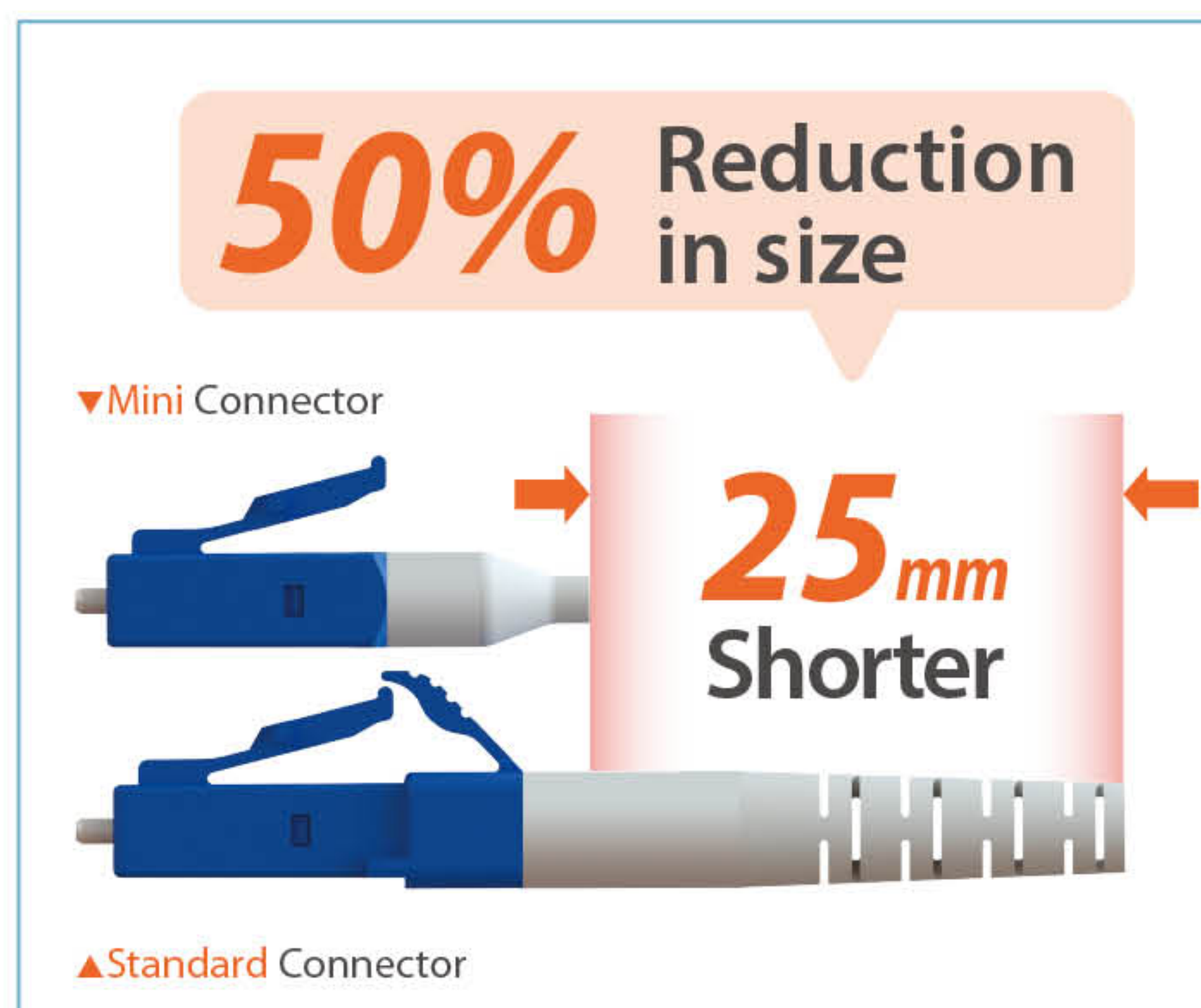
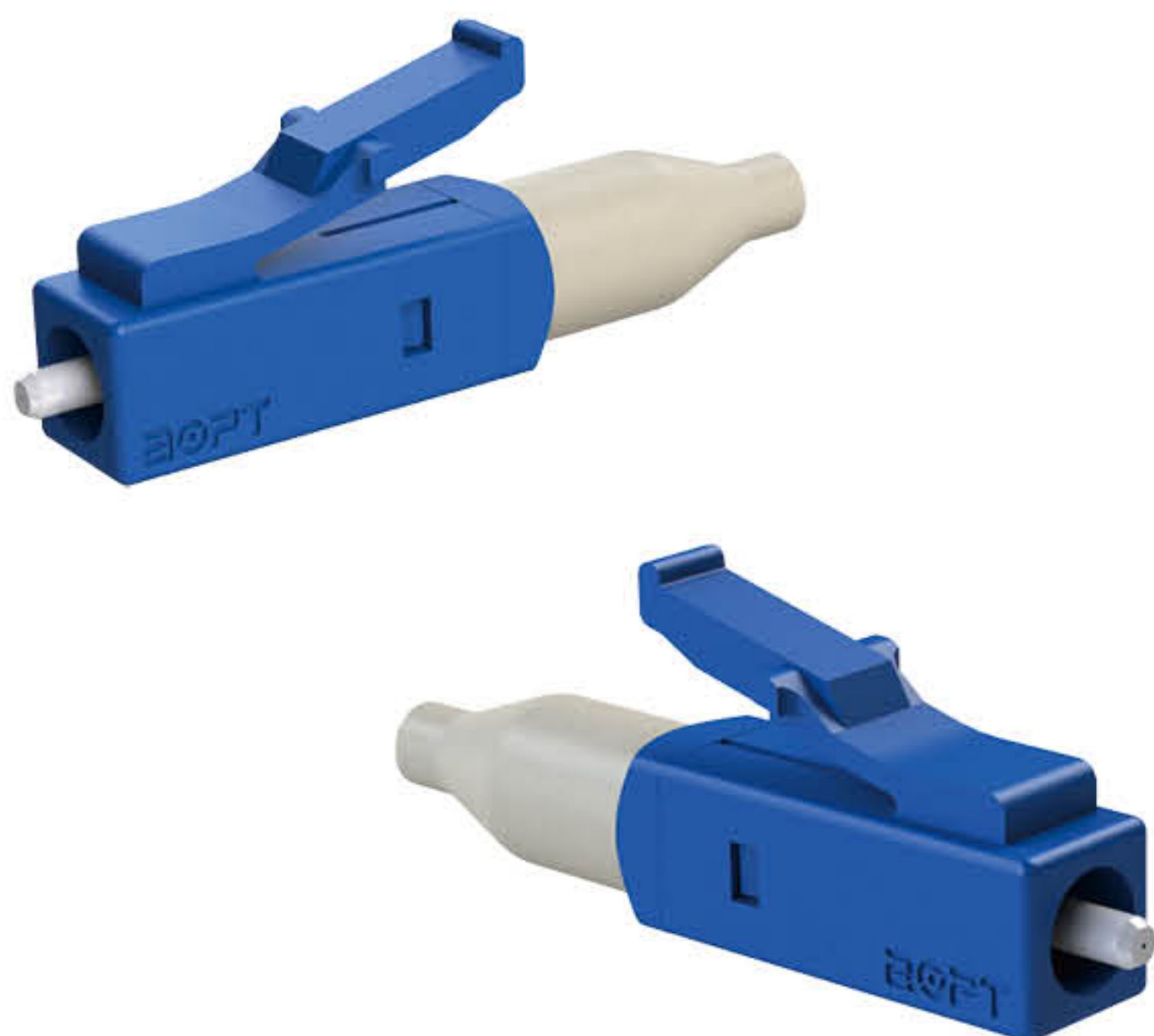


Grade A
0.15dB

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

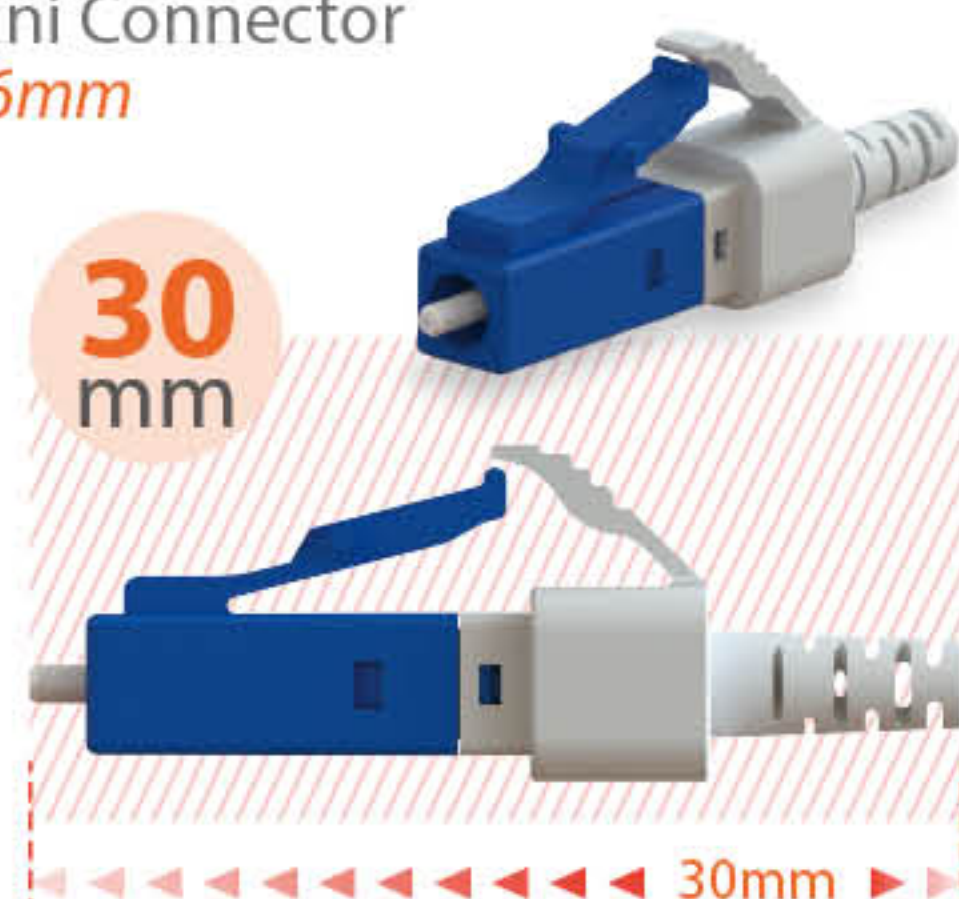
- Data communications
- Telecommunications
- Optical measurement instruments
- FTTx deployments
- 4G/LTE, 5G base station
- CATV

Features

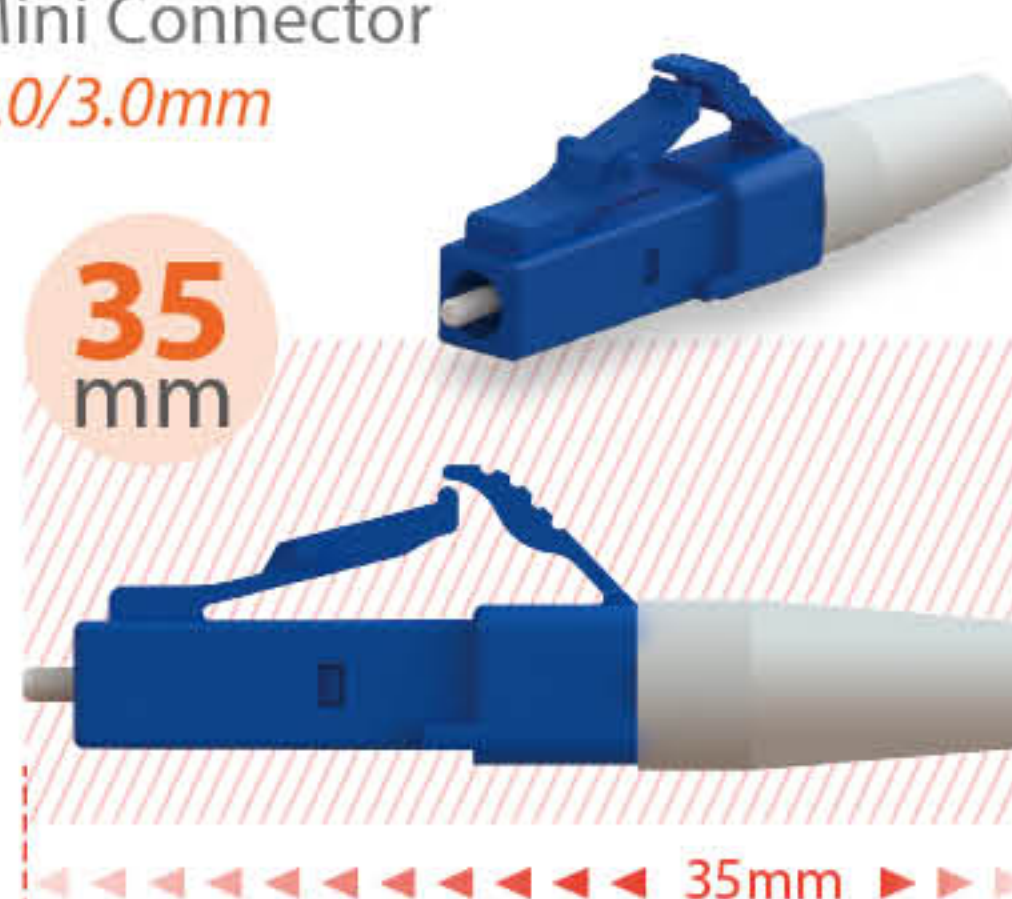
- World compact BTW LC with 900μm mini boot.
- Connector is half the length as compared to standard LC.
- Short boot design to save space for adapting small cassette.
- Remarkable increase in space on the back end panel.

More LC Mini Connector Options

Mini Connector
1.6mm



Mini Connector
2.0/3.0mm



Mini Connector
2.0/3.0mm



LC Standard Connector

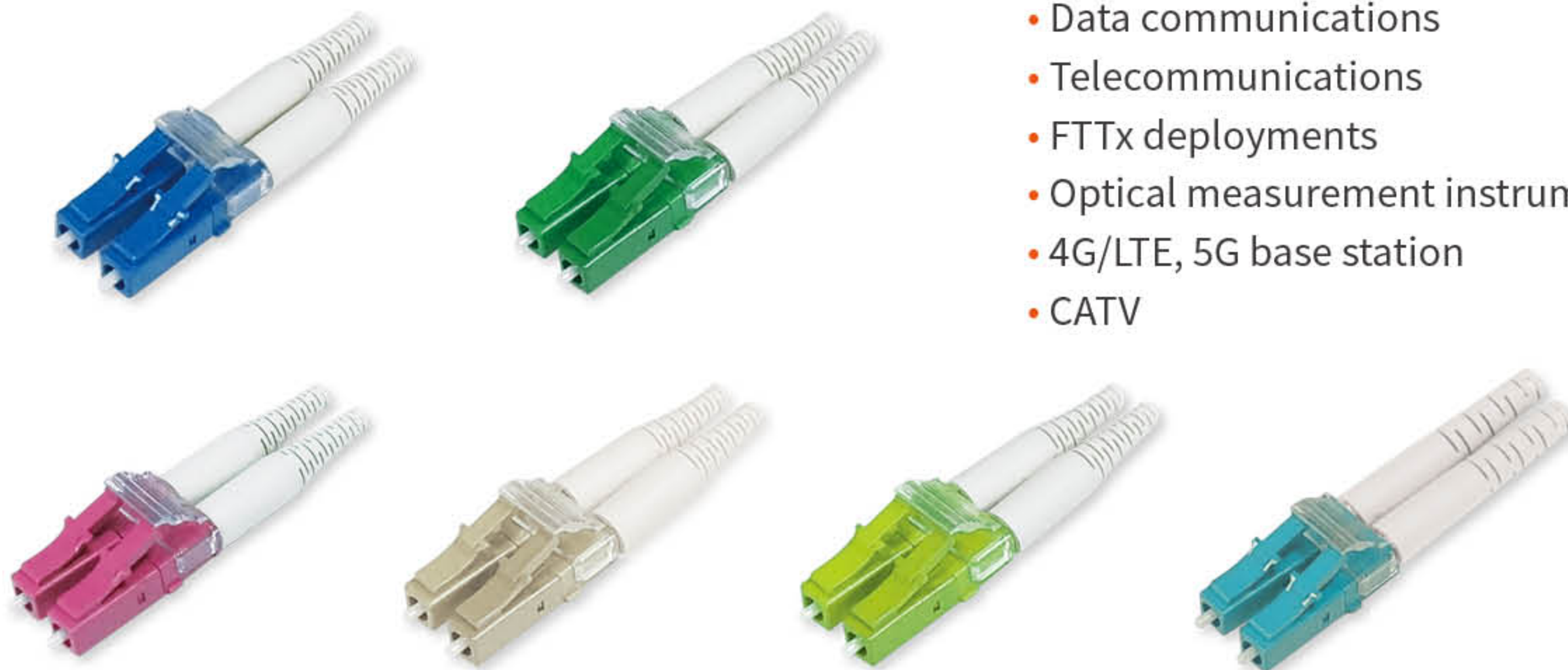
● LC Standard 45mm



● 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

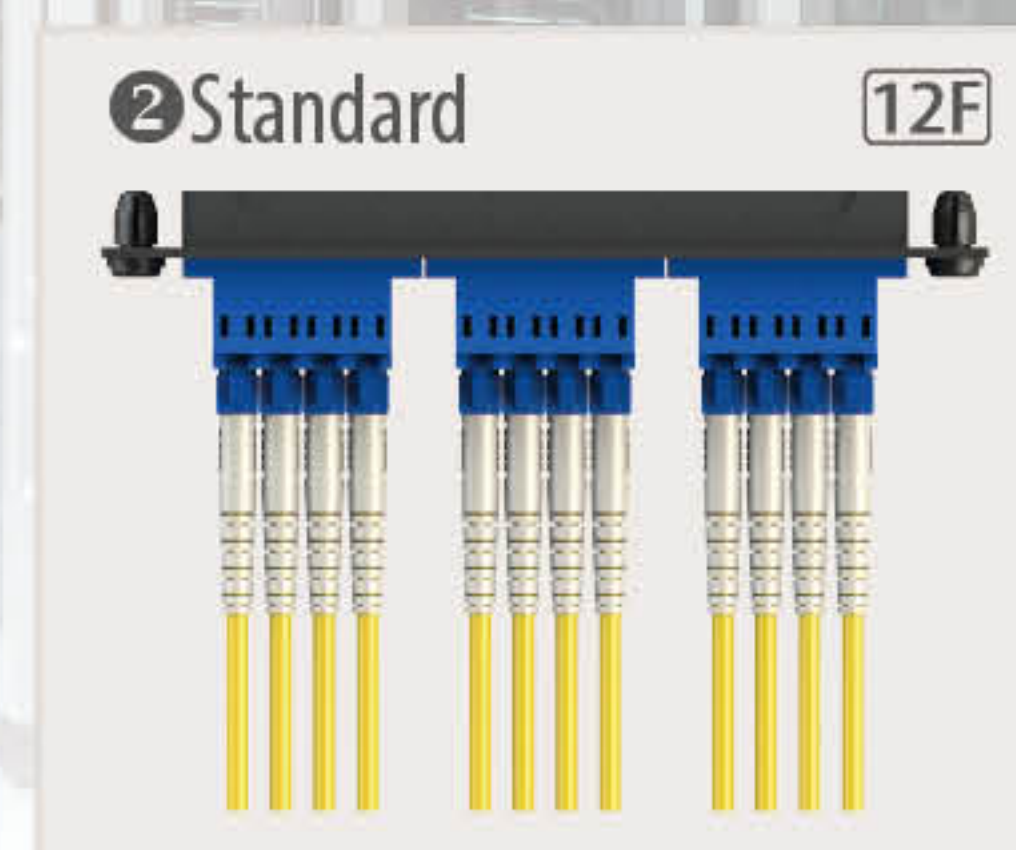
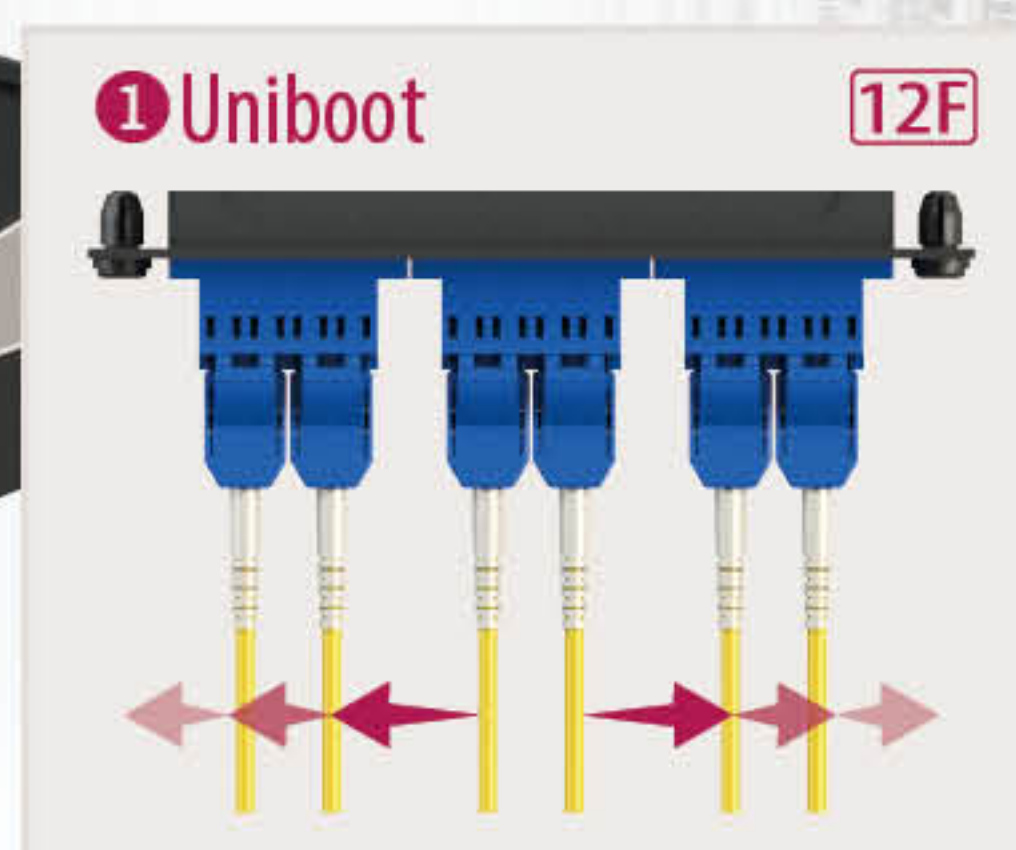
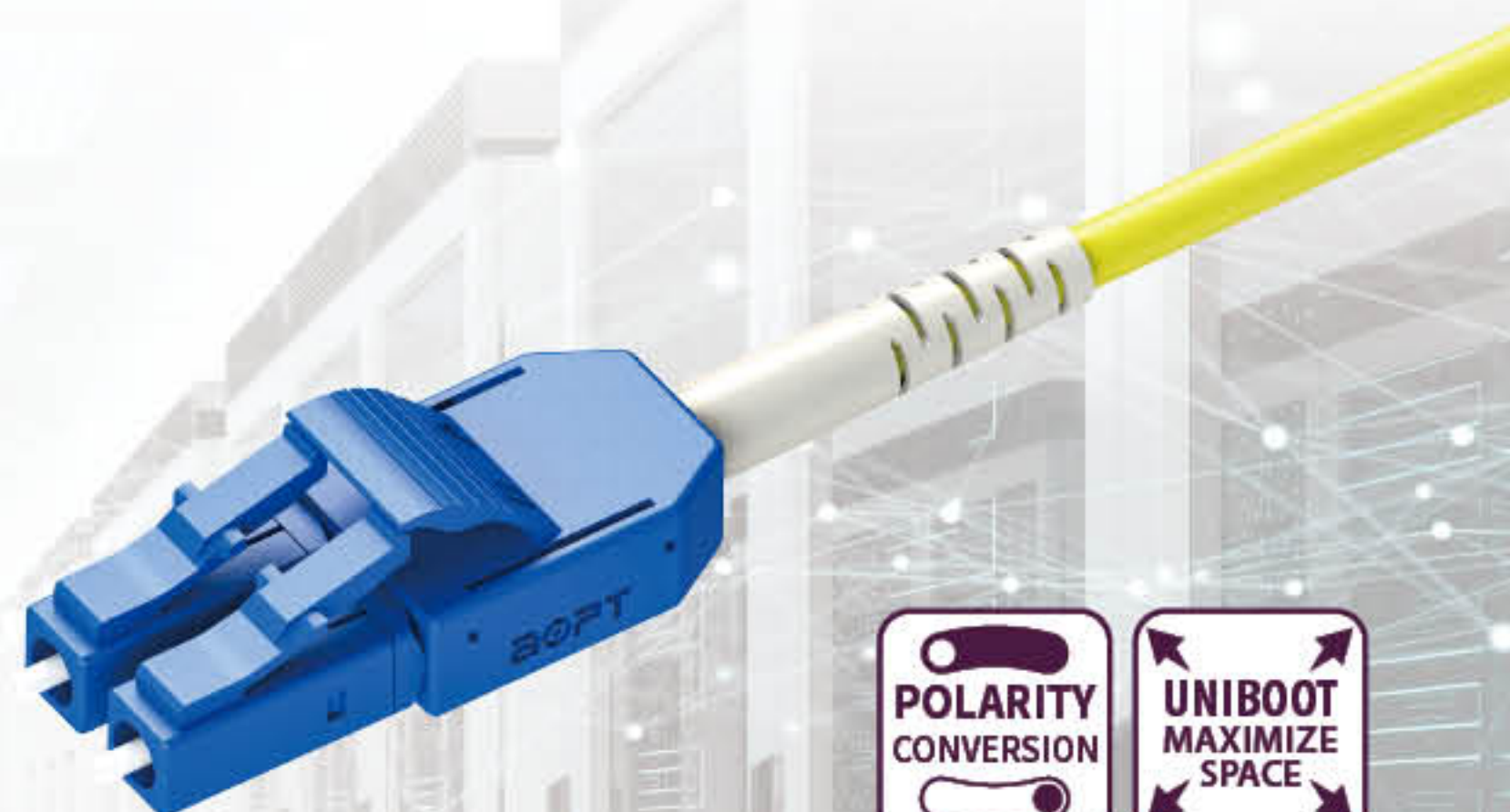


Blue (SM)	Aqua (MM)
Green (SM/APC)	Erika Violet (MM)
Beige (MM)	Lime Green (MM)

LC Switchable Uniboot Connector

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

**50%
REDUCTION
IN CABLES**



LC HD Uniboot Connector



● LC HD Uniboot Mini Push-Pull Tab



● LC HD Uniboot Tab (Fixed)



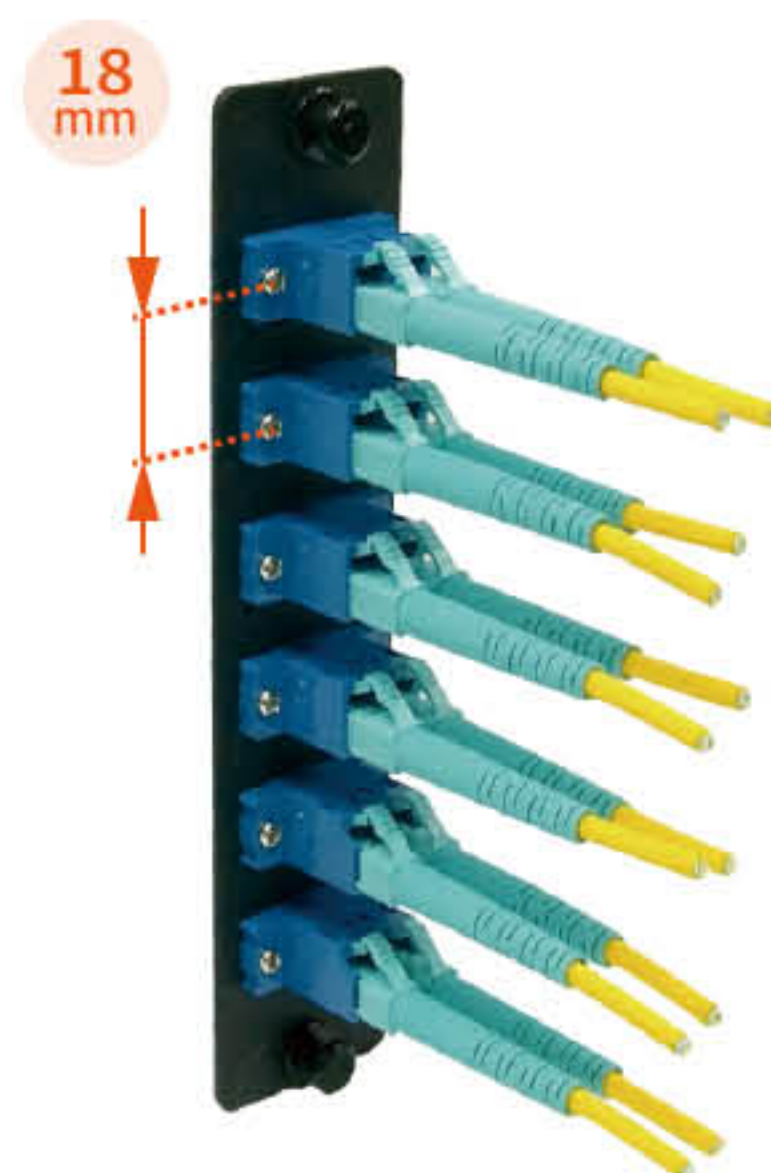
● LC HD Uniboot Tab (2-Step)



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

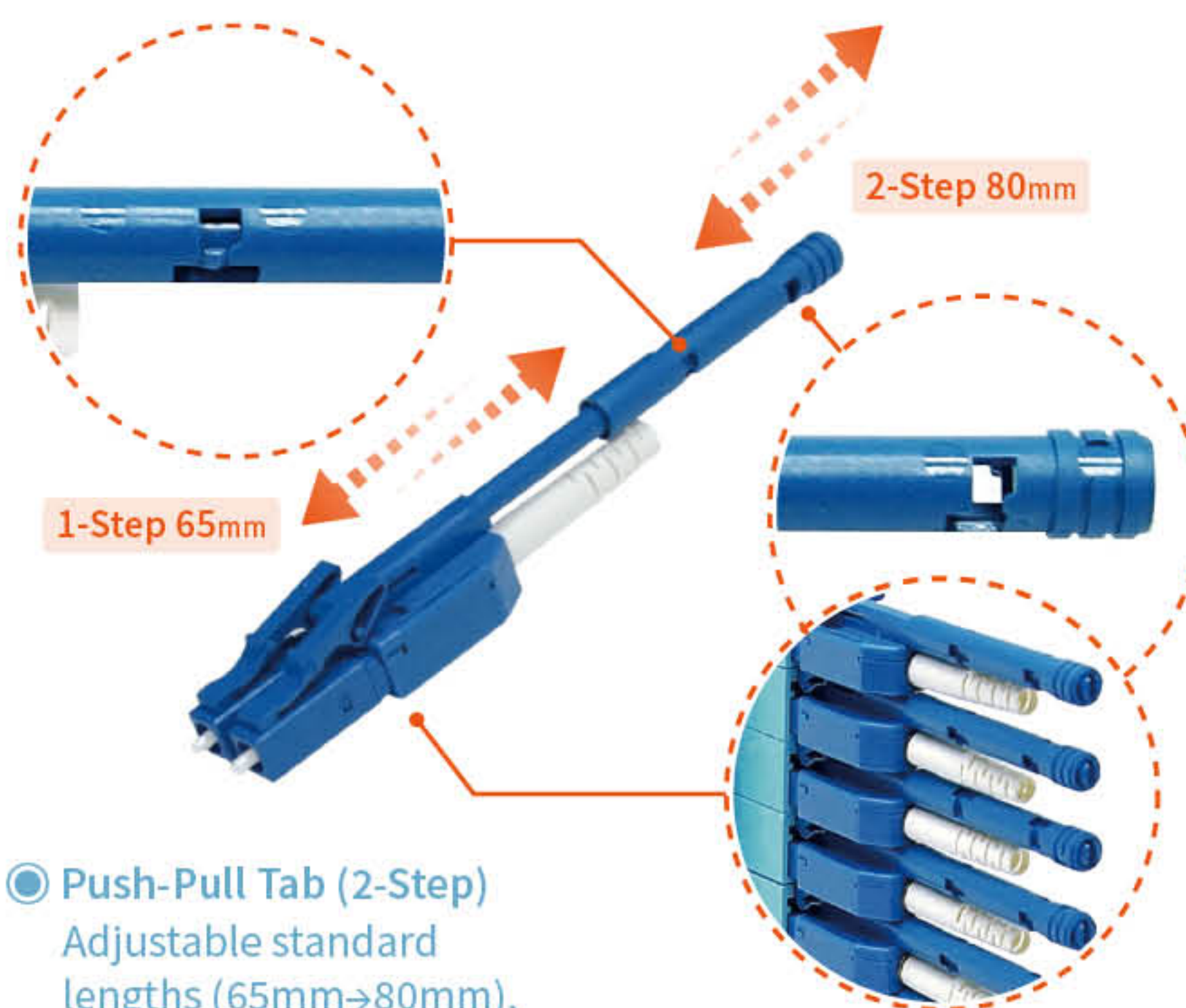


Description

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
mm I.D.
5.5

Install inside microducts
mm I.D.
6.5

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

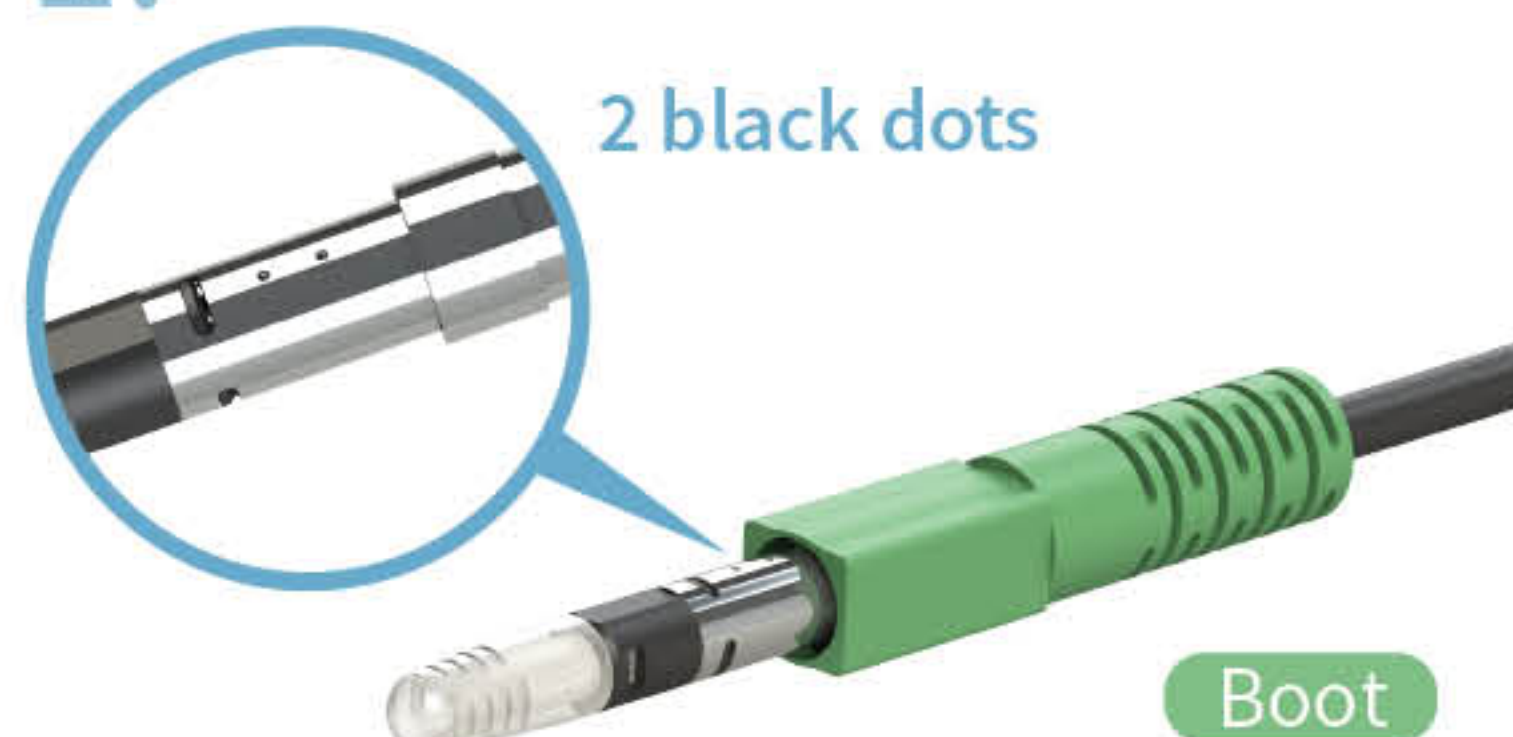
- Complies with IEC60874-14-2
- Guaranteed insertion loss & return loss with certification
- Install inside microducts as small as 5.5 mm I.D. (Pushable)/6.5 mm I.D. (Pulling Eye)
- Single-mode APC
- Low friction mechanism design
- Tool-less installation
- Pre-terminated pushable/pulling eye connectors

Applications

- FTTx indoor/outdoor cable
- Telecoms
- DAS

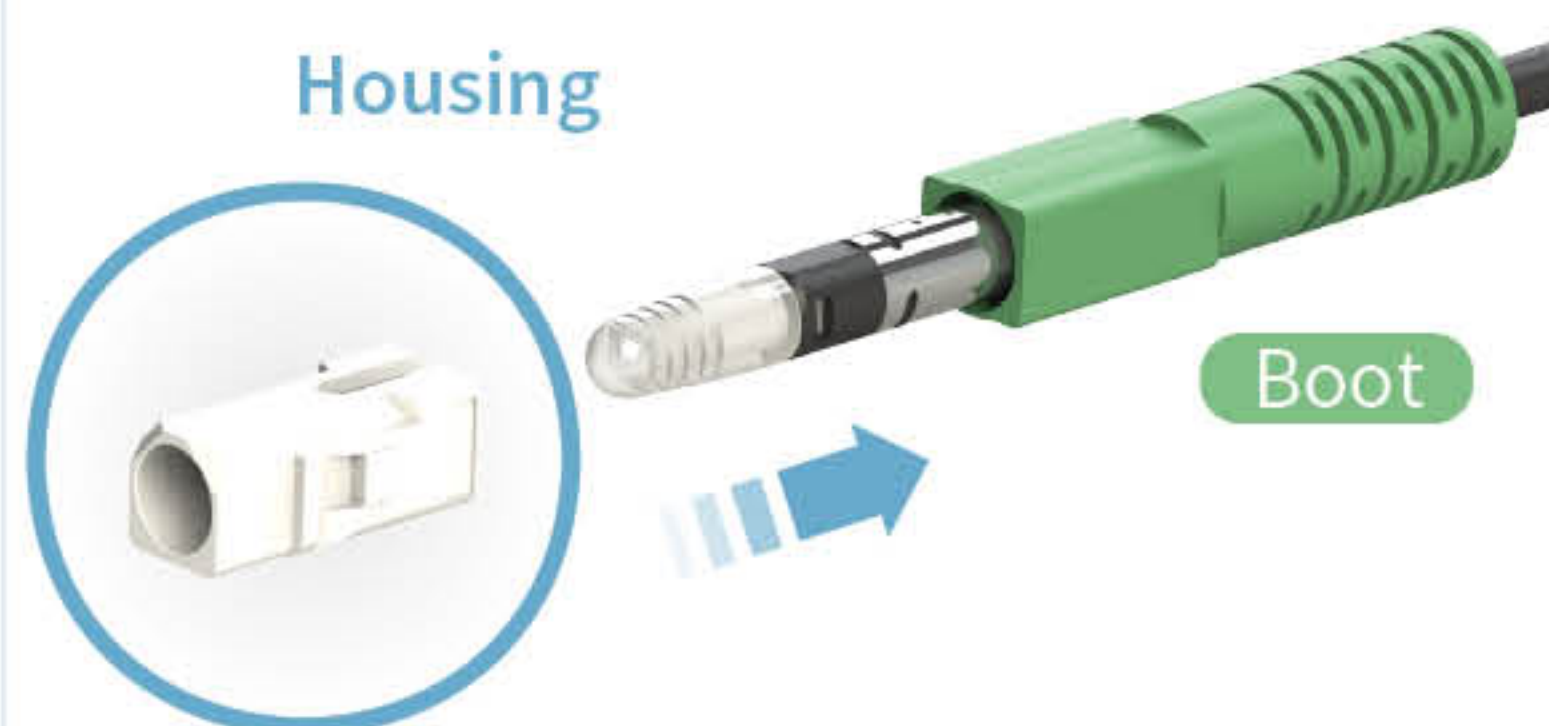
Installation

1.



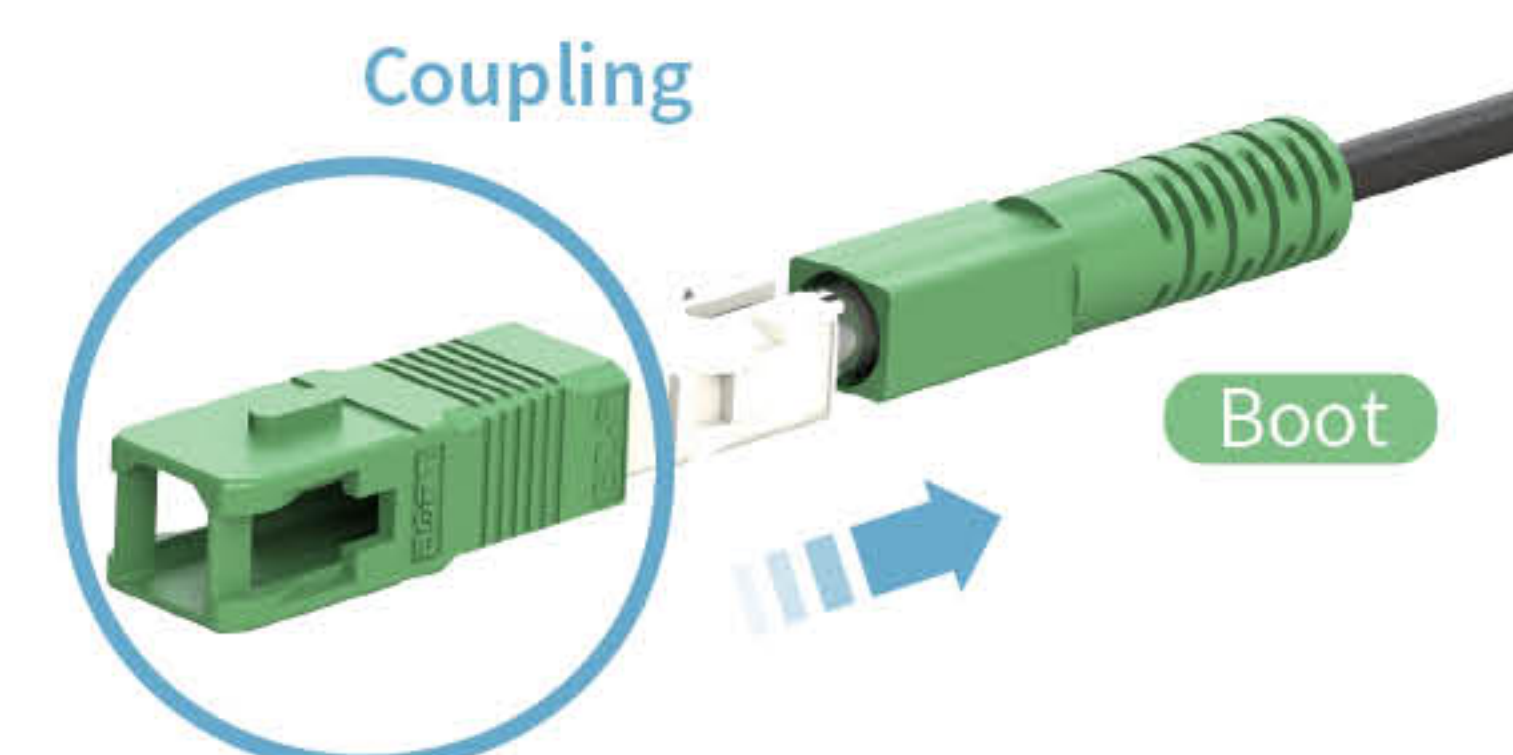
Slide boot over the body of the connector by aligning the 2 black dots on the body of the connector until it snaps into place.

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



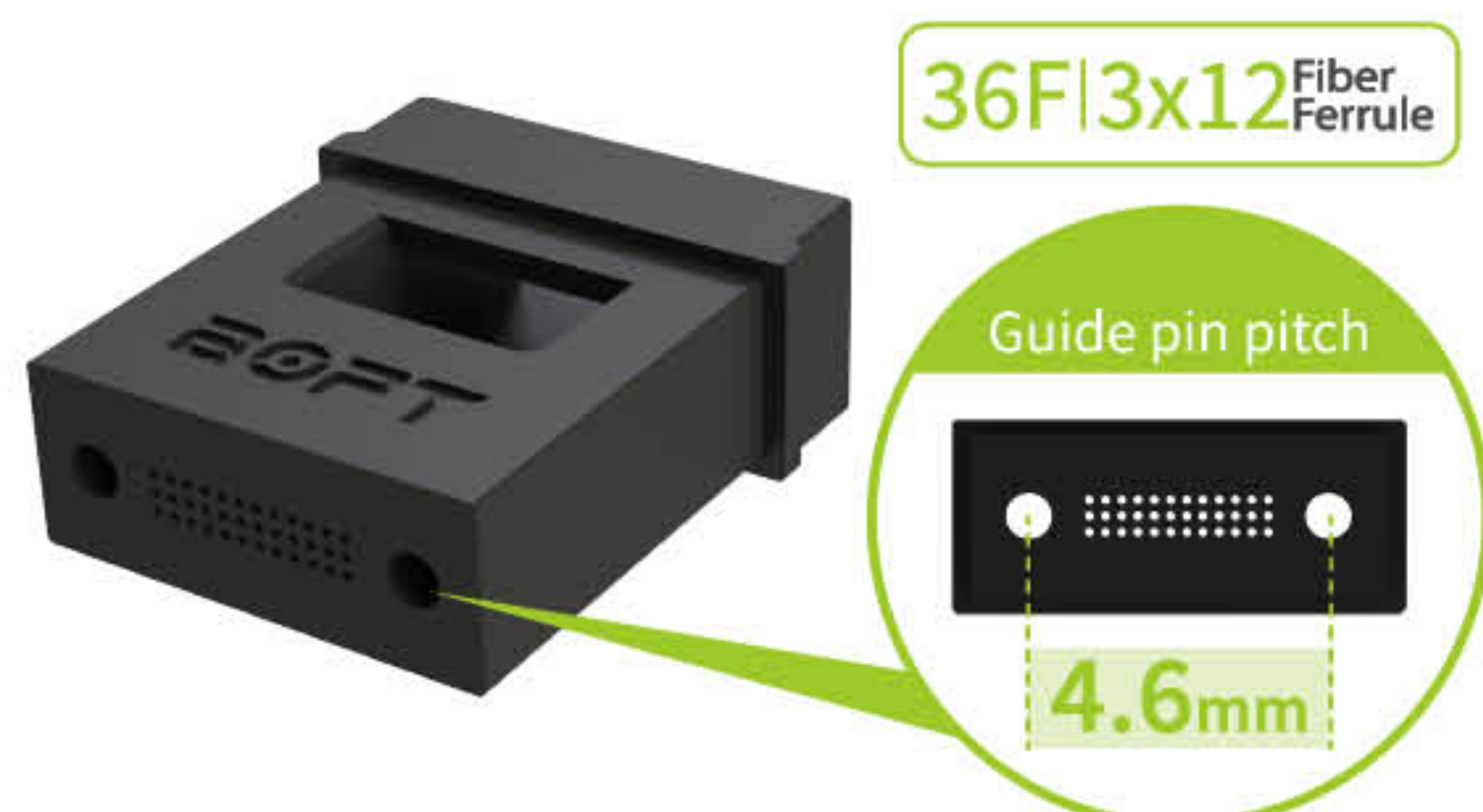
Universal Type Boot Specification

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	

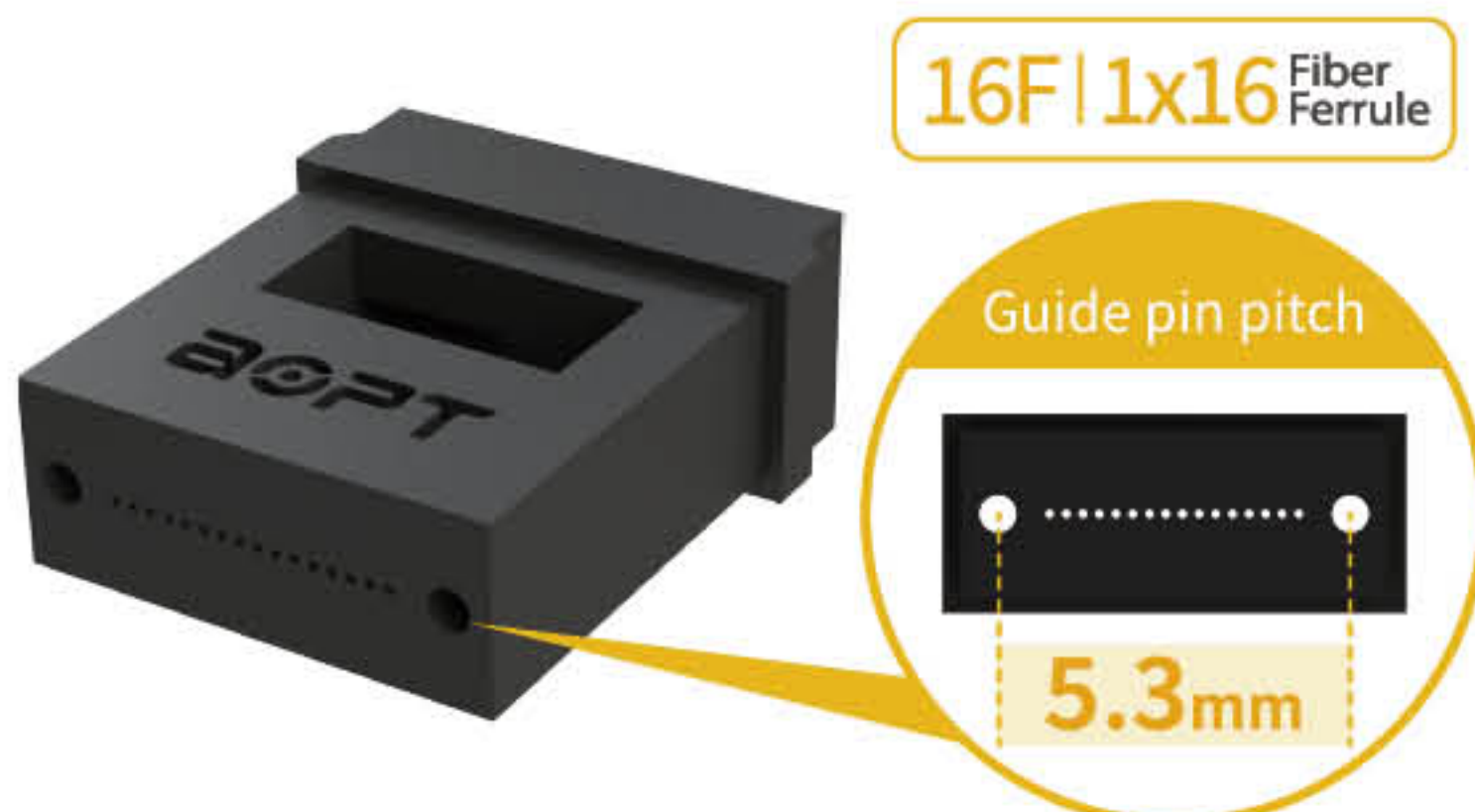
MT Ferrule

SUPPORT
800G
1.6T

MT Ferrule SM/MM 36F



MT Ferrule SM/MM 16F



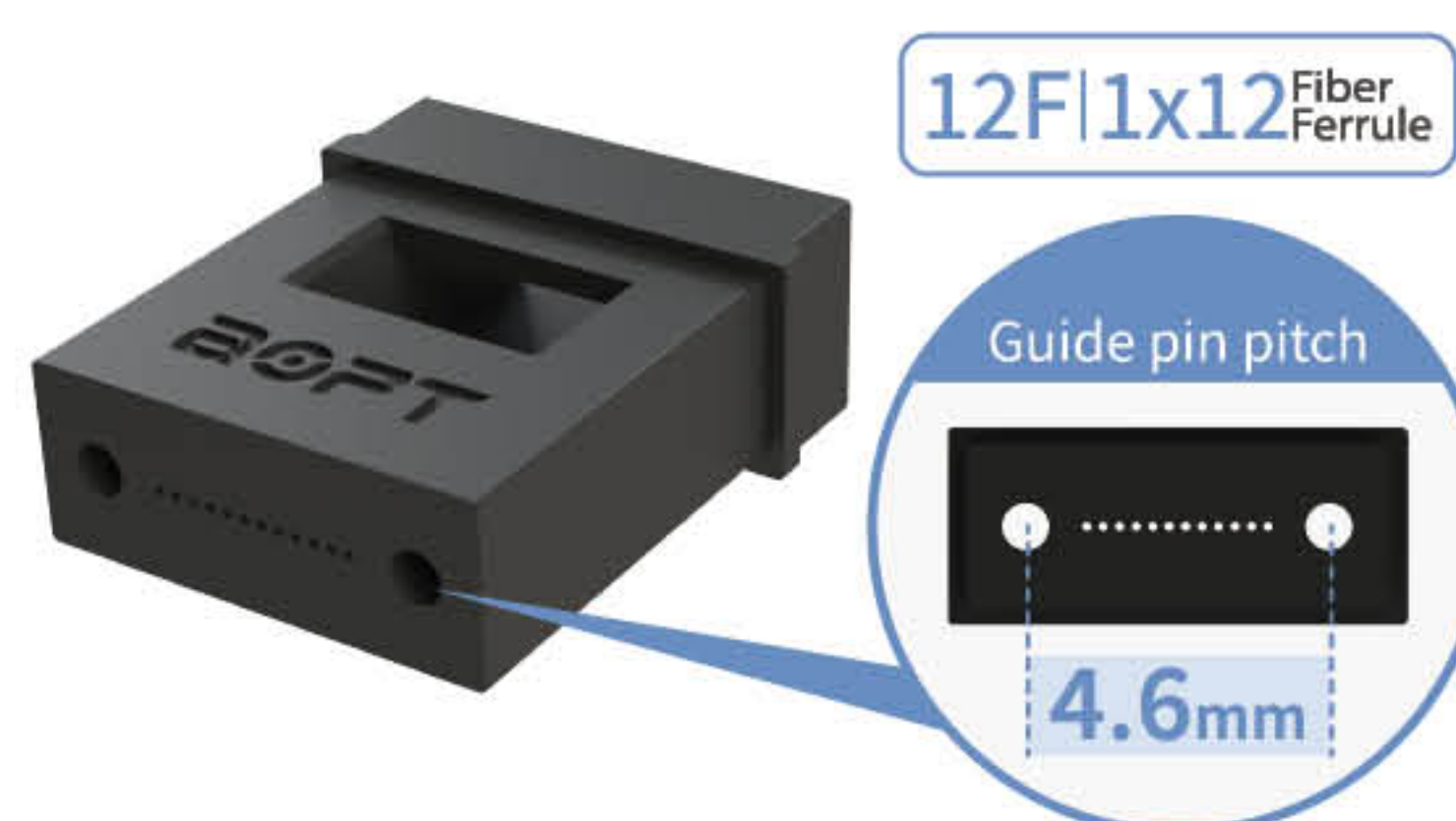
Description

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

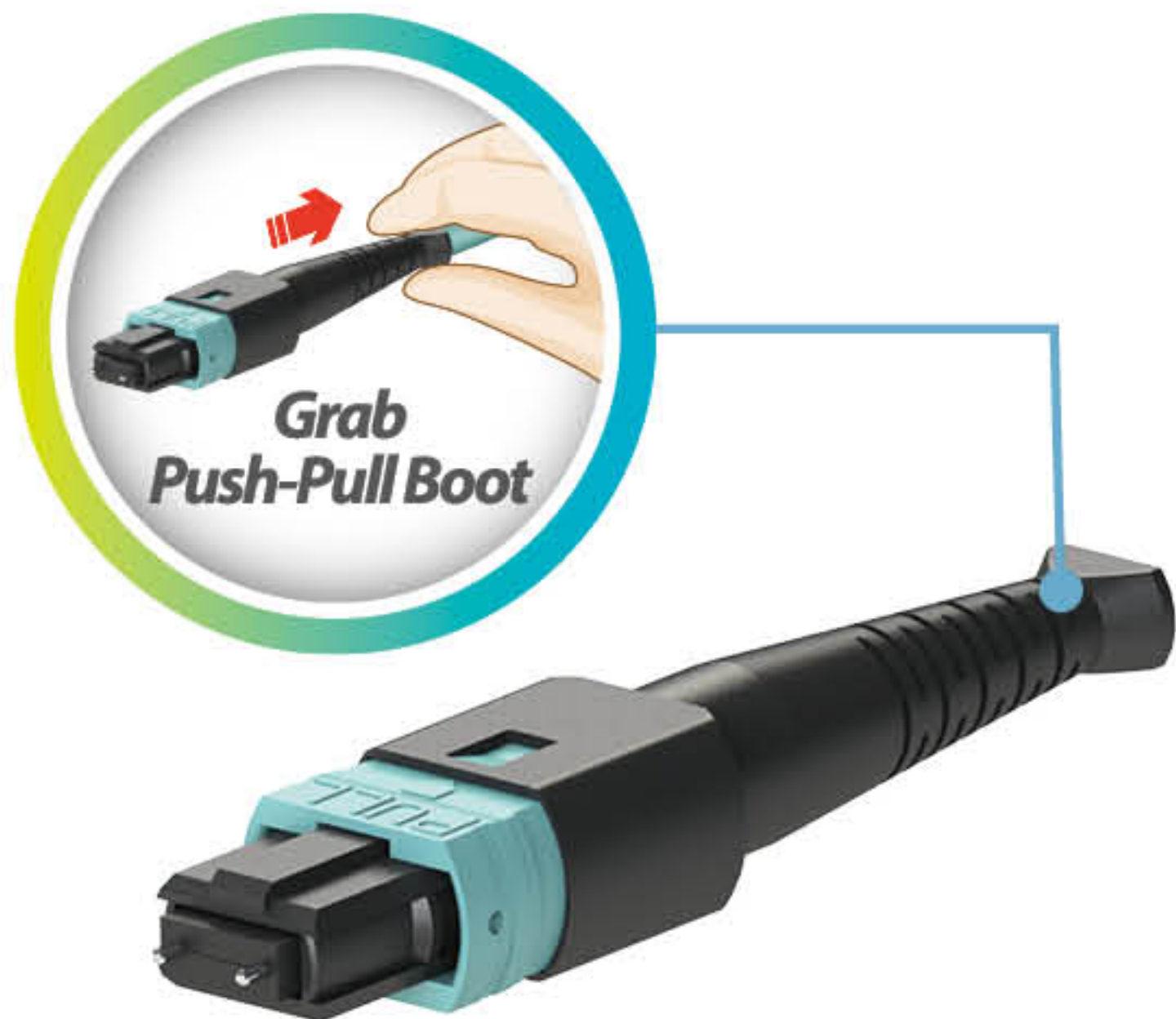


Features	36F MT Ferrule	16F MT Ferrule	12F MT Ferrule
High precision guide pin	★	★	★
Guide pin pitch	4.6mm	5.3mm	4.6mm
Fiber pitch of 0.25mm	★	★	★
High precision molding for high performance	★	★	★
Standard insertion loss of MAX 0.7 dB	★	★	★
Available to support for 400G and 800G link applications	★	★	★
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

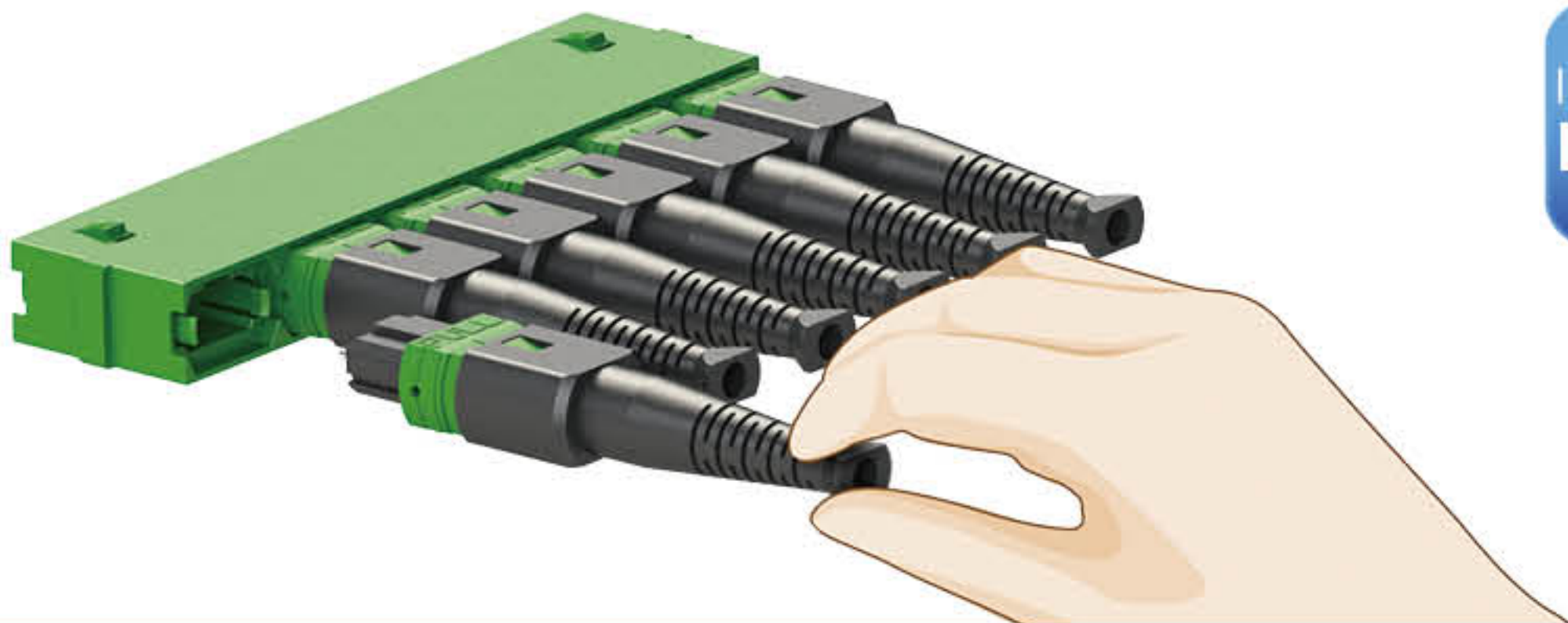


12/24 Fiber Center Key



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)

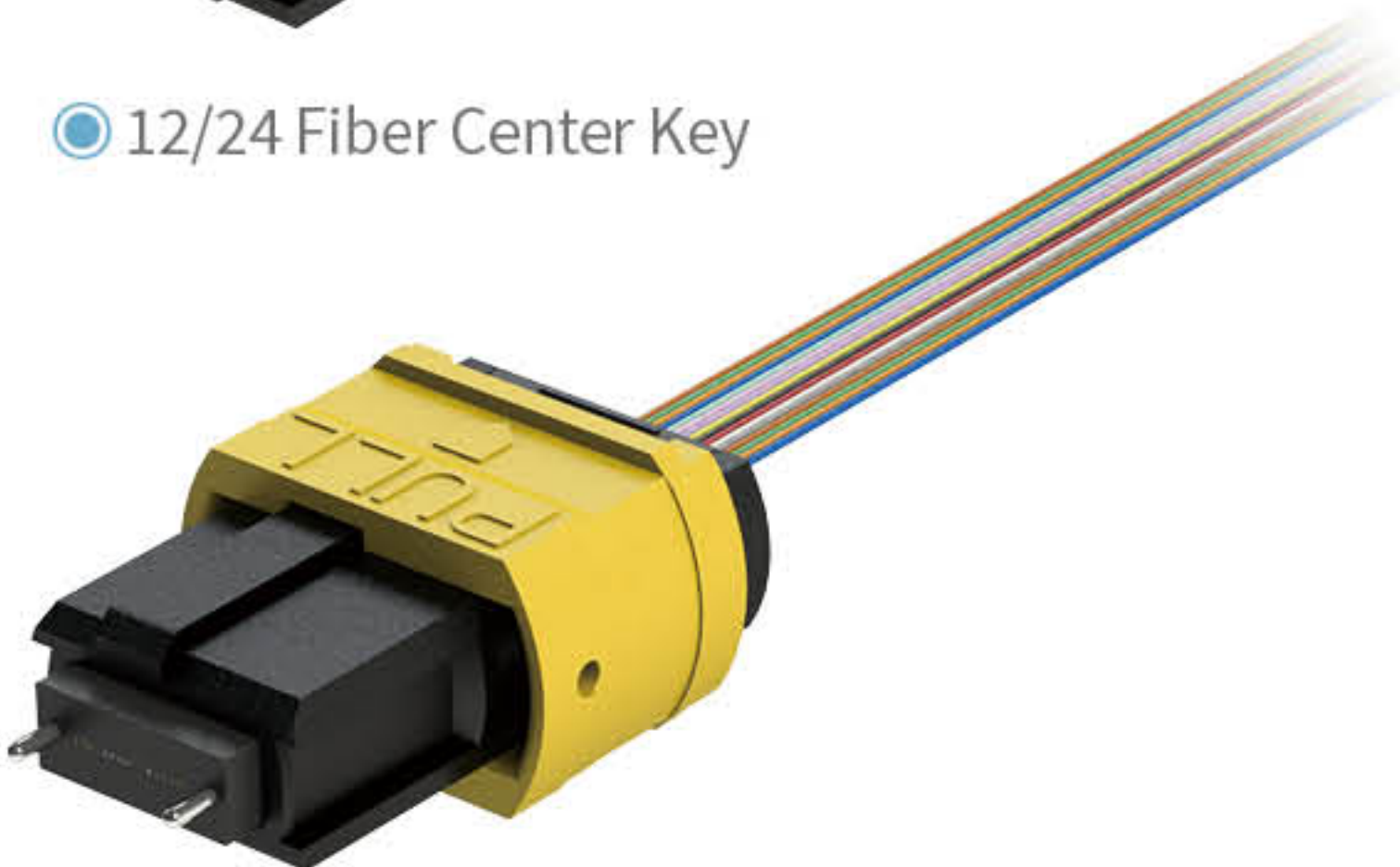
MPO Connector Specification

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

MPO Mini Connector



Conventional MPO Connector

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				



Adapter

LC

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SC

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MPO

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SC / FC / LC / ST

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LC Metal Adapter

● LC Metal Duplex Adapter



● LC Metal Quad Adapter



Description

The ACON OPTICS LC Metal Adapter is designed for environments that demand enhanced durability and reliable optical performance. Featuring a robust metal housing, it provides excellent mechanical strength and long-term stability, with optional EMI shielding available for applications requiring additional electromagnetic interference protection. Engineered for dependable performance, the LC Metal Adapter is well suited for aerospace, defense, industrial, data center, and telecommunications applications, where durability and signal integrity are critical.

Features

- Durable Metal Housing
- High Precision Alignment
- Compatible with SC Footprint
- Optional EMI Shielding

Applications

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

LC Inner Shutter Adapter



● LC Duplex Flange with Clip

● LC Duplex Flangeless with Clip



● LC Quad



Blue	Erika Violet
Beige	Lime Green
Aqua	

Description

The ACON OPTICS LC Inner Shutter Adapter is designed for the lasers blocking and dust insulating with the returnable internal shutter which is easy for the LC connector insertion and extraction.

Features

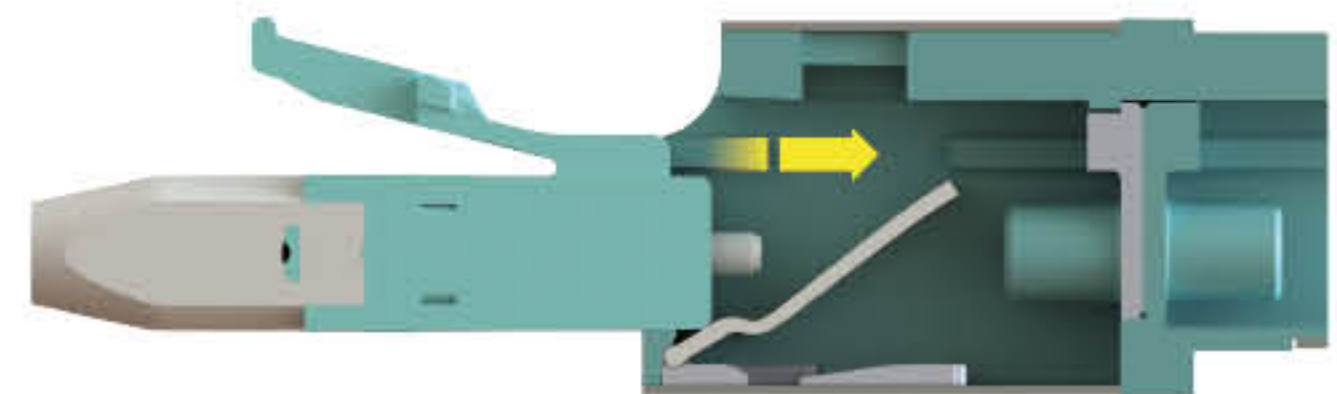
- One-piece molding case, without welding
- Compatible with SC Adapter footprint
- Protect eye exposure from laser light
- Block out external dust for interior protection
- The automatic opening and closing shutter for easily loading and unloading the LC connector

Applications

- Data communications
- Telecommunications
- FTTx deployments
- 4G/LTE, 5G base station

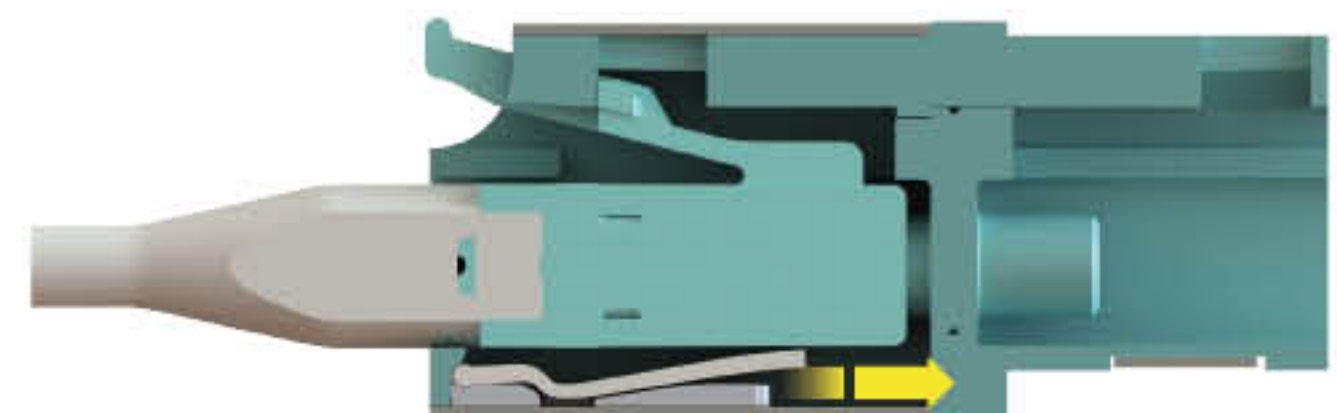
Ultimate dust and laser protection

1.



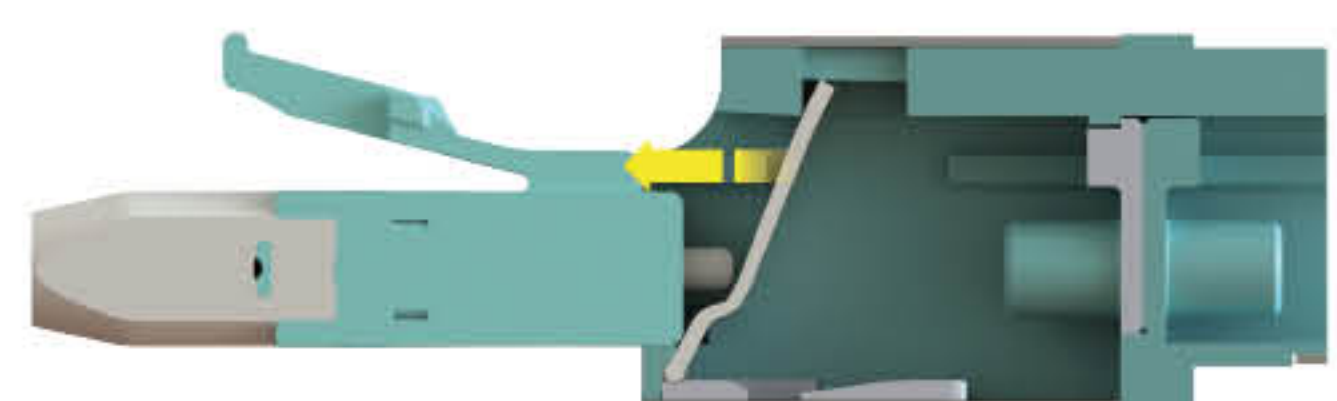
Internal shutter is open when inserted connector compressed the springs.

2.



Ferrule can be inserted into the adapter sleeve with ease.

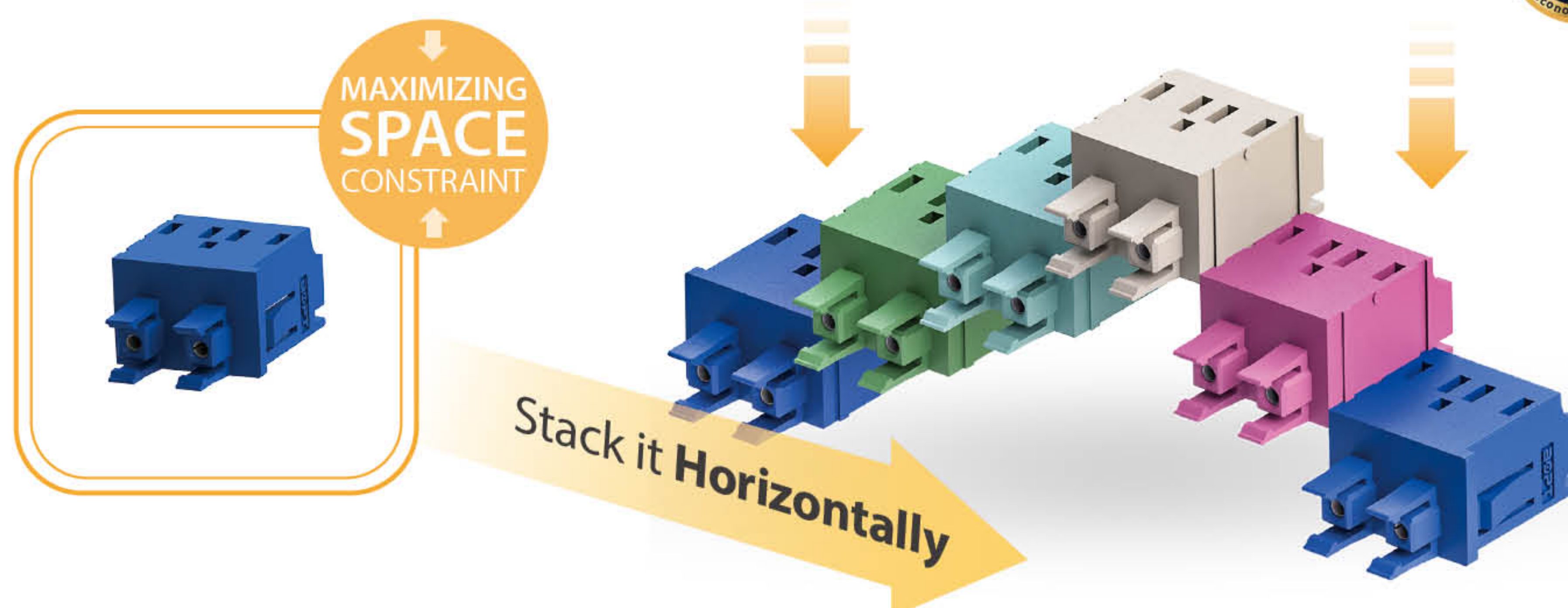
3.



Internal shutter will automatically close when the connector is removed from the adapter.



Micro LC Stackable Adapter



Description

Introducing the new horizontally stackable Micro LC Adapters. The stackable design can effectively maximize your space to your customized application.

	Blue
	Green

Features

- Micro LC Adapter is a hybrid Adapter which can accommodate micro LC connector and conventional LC connector.
- Compatible to conventional LC
- Remarkable increase in space on the back end panel and in small cassette.
- The best option for BTW application and high density solution.

Stackable Hybrid Micro LC Adapters



Left
Adapter Simplex



Right
Adapter Simplex



1
Set



Left
Adapter Duplex



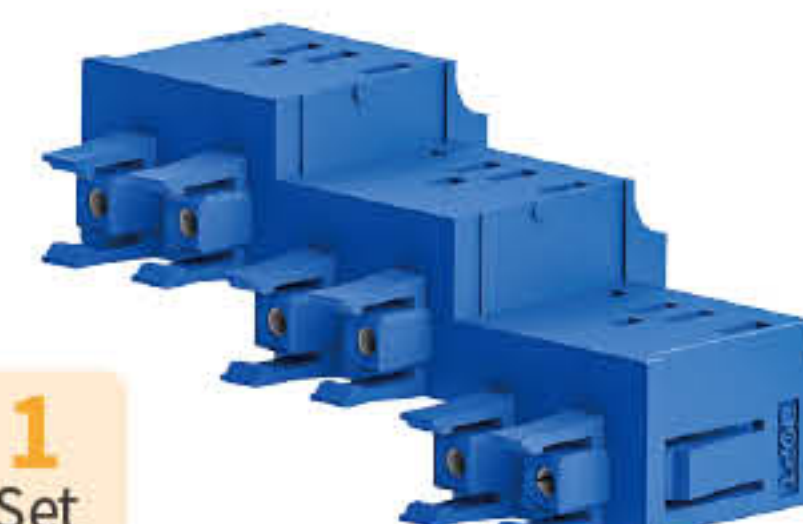
Center
Adapter Duplex



Right
Adapter Duplex



1
Set



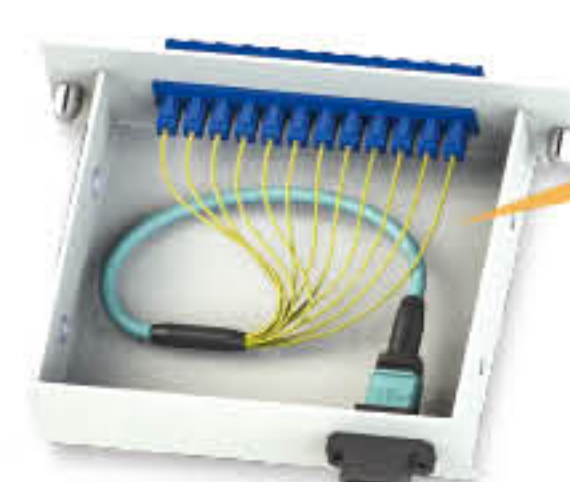
Maximizing Space Constraint



Micro LC Stackable
Adapters



Micro LC Snap-in
Connectors



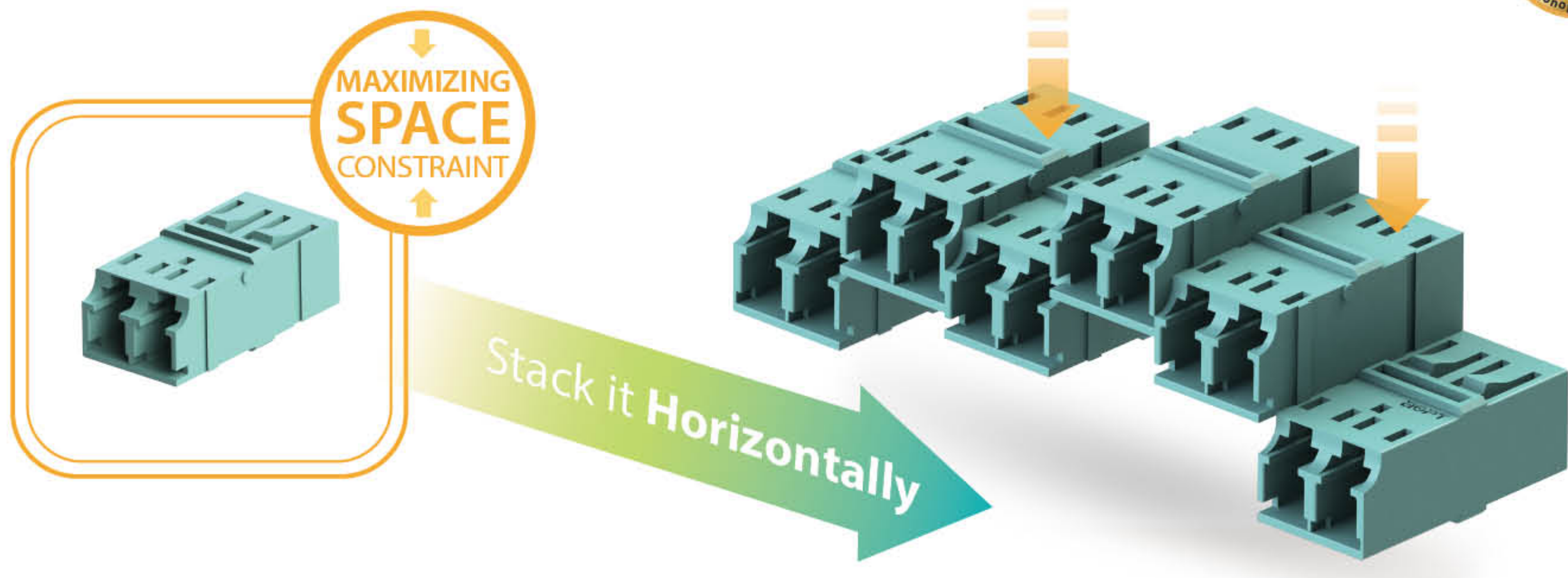
High Density
Cassette

Maximizing Space

High Density Cassette with Micro LC Snap-in Connector and Stackable Adapter



LC Stackable Adapter



Description

Introducing the new horizontally LC Stackable Adapters. The stackable design can effectively maximize your space to your customized application.

Features

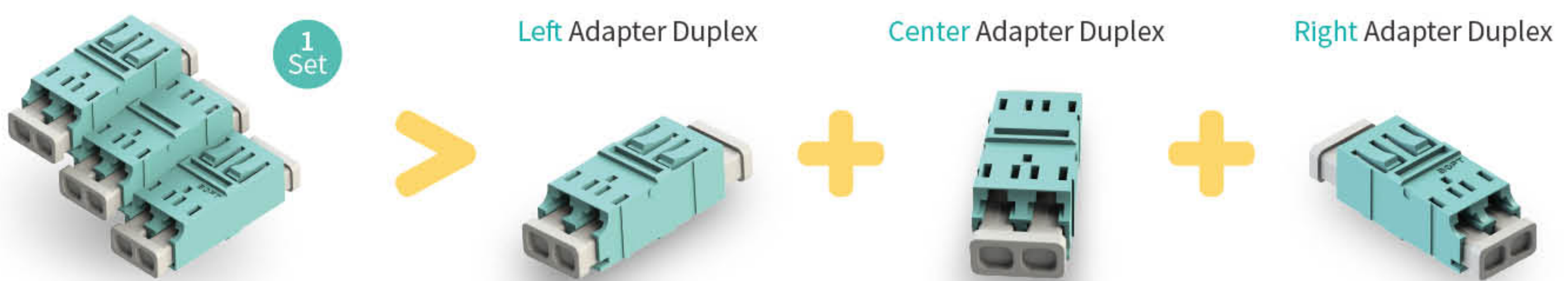
- Maximize space constraint for high-density solution
- One piece housing design without welding point enhances structure strength
- Snap-in design

Applications

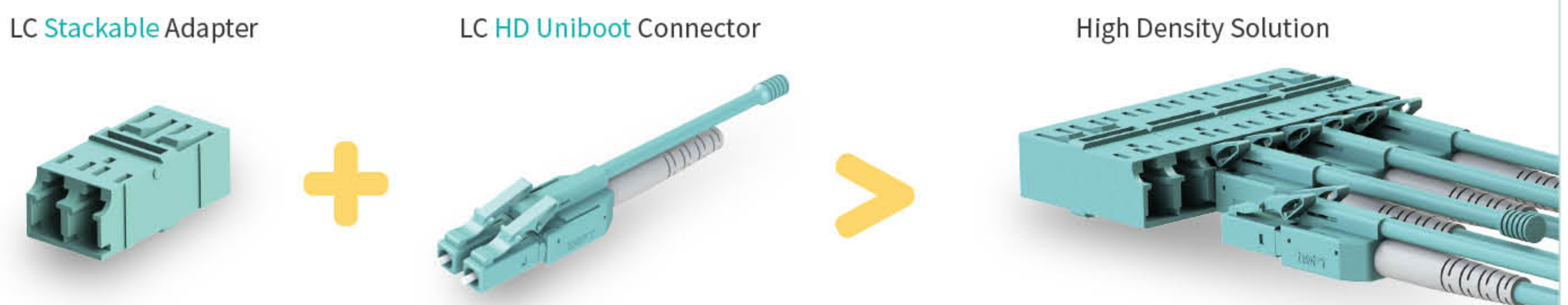
- Data communications
- Telecommunications
- Optical measurement instruments
- FTTx deployments
- 4G/LTE base station
- CATV

Blue	Aqua
Green	Erika Violet
Beige	Lime Green

LC Stackable Adapters



High Density Solution



LC Standard Adapter

Description

LC Adapters are manufactured with PEI material. Non-welded design enhances the structure durability and decreases probability of breakdown. Telcordia GR-326, IEC, RoHS2, REACH, UL94V-0 standard compliance also gives reliability.

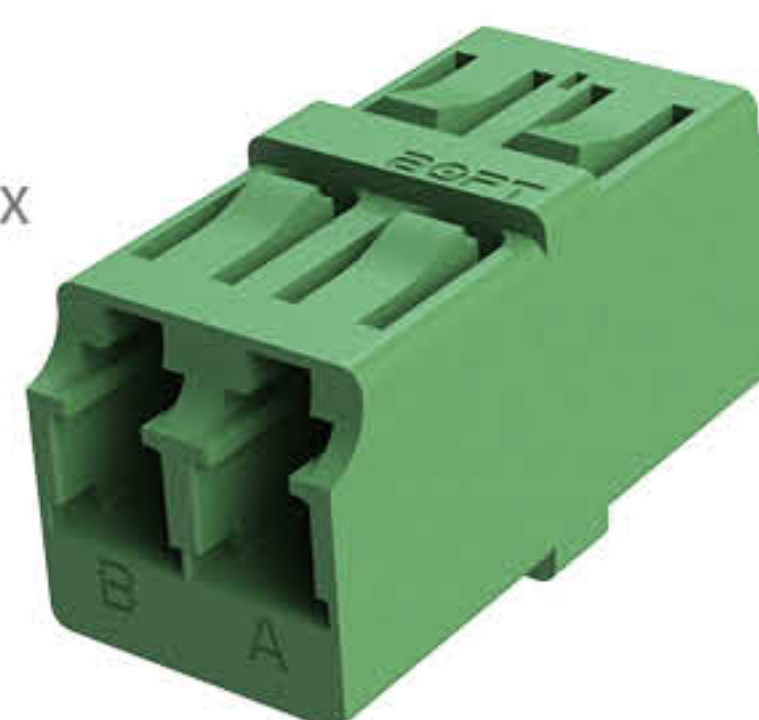
Features

- PEI requested for high intensity and chemical resistance. Its thermostability keeps non-flammable and high stability
- Snap-in connector design precises mechanical dimensions
- Reduce assembly time and simplifies training
- Reduces maintenance and creates consistent optical performance
- Stable performance
- Comply Telcordia GR-326, IEC, RoHS2, REACH, UL94V-0 standard

● LC Simplex



● LC Duplex



Applications

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

Blue	Aqua
Green	Erika Violet
Beige	Lime Green

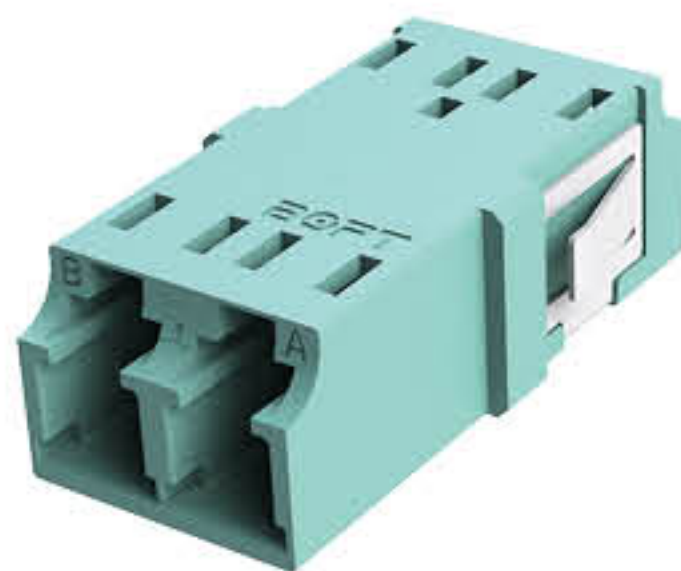
LC / SC Specification							
	Mode	Sleeve Type	Housing Type	Housing Color	Type	Standards	Other Requirement
LC	SM / APC MM	Zirconia Sleeve	Plastic Metal	Blue Beige Green Aqua Violet Lime green	Simplex Duplex Quad 8 Ports	IEC61754-20 IEC61754-4 TIA/EIA-604-10	*AA (Senior Senior) *AR (Senior Junior) AA SC type with Flange AA SC type Flangeless AR SC type with Flange AR SC type Flangeless AR type AA type SC Vertical type Inner Shutter
SC					Simplex Duplex Quad	JIS C5973 F04 EIA/TIA 604-3A IEC 60874-14-3 GR-326	With Flange Flangeless Shutter

LC One-Piece SC Footprint Adapter

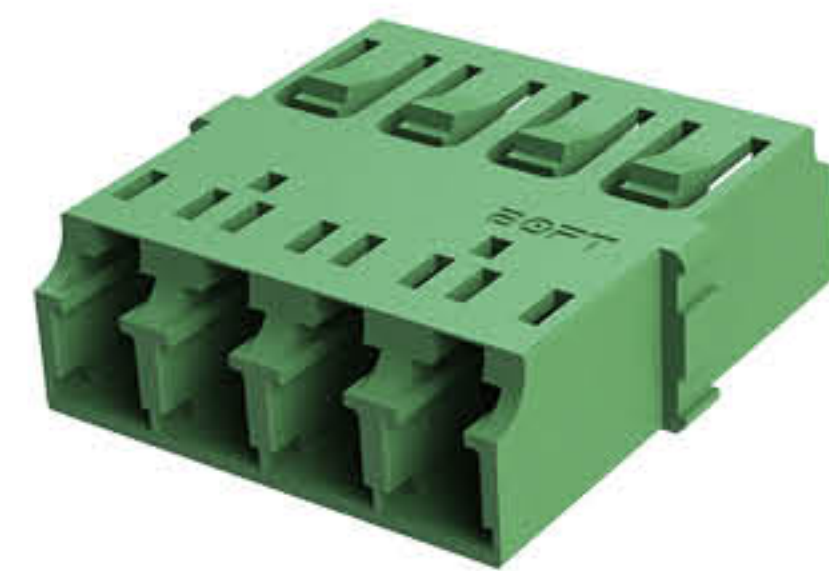
● LC SC Footprint Duplex Flange with Clip



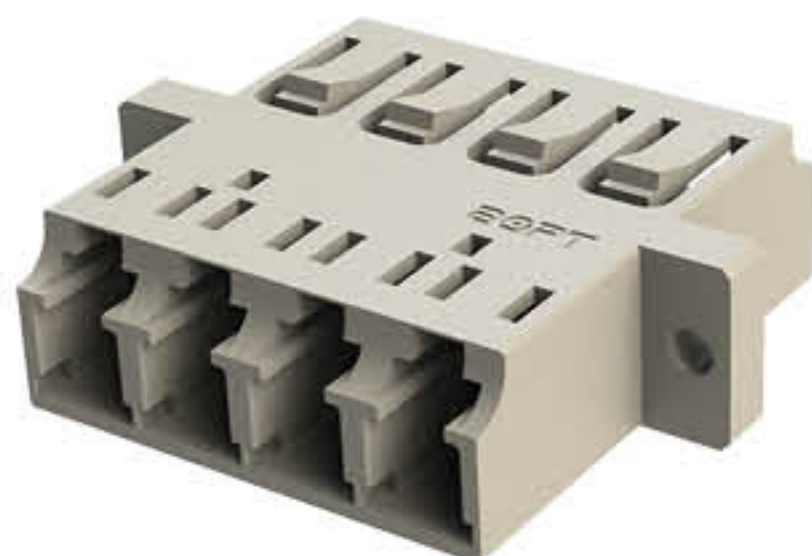
● LC SC Footprint Duplex Flangeless with Clip



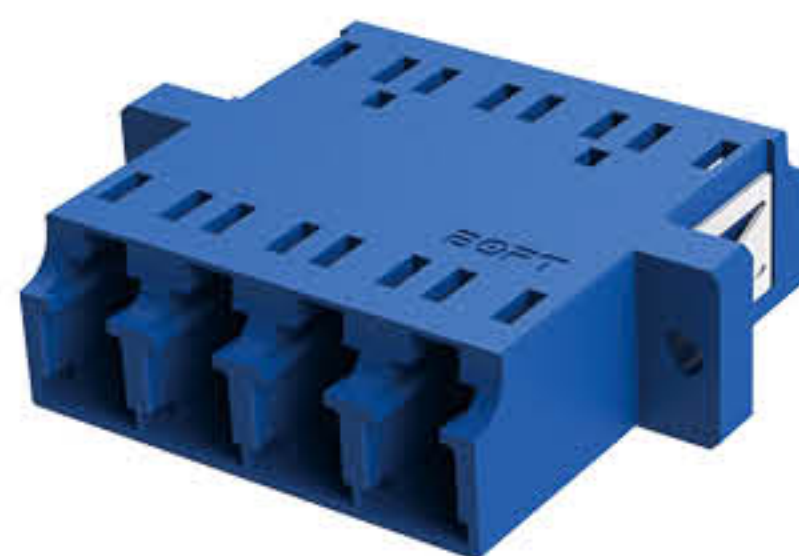
● LC SC Footprint Quad Flangeless



● LC SC Footprint Quad Flange



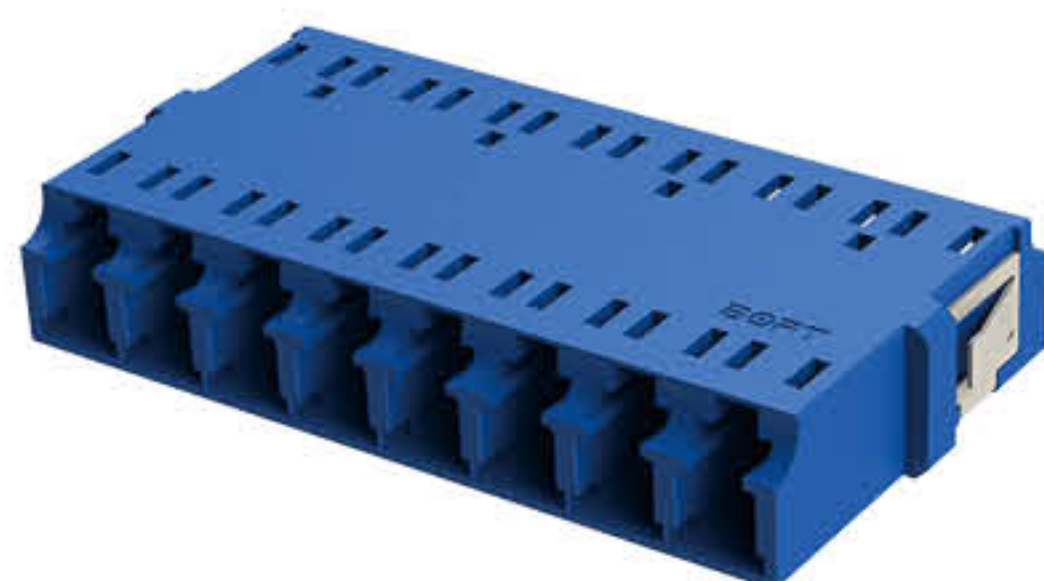
● LC SC Footprint Quad Flange with Clip



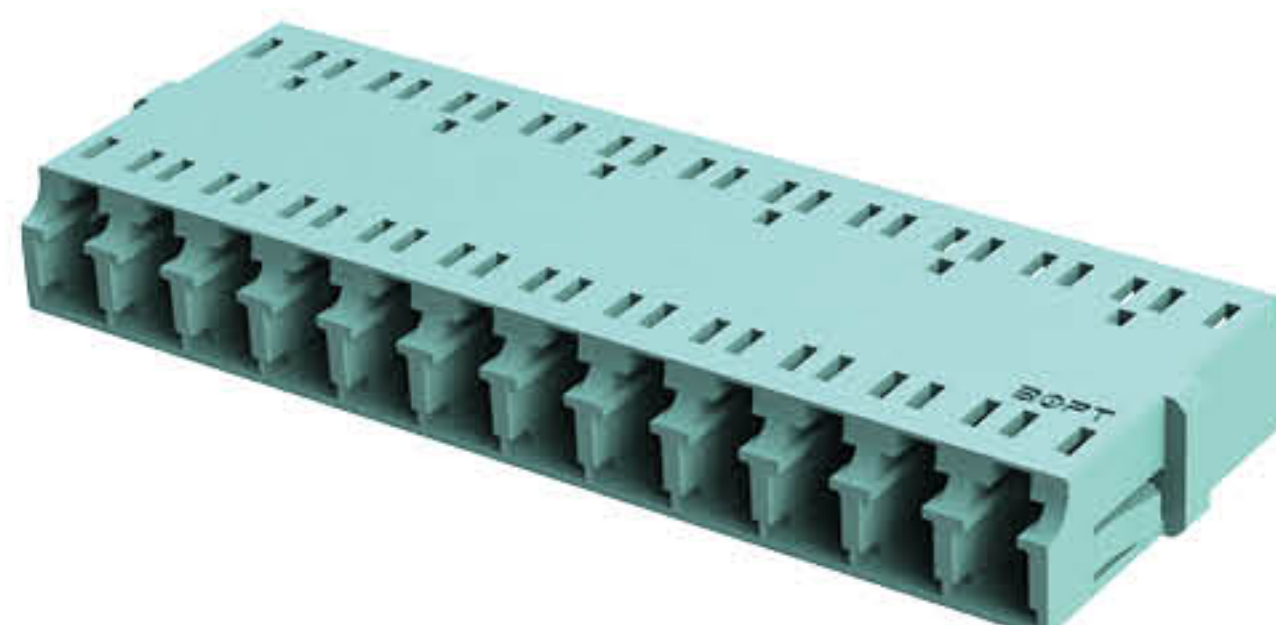
● LC SC Footprint Quad Flangeless with Clip



● LC SC Footprint 8 Port Flangeless with Clip



● LC SC Footprint 12 Port Flangeless



	Blue
	Green
	Beige
	Aqua
	Erika Violet
	Lime Green

Description

LC Adapters are manufactured with PEI material. Non-welded design enhances the structure durability and decreases probability of breakdown. Telcordia GR-326, IEC, RoHS2, REACH, UL94V-0 standard compliance also gives reliability.

Applications

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

Features

- PEI requested for high intensity and chemical resistance. Its thermostability keeps non flammable and high stability
- Snap-in connector design precises mechanical dimensions
- Reduce assembly time and simplifies training
- Reduces maintenance and creates consistent optical performance
- Stable performance
- Comply Telcordia GR-326, IEC, RoHS2, REACH, UL94V-0 standard
- Premium quad/8 ports Adapters satisfy high density demands

SC Adapter

● SC Simplex Flange with Clip



● SC Simplex Flangeless with Clip



● SC Duplex Flange with Clip



● SC Duplex Flangeless with Clip



● SC 4 Port



● SC Shutter Flange with Clip



● SC Shutter Flangeless with Clip



Blue
Green
Beige
Aqua
Erika Violet
Lime Green

Description

ACON OPTICS offers a broad range of SC one-piece Adapters for simplex, duplex and quad. Adapters are available in plastic, with flange or flangeless, and with metal chip and come with zirconia sleeves.

Features

- Premium one-piece type
- High precision alignment
- Shutter Adapter available

Applications

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

FC / ST Adapter

- FC D Type
- FC Double D Type
- FC Square Multi-Piece Type
- FC Square One-piece Type



FC Specification						
Mode	Sleeve Type	Housing Type	Type	Standard	Dust Cap Color	Other Requirement
SM / APC MM	Zirconia Sleeve	Metal	Simplex	JIS C 5970 F01 TIA / EIA-604-4 IEC61754-13	Green Clear Red	D type Double D type Double Ear D type One-Piece Square Mulit Piece Square

- ST Simplex
- ST Duplex



ST Specification						
Mode	Sleeve Type	Housing Type	Type	Standard	Dust Cap Color	Other Requirement
SM / APC MM	Zirconia Sleeve	Metal	Simplex Duplex	EIA / TIA-604-2 IEC61754-2	Yellow Black	With Flange Flangeless



MPO Internal Shutter Adapter

● MPO Internal Shutter Simplex 12F/24F/36F



● MPO Internal Shutter Simplex 16F/32F



● MPO Internal Shutter Duplex 12F/24F/36F



● MPO Internal Shutter Duplex 16F/32F



● MPO Internal Shutter Quad 16F/32F



Description

The ACON OPTICS MPO Internal Shutter Adapter is designed for ultimate performance in high-density environments. Its internal shutter offers superior protection against dust and laser exposure, ensuring safe, reliable connections. With a robust design and compact profile, it is the perfect solution for modern data centers, telecommunications networks, and harsh environments.

Features

- Internal Shutter for dust and laser protection.
- Compatible with SC footprint.
- No dust cap required on shutter side.
- Supports key-up/key-down and key-up/key-up orientations.
- Snap-In design for quick and easy installation.

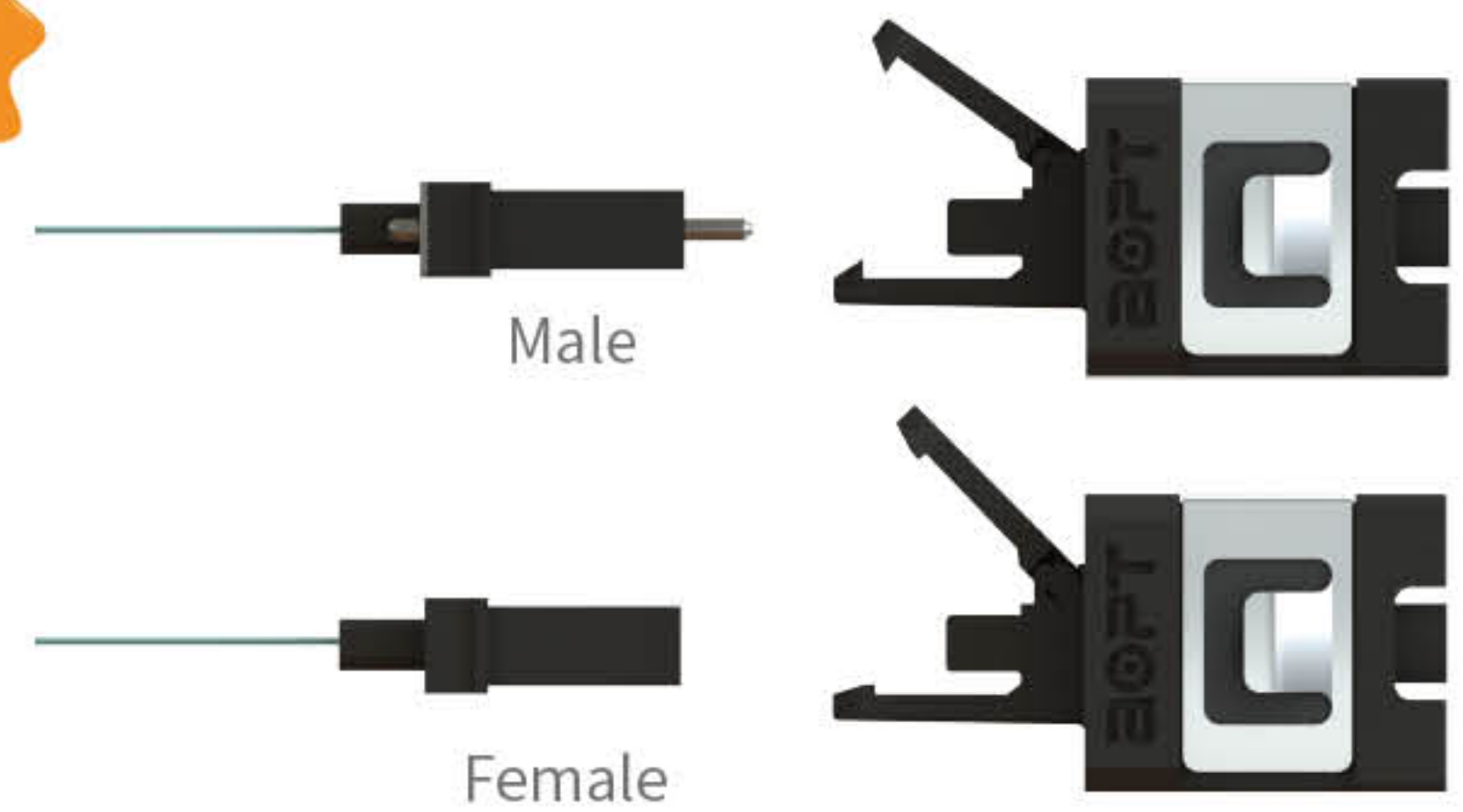
Applications

- Artificial Intelligence (AI)
- High-Performance Computing (HPC)
- Data center
- Telecommunications
- FTTx deployments
- WDM networks

MT-MPO Pro Adapter



Male VS. Female Type Comparison



Description

ACON OPTICS is featuring a revolutionary MT- MPO PRO Adapter which has the flexible flap design making ease of connecting and disconnecting MT ferrules. It is the best solution for BTW and high density applications.

Applications

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

Features

- Hybrid Adapter accommodates MT ferrule and MPO connector.
- One piece housing design without welding point enhances structure strength.
- Design makes connecting and disconnecting MT ferrule simple and straightforward.
- The best option for BTW application and high density solution.

Black	Aqua
Blue	Erika Violet
Green	Lime Green
Beige	

Instructions Guide

1 Open the flap	2 Insert the MT ferrule	3 Close the flap
4 Open the flap	5 Remove the MT ferrule	6 Done

MPO Adapter

MPO Standard Adapter



MT-MPO



MPO SC Footprint Flange



MPO SC Footprint Flangeless



MPO SC Footprint Flange with Clip



MPO SC Footprint Flangeless with Clip



MPO SC Footprint Duplex Flange



MPO SC Footprint Duplex Flangeless with Clip



Description

ACON OPTICS singlemode or multimode MPO Connectors and Adapters are suitable for high-density back panel applications in data and telecommunications systems. Available in a variety of housing colors plus other options upon request.

Features

- Compliant to IEC and TIA standards
- Available in key-up to key-down and key-up to key-up
- High precision alignment
- Low insertion, high return loss and back reflection

Applications

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

	Black		Aqua
	Blue		Erika Violet
	Green		Lime Green
	Beige		

MPO Adapter Specification			
Adapter Type	Flange Type	Key Orientation	Housing Color
Standard Simplex SC Simplex Footprint SC Duplex Footprint MT-MPO Simplex	with Flange Flangeless	Aligned Opposed	Black Aqua Blue Green Beige Violet Lime green

SC / FC / LC / ST Hybrid Adapter

SC-ST Hybrid



SC-FC Hybrid



SC-FC Hybrid



SC-ST Hybrid



LC-ST Hybrid



LC-FC Hybrid



SC-LC Hybrid



FC-ST Hybrid



Description

ACON OPTICS offers a variety of hybrid Adapters, including the FC, ST, SC, LC series. These Hybrid Fiber Adapters are available in simplex or duplex types and metal or plastic for housing option. They come with high precision alignment zirconia sleeves for reliability and better reconnectability and are widely used when connecting different types of fiber optic connectors together in a fiber optic link.

Features

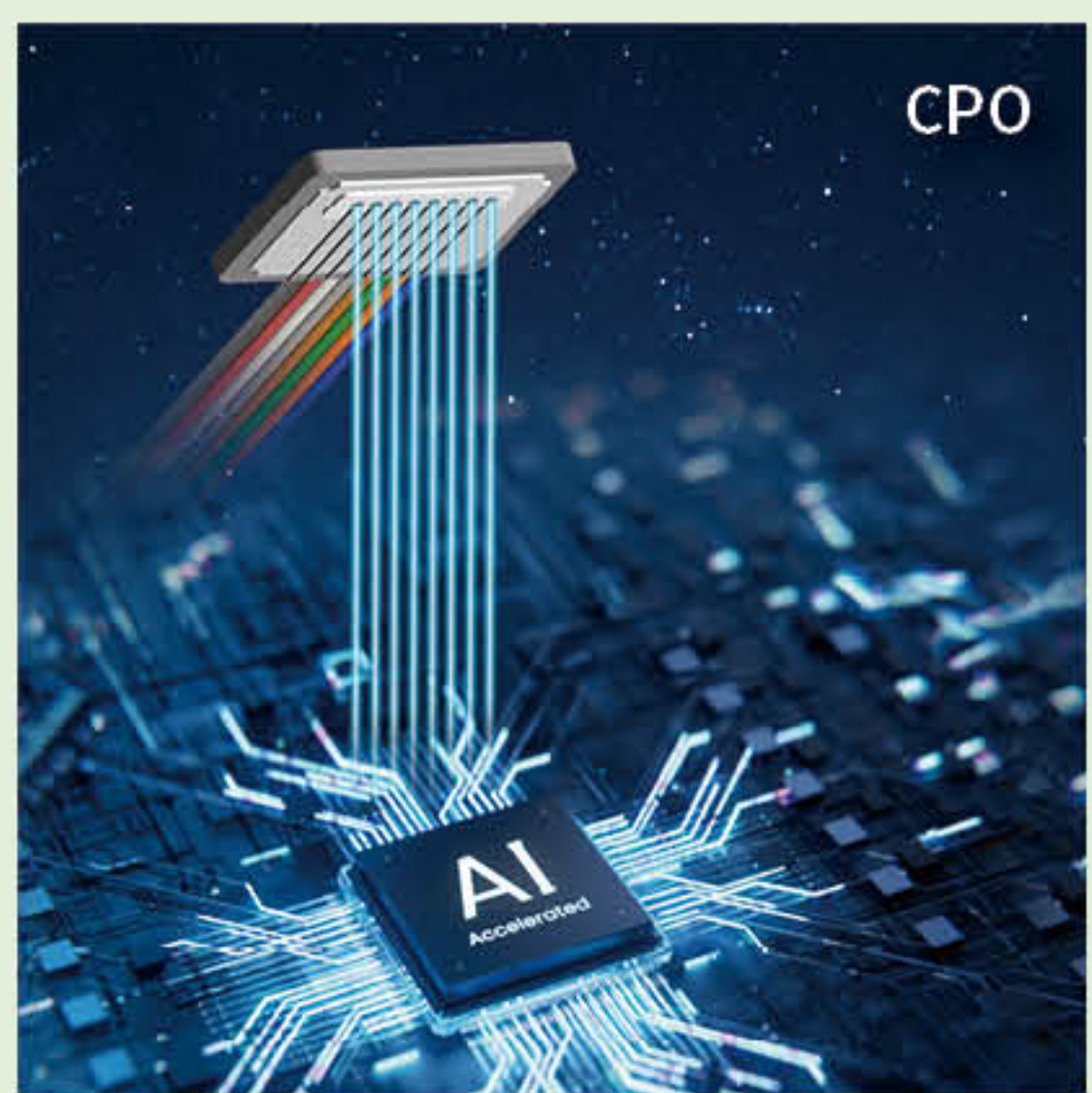
- High-precision zirconia sleeve and mechanical dimensions
- Good reliability & stability
- Available in simplex and duplex types
- Available in metal and plastic housing

Applications

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

Hybrid Adapter Specification

Connector 1	Connector 2	Sleeve Type	Type	Housing Type	Dust Cap Color
SC FC LC ST	SC FC LC ST	Zirconia Sleeve	Simplex Duplex	Metal Plastic	Blue Beige Black Clear Green Red Yellow



Patchcord

LC / SC / FC / ST / MU

LC / SC / FC / ST / MU52

Pre-terminated

SC Pushable Patchcord53

SC Pulling Eye Patchcord53

PLC

PLC Series53

MPO / MTP

MPO / MTP Patchcord54

Breakout / Drop

Breakout Cable55

Drop Cable55

FTTA

FTTA Hybrid Patchcord56

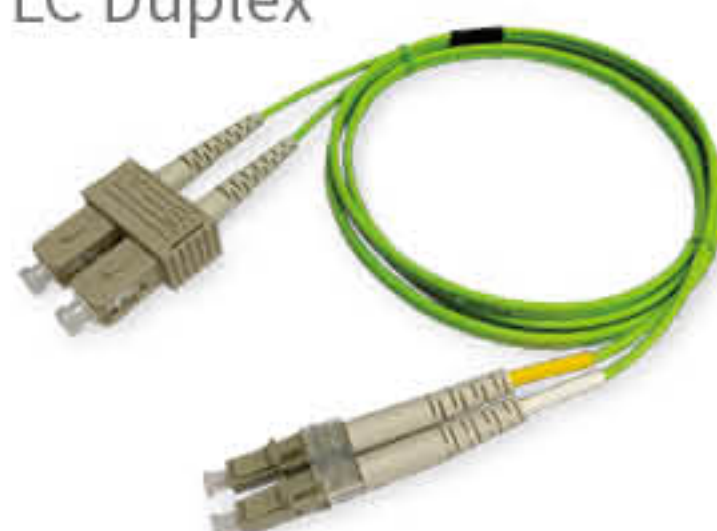
FTTA Solution56

LC / SC / FC / ST / MU Patchcord

● LC Duplex



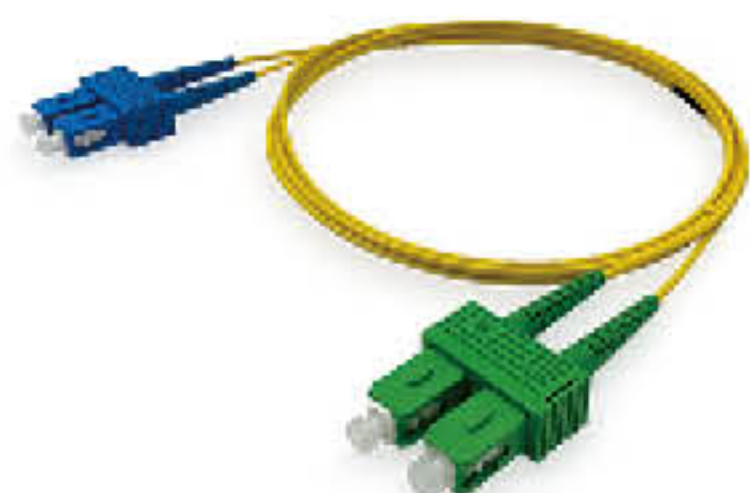
● SC - LC Duplex



● ST



● SC Duplex



● SC - ST Duplex



● LC Simplex



● SC Simplex



● FC



Small Form LC / MU Specification

	Product	Mode	Jacket Type	Connector Type	Cable Type	Cable Diameter
LC	Patchcord Pigtail	SM G652D	PVC (OFNR) PVC (OFNP) LSZH LSZH(OFNR)	LC / PC LC / APC	Simplex Duplex Zipcord Duplex Round	0.9
		SM G657 A1				1.2
		SM G657 A2				1.4
		SM G657 B3				1.6
		OM1 (62.5/125)				1.8
		OM2 (50/125)				2.0
		OM3 (50/125)				2.4
		OM4 (50/125)		N/A	N/A	3.0
MU		OM5 (50/125)				N/A

SC / FC / ST Specification

	Product	Mode	Jacket Type	Connector Type	Cable Type	Cable Diameter
SC	Patchcord Pigtail	SM G652D	PVC (OFNR) PVC (OFNP) LSZH LSZH(OFNR)	SC / PC	Simplex Duplex Zipcord Duplex Round	0.9
		SM G657 A1		SC / APC		1.2
		SM G657 A2				1.4
FC		SM G657 B3		SC / PC		1.6
		OM1 (62.5/125)		SC / APC		1.8
		OM2 (50/125)				2.0
		OM3 (50/125)		ST		2.4
ST		OM4 (50/125)				3.0
		OM5 (50/125)				

Pre-terminated Patchcord

- SC Pushable Patchcord
- SC Pulling Eye Patchcord



Applications

- FTTx indoor/outdoor cable
- Telecoms
- DAS

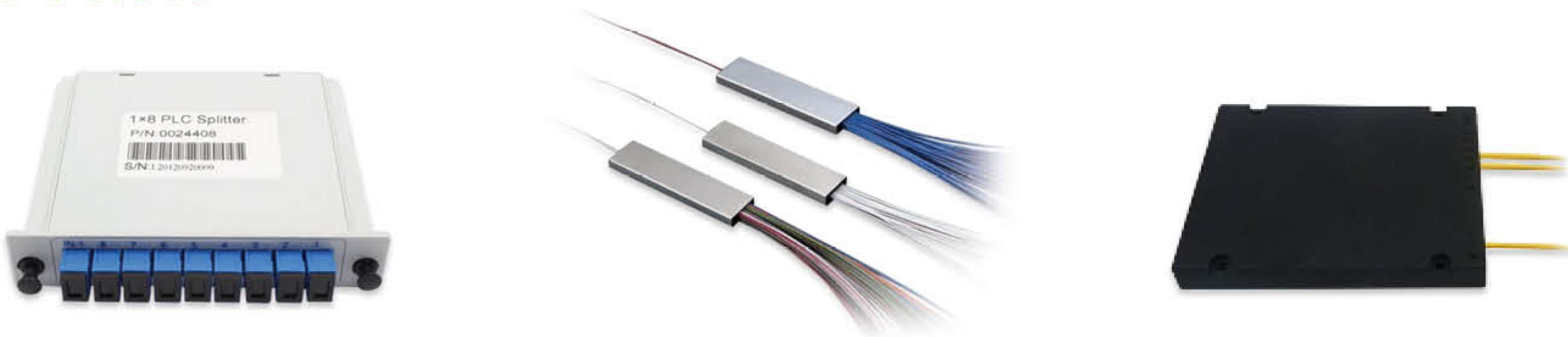
Description

A simple and costs effective optical fiber assembly deployment that is easy to use without compromising the optical fiber integrity or reliability.

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

PLC Series



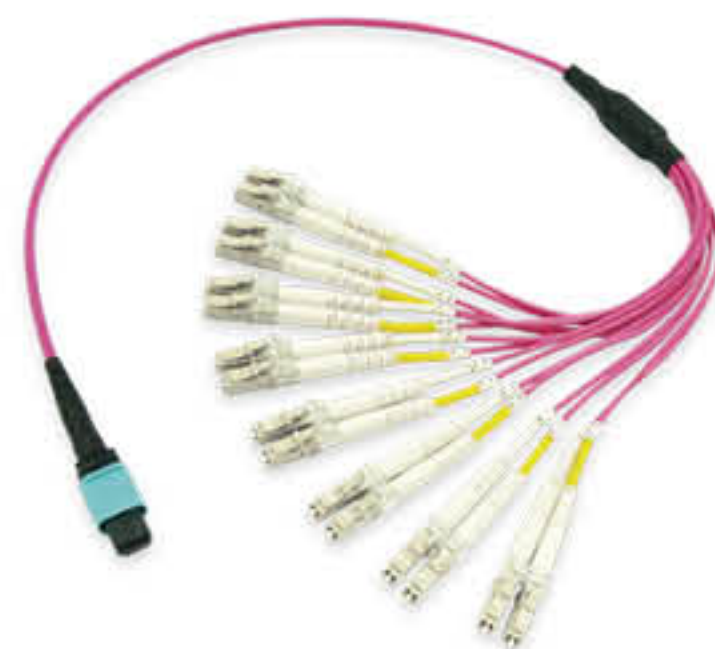
PLC Specification							
Product	Port Number	Wavelength (mm)	Connector	PLC Ratio	Fiber (mm)	Package	Steel Tube
Standard	1x2	1310 & 1550	SC / APC	AS Demand	0.9 2.0 Bare	Steel Tube ABS Box	50mm Box
	1x4						
WDM	1x6		SC / PC with white mark				
	1x8						
Single Window Wideband Coupler	1x10		SC / APC with white mark				
	1x12						
Dual Window Wideband Standard (MM)	1x14		SC / PC with white mark				
	1x16						
WDM (MM)	1x18		LC / APC				
	1x20						
Single Window Wideband Coupler (MM)	1x22	FC / PC					
	1x24						
Dual Window Wideband (MM)	1x32						
	2x32						
	4x4						
	8x8						

MPO / MTP Patchcord

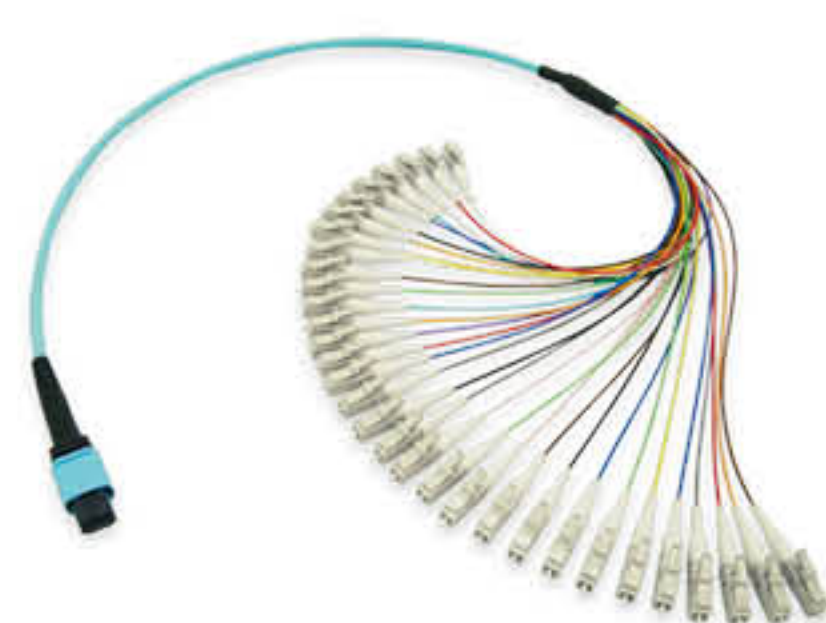
● MPO/MTP Patchcord



● MPO-LC 16F Fan-out



● MPO-LC 32F Fan-out



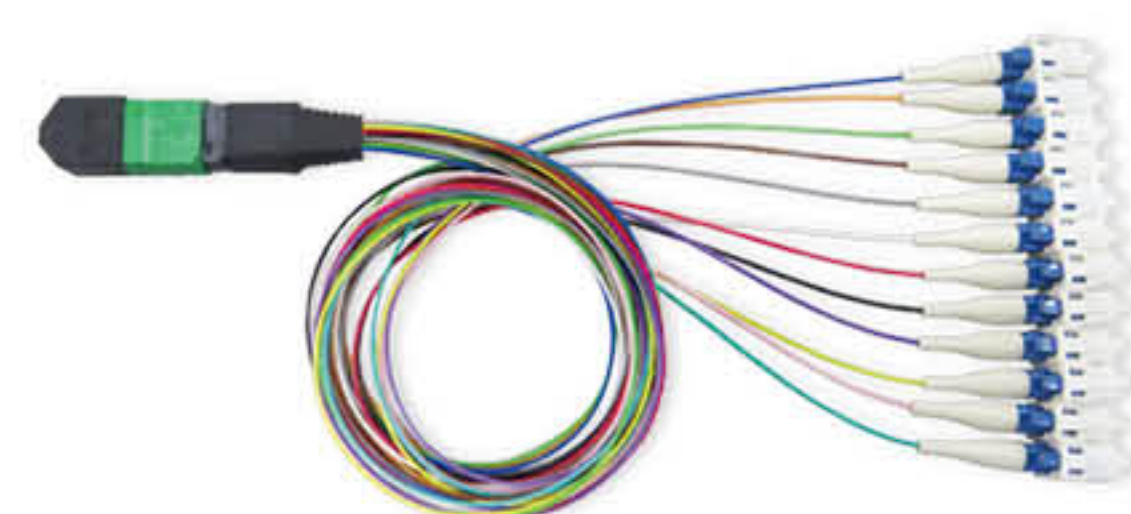
● MTP-LC Uniboot



● MTP-LC Hydra



● MPO-LC Hydra



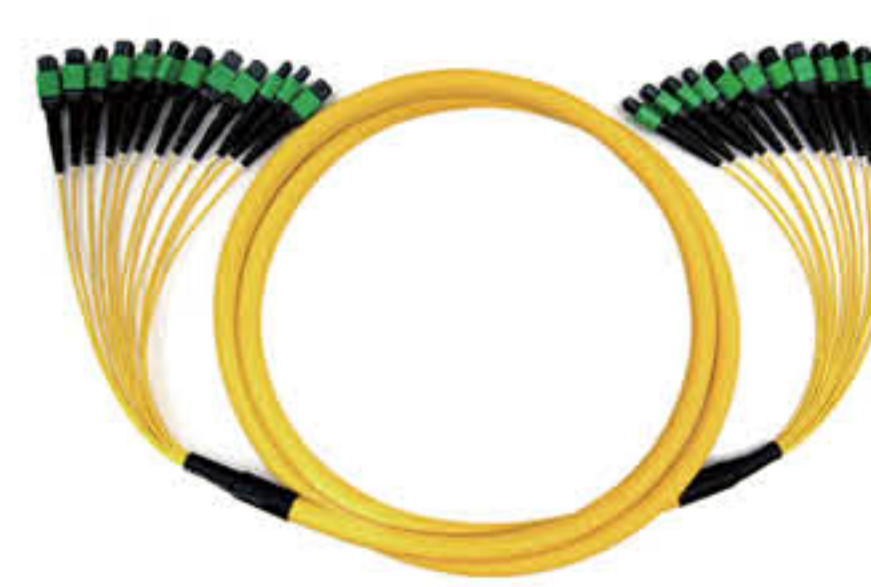
● MTP-LC 24F Hydra-Mini Branch



● MTP-DLC



● Trunk Cable



MPO / MTP® Specification

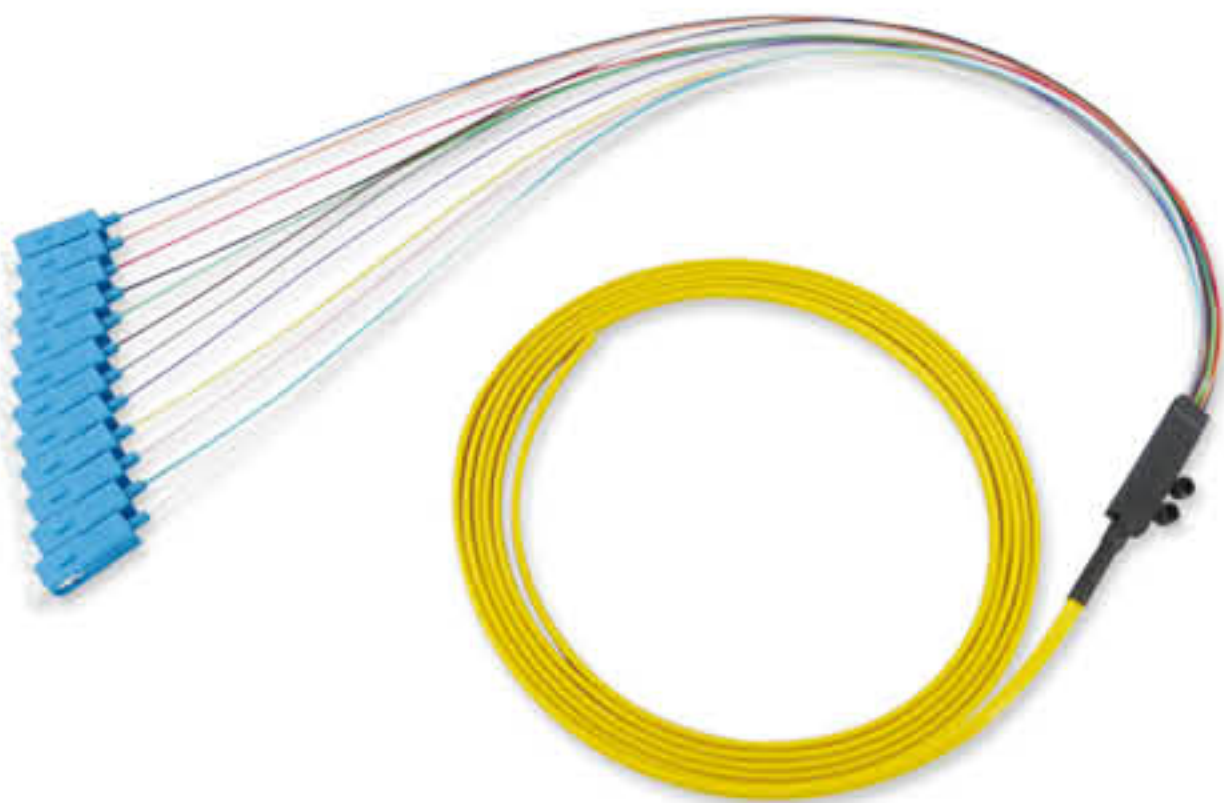
Description	Specification		Conditions
Insertion Loss	MPO	SM : ≤ 0.75 dB MM : ≤ 0.6 dB	SM $\lambda = 1310/1550$ nm MM $\lambda = 1300/850$ nm
	MTP®	SM : ≤ 0.5 dB MM : ≤ 0.5 dB	
	MPO Low Loss MTP Elite®	SM : ≤ 0.35 dB MM : ≤ 0.35 dB	
Return Loss	SM : ≥ 60 dB		SM $\lambda = 1310/1550$ nm

MPO / MTP® Specification

Connector Type	Mode	Cable Type	Jacket Type	Cable Diameter (mm)
MPO / MTP Male MPO / MTP Female MPO Low Loss Male MPO Low Loss Female MTP Elite Male MTP Elite Female	SM G652D SM G657 A1 SM G657 A2 SM G657 B3 OM1 (62.5/125) OM2 (50/125) OM3 (50/125) OM4 (50/125) OM5 (50/125)	8-Fiber 12-Fiber 16-Fiber 24-Fiber 32-Fiber	PVC (OFNR) PVC (OFNP) LSZH LSZH(OFNR)	Bare Ribbon Ribbon 2.5 x 5.0 Round 2.0 / 2.6 / 3.0 / 3.5

Breakout / Drop Patchcord

- Breakout Cable
- Ribbon Type Breakout Cable



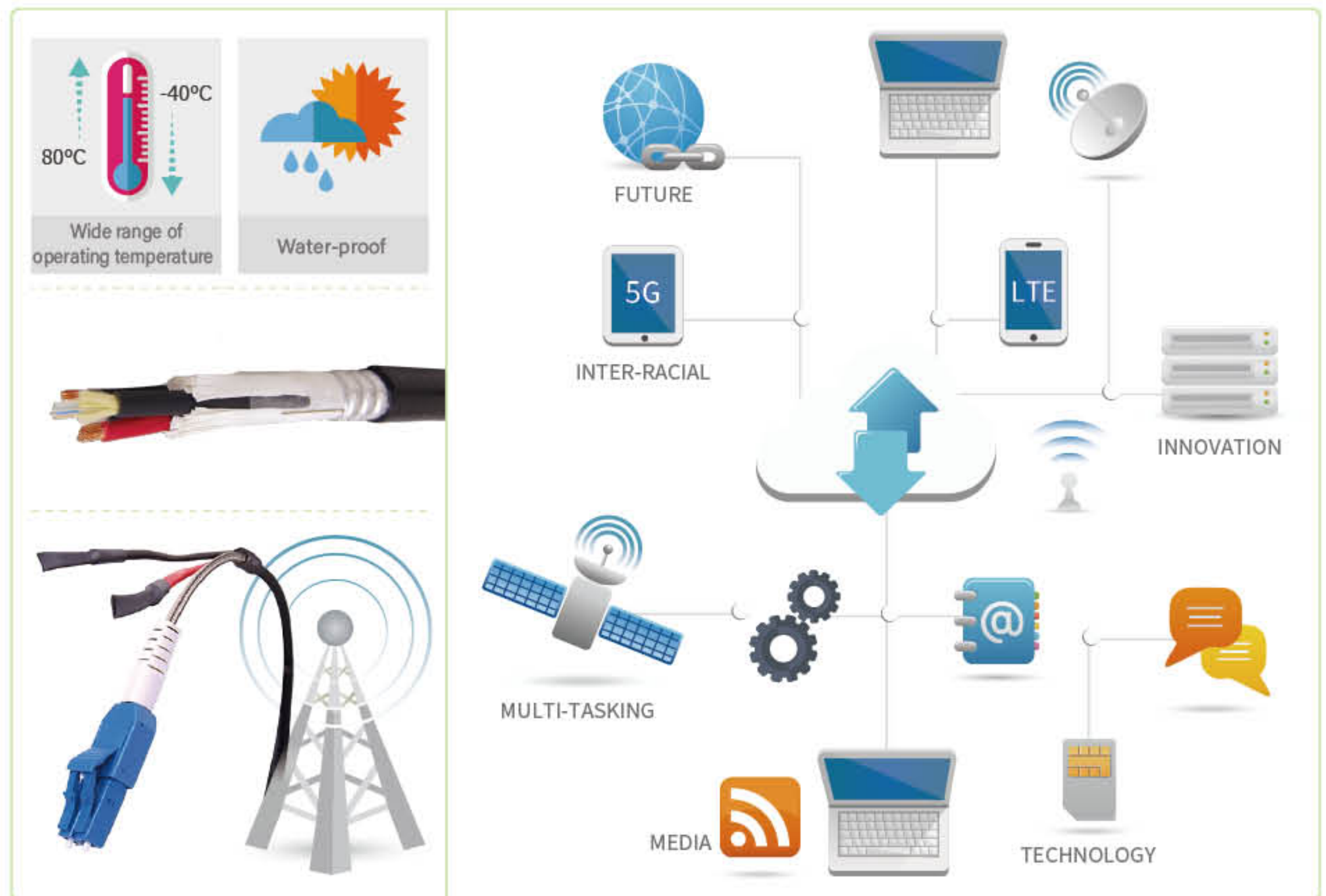
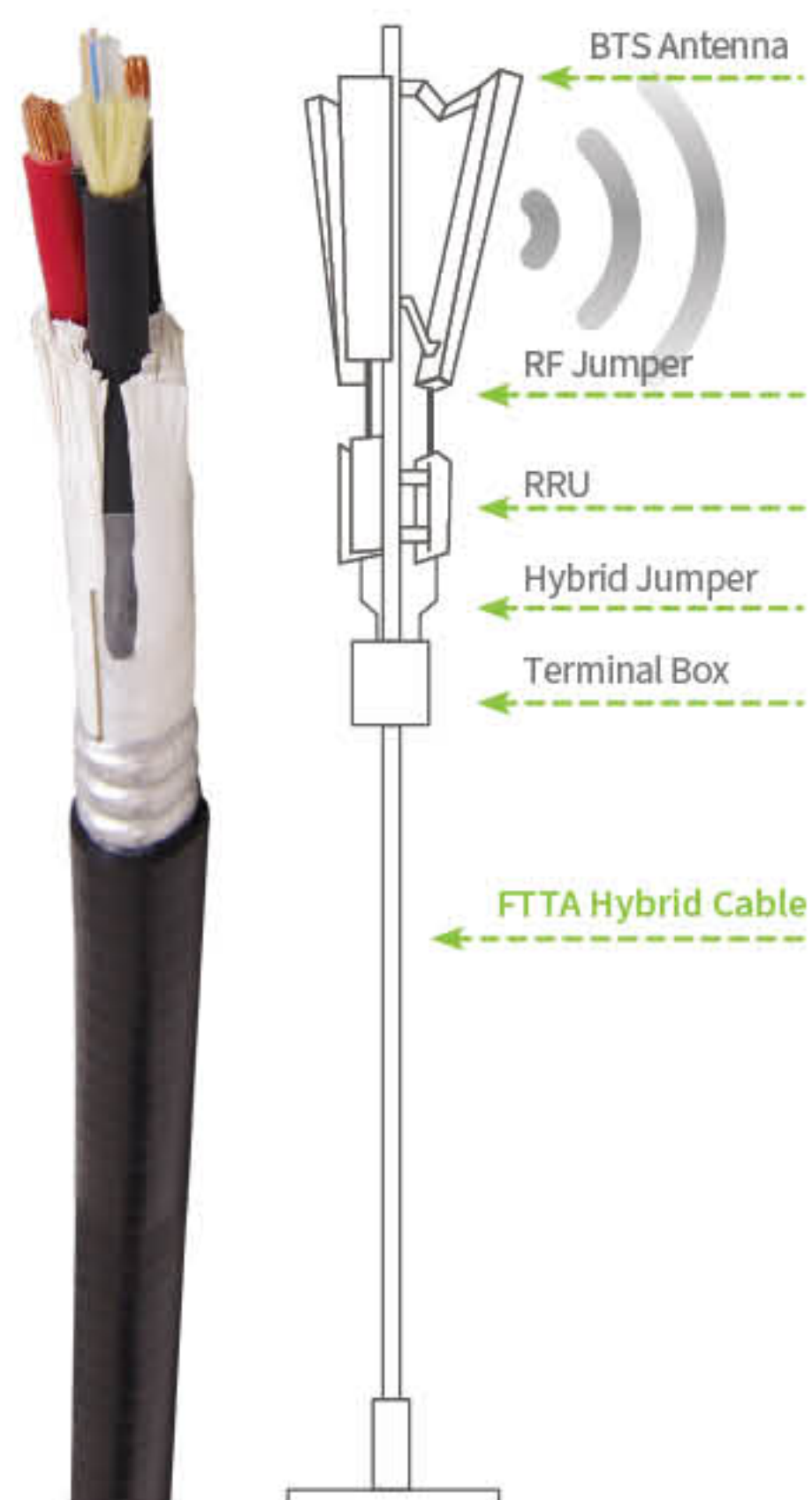
Multi-Fiber Breakout Specification							
Product	Mode	Connector Type	Jacket Type	Cable Type			Cable Diameter
Patchcord Pigtail	SM G652D	LC / PC	PVC (OFNR) PVC (OFNP) LSZH LSZH(OFNR)	4-Fiber	Round Ribbon	Tight Buffer	3.0
	SM G657 A1	LC / APC		6-Fiber			3.5
	SM G657 A2	SC / PC		8-Fiber			5.2
	SM G657 B3	SC / APC		12-Fiber			6.5
	OM1 (62.5/125)	FC / PC		16-Fiber		Loose Tube (Easy Stripped)	7.0
	OM2 (50/125)	FC / APC		18-Fiber			8.5
	OM3 (50/125)	ST		24-Fiber			2.5*5.0
	OM4 (50/125)	MU		36-Fiber			
	OM5 (50/125)			48-Fiber			
				96-Fiber			
				144-Fiber			
				Customized			

- SC Simplex Drop Cable
- LC Duplex Drop Cable
- ST Simplex Drop Cable



Drop Cable Specification						
Product	Mode	Connector Type	Jacket Type	Cable Type		Cable Diameter
Patchcord Pigtail	SM G652D	LC / PC	LSZH FRPE	Simplex Duplex	Tight Buffer	2.0 x 1.6
	SM G657 A1	LC / APC			Loose Tube (Easy Stripped)	2.0 x 3.0
	SM G657 A2	SC / PC				5.3 x 2.0
	SM G657 B3	SC / APC				
	OM1 (62.5/125)	FC / PC				
	OM2 (50/125)	FC / APC				
	OM3 (50/125)					
	OM4 (50/125)					

FTTA Hybrid Patchcord



Description

The ACON OPTICS new FTTA Hybrid Patchcord, combined with copper wire and optical fiber in an unicable, supporting power and data transmission at the same time. It's waterproof and flame resistant.

Features

- Three cladding fully protect the fiber
- Cable type for choice (7.0/4.8/3.5mm /customized diameter)
- PVC/LSZH/Armored cable for choice
- Pulling-eye addition enhances protection
- Braid sleeve and pulling-eye addition, more convenient and protective
- Hybrid cable construction, makes more efficiently and high quality operation

FTTA Solution

- FTTA Cable with Mesh Cover



- FTTA Cable with Angled Boot



- FTTA Cable with Pulling-Eye + PVC Tube



- Armoured Cable



Description

To keep pace with the ever-growing demand for bandwidth in the 5G era, ACON OPTICS FTTA solution provides customers with high-quality broadband capabilities while eliminating the need for building expensive infrastructures.

Features

- GR-326-Core & RoHS2 compliant
- Smarter termination process
- Compact pull-proof design
- High precision alignment
- Reducing maintenance and creating consistent optical performance
- Pulling eye addition enhances protection
- Ruggedized, water-proof connector
- Cable type for choice

Applications

- 4G/LTE, 5G base station

Attenuator

LC / SC / FC

LC / SC / FC Attenuator 58



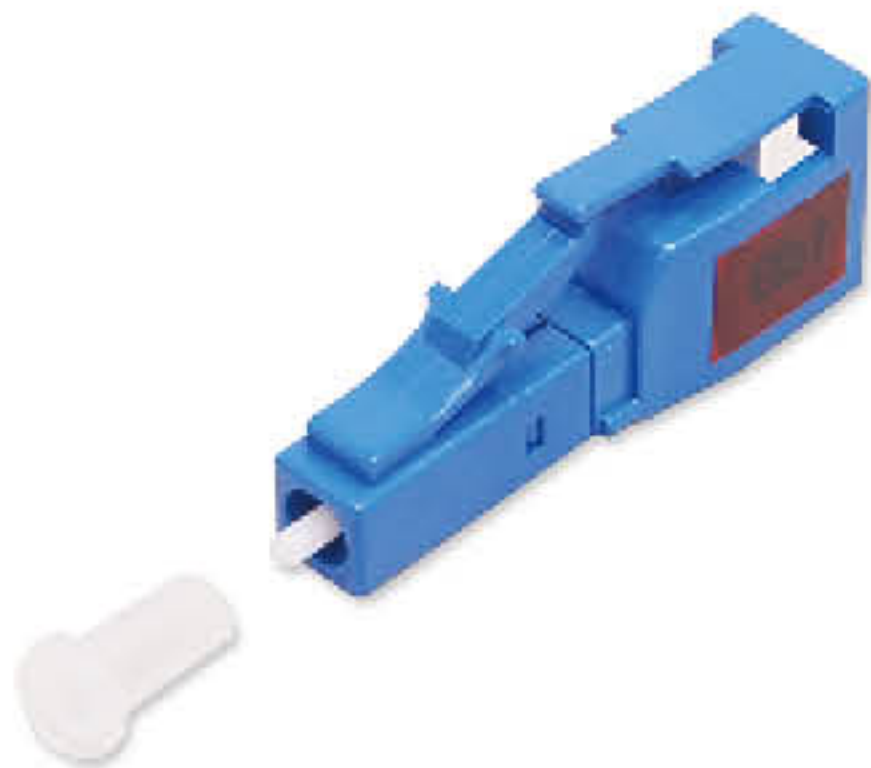
LOOPBACK

LC / SC / MPO

LC / SC / MPO Loopback 59

Attenuator LC / SC / FC

● LC Attenuator - LC/PC



● SC Attenuator - SC/PC



● SC Attenuator - SC/APC



● FC Attenuator - FC/PC



● FC Attenuator - FC/APC



Description

ACON OPTICS high quality and performance Attenuators are designed to give accurate attenuation over a wide range of wavelengths. The male-female plug type configuration can be used directly on the end of a patch cord, which in turn can insert directly into an adaptor. Available in LC, SC, FC, ST and MU connector styles with PC or APC finish, Attenuators providing ultra-low return loss and are available from 1dB to 40dB.

Features

- Excellent environmental stability
- Attenuation stability
- Excellent return loss
- Polarization insensitive
- Easy installation
- Telcordia GR-910-core requirement
- Bandwidth : 1310 / 1550±40nm / IL 1~5dB±0.75dB / 6~10dB±10dB / 11~15dB / 16~20dB±15% dB / >20dB

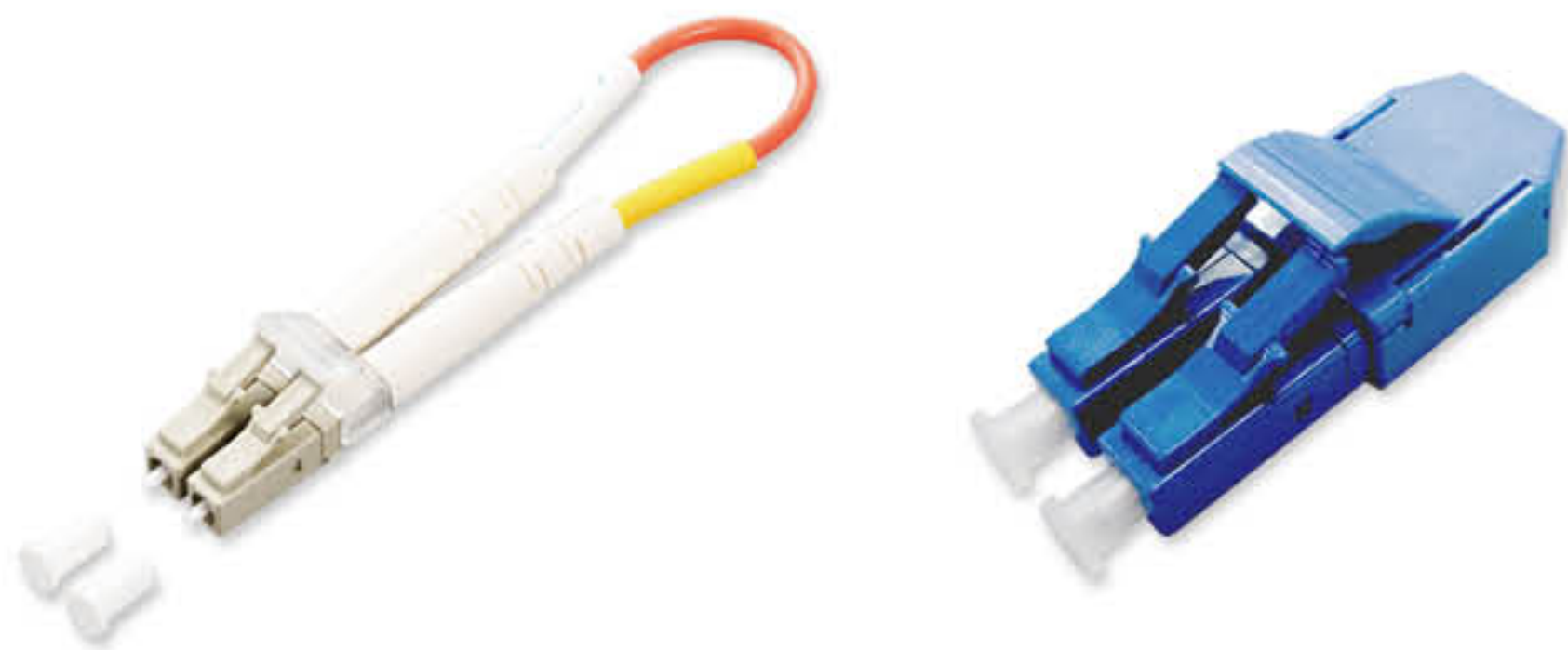
Applications

- LAN & WAN
- Telecommunication networks
- Fiber optic sensors
- Test & Measurement
- FTTx
- CATV

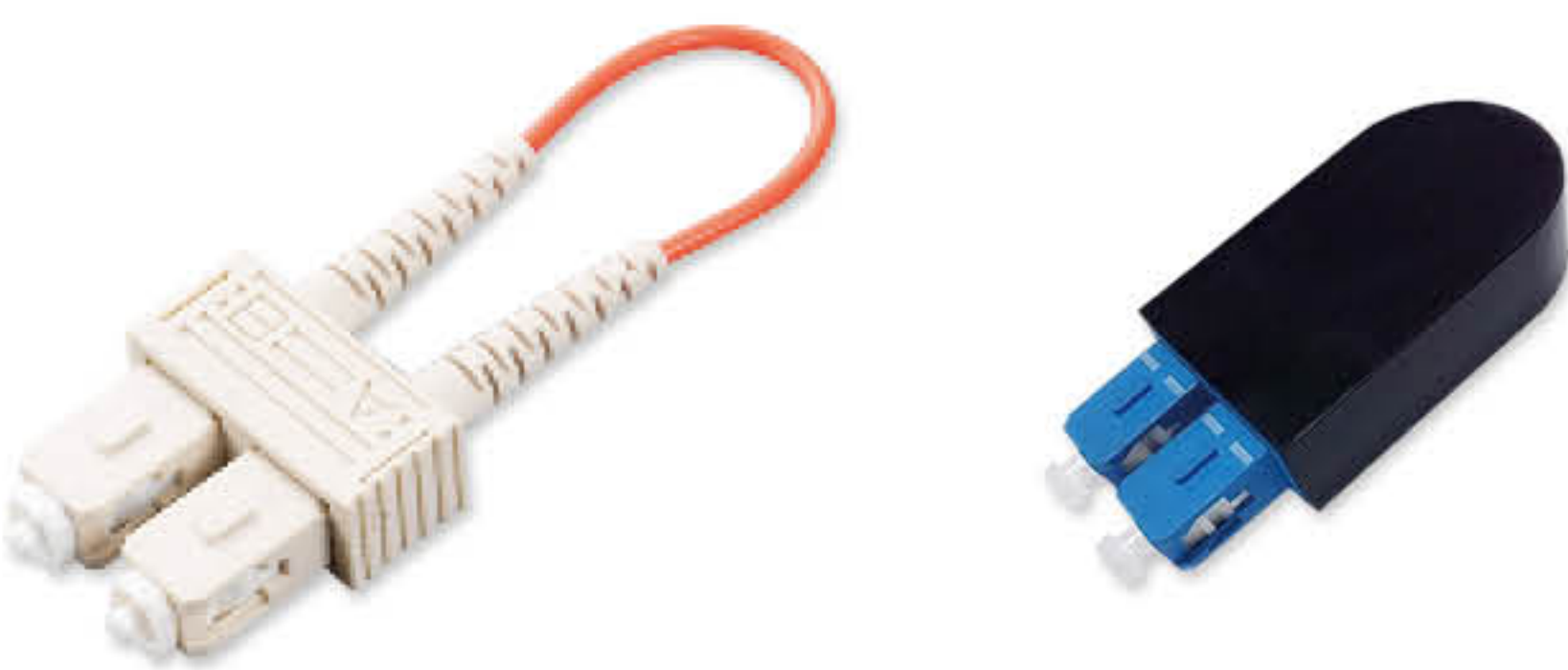
Attenuator Specification			
Connector Type	Attenuation Values (dB)		Wavelength (nm)
LC / PC LC / APC SC / PC SC / APC FC / PC FC / APC ST MU	0	10	1310/1550nm(SM)
	1	11	
	2	12	
	3	13	
	4	14	
	5	15	850/1300nm(MM)
	6	16	
	7	17	
	8	18	
	9	19	
		20	

Loopback LC / SC / MPO

- LC Loopback
- LC Loopback with Shell



- SC Loopback
- SC Loopback with Shell



- MPO Loopback
- MPO Loopback with Shell



Description

Fiber OPTICS Loopbacks is typically used for fiber optic testing applications or network restorations. It can detect potential bug by testing signal return of network or system.

Features

- Compact design
- Precise attenuation value
- High durability and low loss performance
- Available in singlemode and multimode

Applications

- Instrumentation
- Telecommunication networks
- Local area networks (LAN)
- Wide area networks (WAN)
- Data processing networks
- CATV

Loopback Specification					
Mode	Connector Type	DB Type	Shell Color	Jacket Type	Diameter (mm)
SM G657 A2	LC / PC Duplex SC / PC Duplex MPO MTP	0dB SM	Black	PVC (OFNR)	0.25
SM G657 B3		1dB	Blue(LC)	PVC (OFNP)	0.6
OM1 (62.5/125)		2dB	Beige(LC)	LSZH	0.9
OM2 (50/125)		0dB MM	Aqua(LC)	LSZH (OFNR)	2.0
OM3 (50/125)					3.0
OM4 (50/125)					

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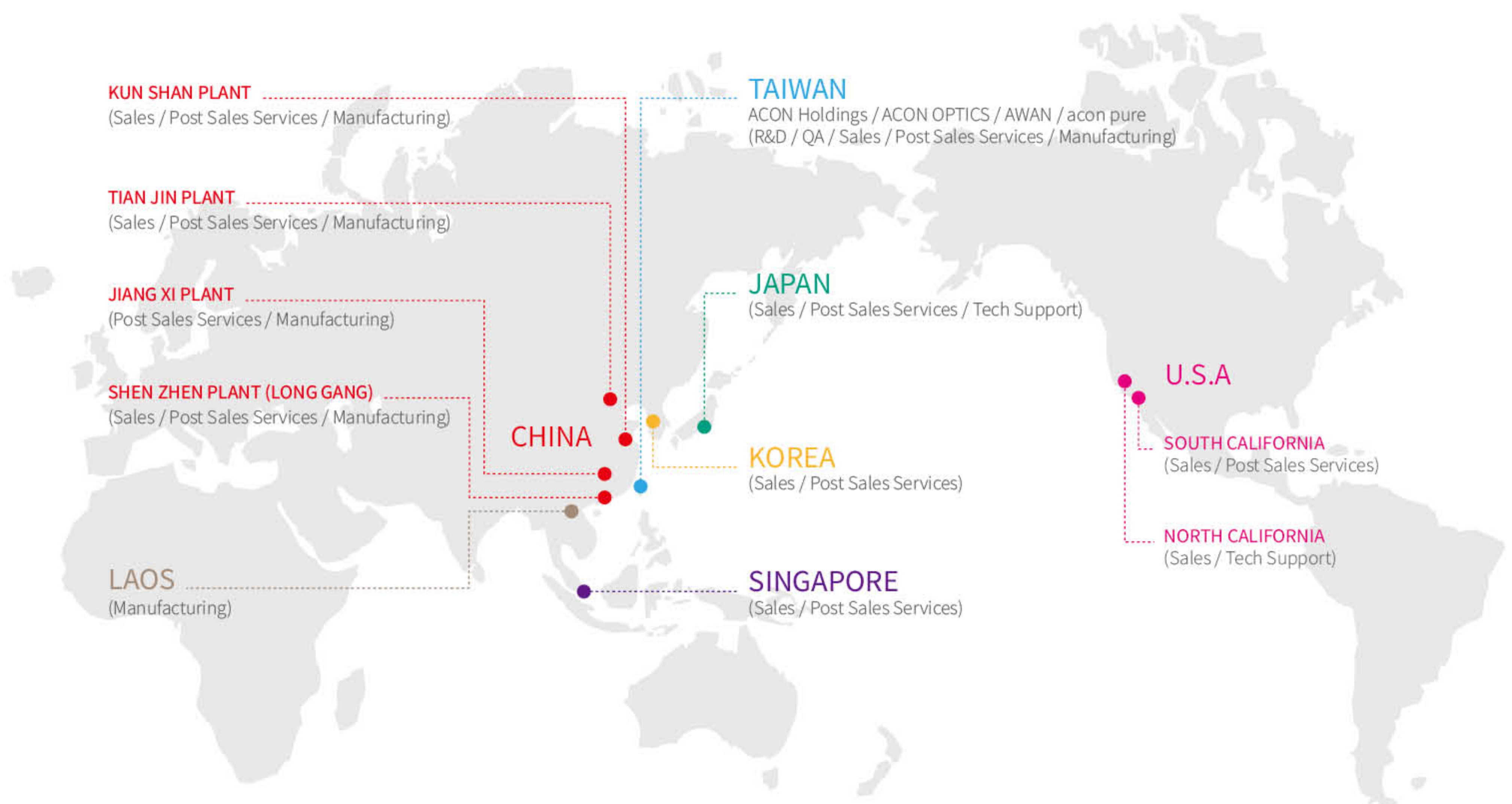
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