GET Corp.

GLORIOLE ELECTROPTIC TECHNOLOGY CORP.

Gloriole Electroptic Technology (GET) Corp was authorized by NTT-AT to manufacture and promote MU connectors along with adapters when established in 2000, Kaohsiung, Taiwan.

GET has dedicated to all kinds of attenuators in the early years. GET produces flawless end face of Zirconia ferrules with our advanced polishing process.

In 2011, GET was first to be listed in the LC Alliance, authorized to manufacture and promote Unibody and Standard LC connectors and adapters.

Today, GET is a professional manufacturer of optical fiber passive components. We have granted more than 180 patent certificates. We not only focus on single fiber but also high fiber counts and high density fiber optics products.

We deliver SPEED.
We build TRUST.
We bring FIBER TO YOUR HOME.

CONNECTING OUR WORLD

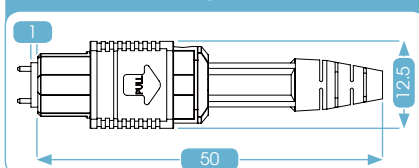# TABLE OF **CONTENTS**

GET Corp.

MPO Connector

unit: mm

Features

* Ideal for round, oval and bare ribbon fiber cable assembly
* High performance IL & RL
* Housing can be removed for re-polishing
* Can be un-plugged from adapter with push-pull tab
* Diversity - Green, Beige, Aqua,Yellow. Black and Magenta are available upon request
* Available for 45-degree, 90-degree and flexible boot
* IEC 61754-7 and TIA/EIA 604-5 Compliant for MPO/MTP® interfaces
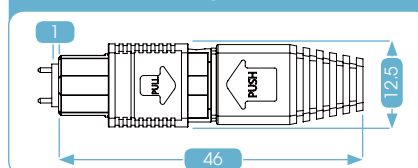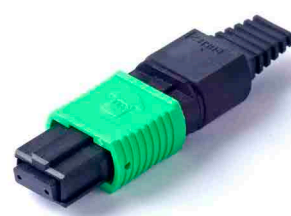* Telcordia GR-1435-Core Compliant
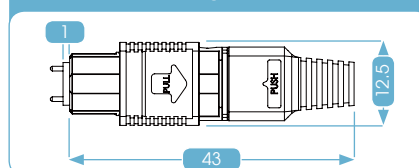
unit: mm

Round Cable

DIAGRAM

1 | 12.5

50

Oval Jacket Cable

DIAGRAM

1 | 12.5

PULL | PUSH

46

Bare Ribbon Fiber

DIAGRAM

1 | 12.5

PULL | PUSH

43

Connector with Angled Boot

Flexible Boot

56

64

VARIABLE ANGLE

45-degree Boot

50

90-degree Boot

64

unit: mm

MPO Connector with Push-Pull Tab

★ PATENTED ★

DIAGRAM

14.5 | 11.22

50.15
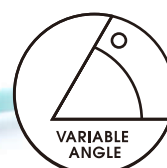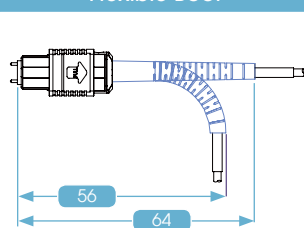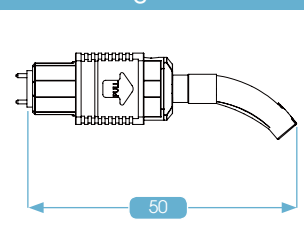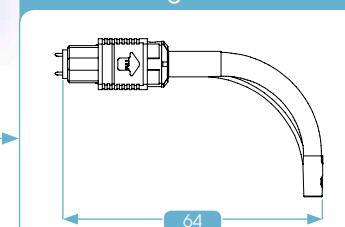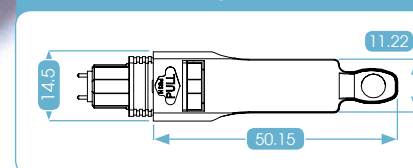
Removable Housing

▼ Specifications

Item	MPO Connector (4F, 8F, 12F, 24F)	
Mode	Single mode	Multi mode
Durability (50 matings)	< 0.3dB	
Fiber Diameter	9/125um	50/125um & 62.5/125um
Insertion Loss (Typical)	Standard loss 0.25dB (0.5dB for 24F) Low Loss 0.1dB	Standard loss 0.2dB Low Loss 0.1dB
Insertion Loss (Maximum)	Standard loss ≦ 0.75dB (1.0dB for 24F) Low Loss ≦ 0.35dB	Standard loss ≦ 0.6dB Low Loss ≦ 0.35dB
Return Loss	APC ≧ 55dB	--
Operating Temp. (°C)	-40°C~ +75°C	
Storage Temp. (°C)	-40°C~ +85°C	

＊ Performance is polish dependent

Part Number	Description
1F401C80015F1	Connector Kits 12F MPO(F) SM Green with Ferrule for 3.0mm Round Cable
1F393C8001EF1	Connector Kits 12F MPO(F) MM Aqua with Ferrule for 3.0mm Round Cable
1F401FS0015F1	Connector Kits 24F MPO(F) SM Green with Ferrule for 3.2mm Round Cable
1F393FS001EF1	Connector Kits 24F MPO(F) MM Aqua with Ferrule for 3.2mm Round Cable

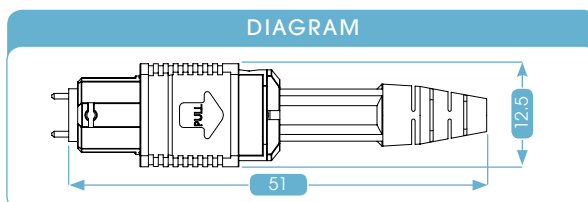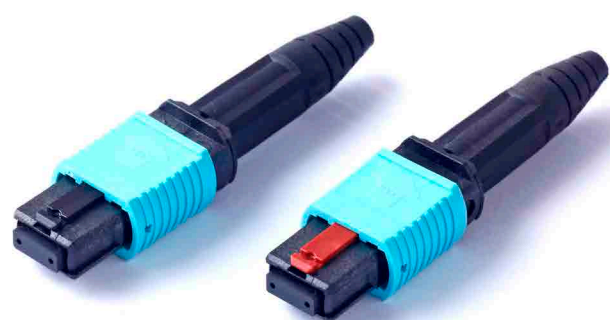| Part Number	Description
1F401BE001502	Connector Kits 12F MPO(F) SM Green with Ferrule for Oval Jacket Cable
1F393BE001E02	Connector Kits 12F MPO(F) MM Aqua with Ferrule for Oval Jacket Cable

Part Number	Description
1F401AF0015F1	Connector Kits 12F MPO(F) SM Green with Ferrule for Bare Ribbon Fiber
1F393AF001EF1	Connector Kits 12F MPO(F) MM Aqua with Ferrule for Bare Ribbon Fiber

＊ Please contact us for other configurations.

Specifications are subject to change without prior notice.

Specifications are subject to change without prior notice.
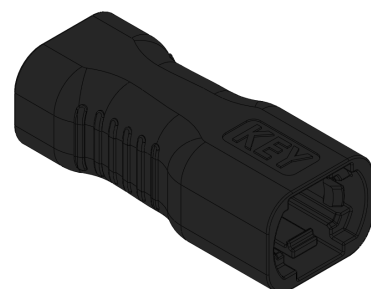
MTX™ Connector

unit: mm

Features

* MTX Connector is an unique design by GET;
  Its POLARITY can be changed without
  opening the housing or using any special tool
* RoHS and Reach Compliant
* IEC 61754-7 and TIA/EIA 604-5 Compliant for MPO/MTP®
  interfaces
* Telcordia GR-1435-Core Compliant

★ PATENTED ★

MTX Connector

MTX Connector with Push-Pull Tab

DIAGRAM

12.5

51

MTX tool (changer)

▼ Step chart

01 Key Up / Housing

02 Use pen or finger to push key in. / Pull back housing.

03 Rotate 180 degree.

04 Use pen or fingers to pull out the key. / Push back the housing.

05 When red key up, polarity has been changed.

Micro MPO Connector

GET's Micro MPO Connector is a unique design for ribbons and high density applications. It's the Shortest MPO Connector in the market, its length only 18.1mm. Its Polarity can be changed without opening the housing or using any special tool. GET's Micro MPO Connector is fully compliant with IEC Standard 61754-7 and TIA 604-5 – Type MPO.
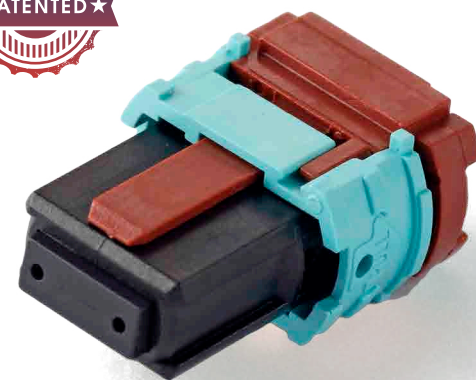
unit: mm

Features

* Patent No.: Taiwan: M569855/ China: 201821562148.4/ US: US 10,782,486 B2
* Micro MPO push-pull tab patent:
  Taiwan Patent No.: M539725 / China Patent NO.: 201720104614.3
* Total length 18.1mm for Bare Ribbon Fiber.
* Diversity - Green, Beige, Aqua, Yellow. Black and Magenta are available upon request.
* Push-pull Tab available.
* IEC 61754-7 and TIA/EIA 604-5 Compliant for MPO/MTP® interfaces.
* Telcordia GR-1435-Core Compliant.
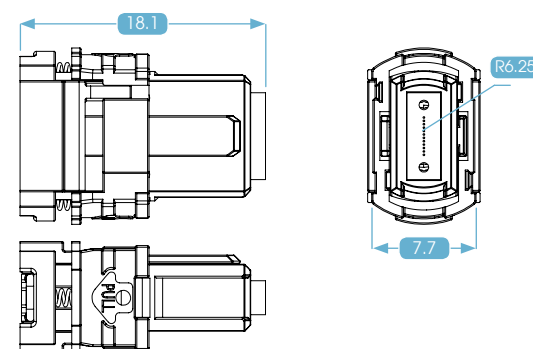* RoHS and Reach Compliant.

Applications

* Optical Switching Interframe
  connections
* High Density Rack
  applications
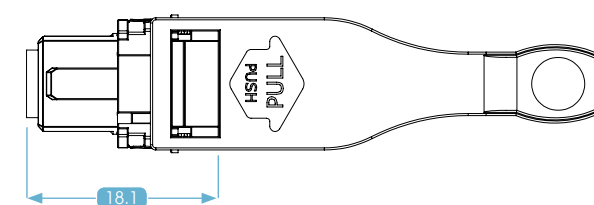* Data Center applications

Micro MPO Connector

★ PATENTED ★

Micro MPO Connector with Push-Pull Tab

★ PATENTED ★

unit: mm

DIAGRAM
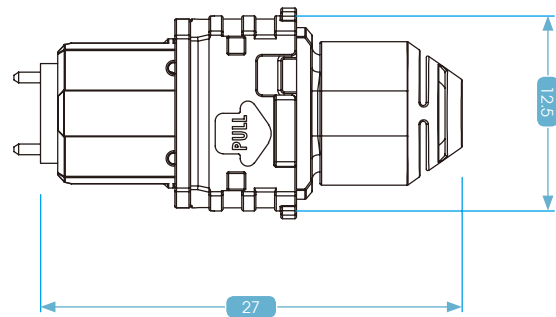
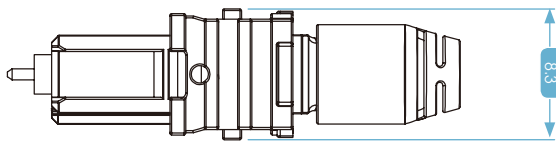18.1

R6.25

7.7

DIAGRAM

18.1

Nano MPO Connector

Features

* Short at 27mm long for 3.0mm round cable.
* Polarity changeable.
* Various boot dimension.
* Standard MPO function and performance.

unit: mm

Nano MPO Connector

DIAGRAM

12.5

27

DIAGRAM

8.3

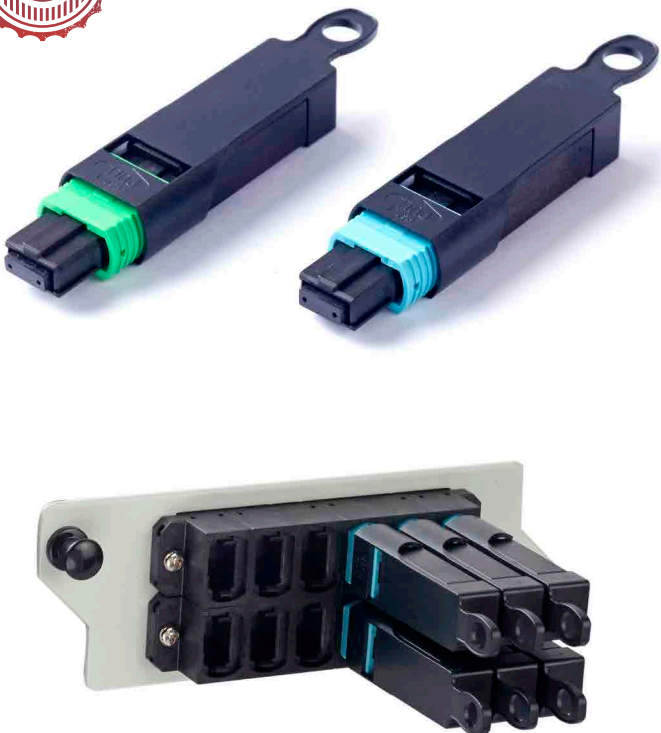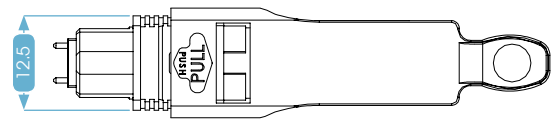
MPO Loopback

Features

* Small, compact housing design
* Streamlined, Ruggedized housing design for excellent stability and reliability
* Available for 4, 8, 12, 16 ,24 and 32F
* Standard and QSFP application

unit: mm

MPO Loopback

DIAGRAM

12.5

DIAGRAM

63

50

14.44

7.7

9.05
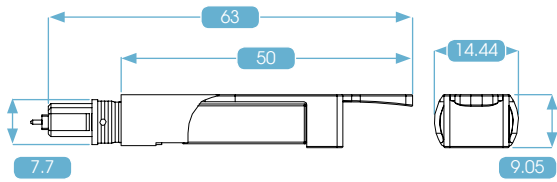
▼ Specifications

Insertion Loss: ≦ 1dB for MM at 850nm, ≦ 1dB for SM at 1310/1550nm

Part Number	Description
1E401000H2	MPO/APC Loopback 12F SM 0dB(STD 1-12)
1E39J000H2	MPO/PC Loopback 12F OM3 0dB(STD 1-12)
1E401000K2	MPO/APC Loopback 24F SM 0dB(STD2 1-13)
1E39J000K2	MPO/PC Loopback 24F OM3 0dB(STD2 1-13)

✳ Please contact us for other configurations.

MPO Adapter

unit: mm

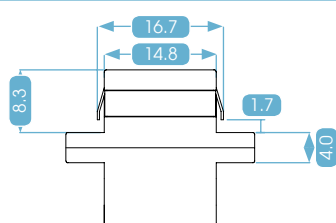## Features

* Internal shutter available for dust protection and eye safety
* Keyway available for key up or key down
* IEC 61754-7 and TIA/EIA 604-5 Compliant for MPO/MTP®
  interfaces
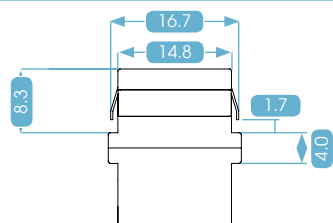* Telcordia GR-1435-Core Compliant

Plastic MPO Adapter with Flange	Plastic MPO Adapter without Flange	Metal MPO Adapter without Flange

DIAGRAM

16.7
14.8
8.3
1.7
4.0

DIAGRAM

16.7
14.8
8.3
1.7
4.0

Features

* Metal die-cast housing resists EMI

Specifications

Housing	UL-Rated Plastic or Die Cast
Clip & Shutter	Stainless Steel
Durability	< 0.3dB change, 50 mating cycles
Operating Temperature	-40°C~ +70°C
Storage Temperature	-40°C~ +85°C

Part Number	Description
13712180A21210201	Plastic MPO Adapter with Flange Key Up to Down
13712180A21240201	Plastic MPO Adapter with Flange Key Up to Down, Internal Shutter
13700110010210201	Metal MPO Adapter with Flange Key Up to Down
13700110010240201	Metal MPO Adapter with Flange Key Up to Down, Internal Shutter

＊ Please contact us for other configurations.

MT-MPO Adapter

GET manufactures durable MT-MPO Adapter that provides the function of easy connection and disconnection for MT Ferrule and MPO Connector. Disconnecting operation is provided by pressing and holding Cam to release MT Ferrule. GET's MT-MPO Adapter is fully compliant with IEC Standard 61754-7 and TIA 604-5 – Type MPO.

unit: mm

Features

* Patent No.: Taiwan: 563094/ China: 201820521832.1/ US: US 10,133,009 B1
* Optimized for multi-fiber connector applications.
* Easy connection and disconnection.
* All adapters compatible with MPO/MTP® connectors and standard MT Ferrules.
* Supplied with two non-debris generating dust plugs, one for MT Ferrule, one for MPO.
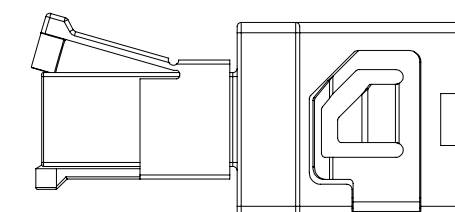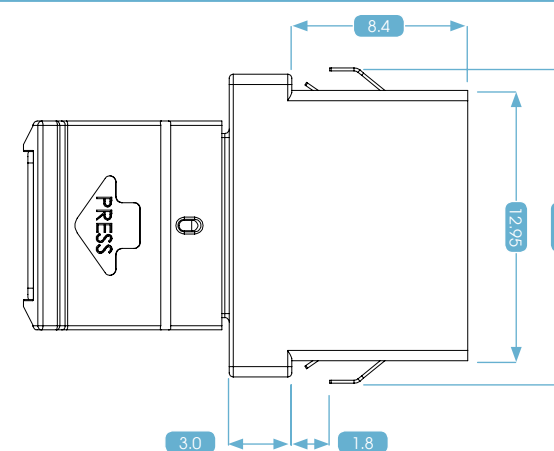
Applications

* Optical Switching Interframe connections
* High Density Rack applications
* Data Center applications

MT-MPO Adapter

Hold Cam
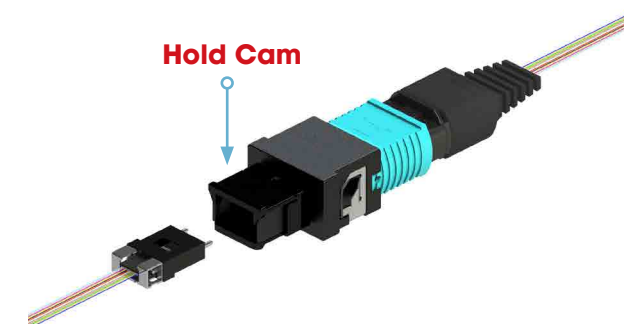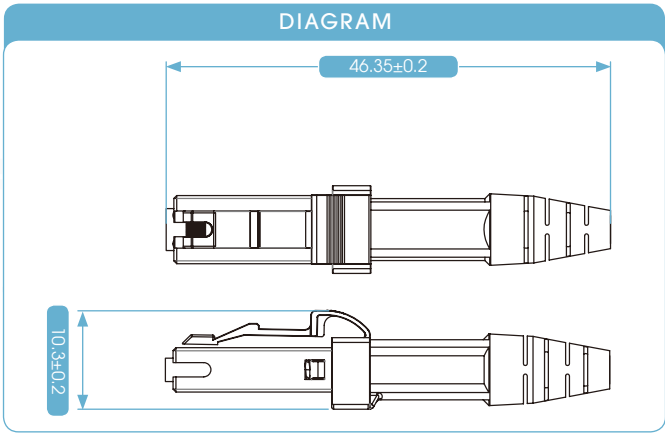
Unplug MT Ferrule

DIAGRAM

8.4
12.95
15.2
3.0
1.8
PRESS

MTRJ
Reversible Connector

Features

* Gloriole's MTRJ Connector meet industrial standard
* Available in Round cable, Bare Ribbon and Oval Jacket Cable.
* Also reversible function available.

★ PATENTED ★

unit: mm

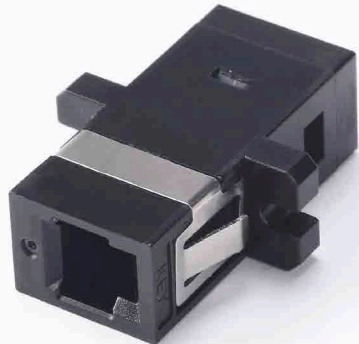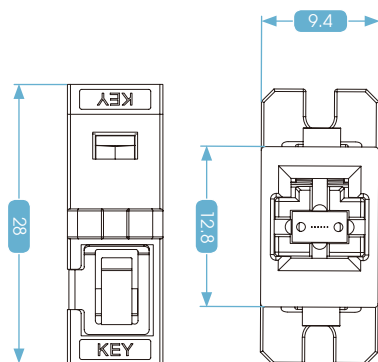**MTRJ Reversible Connector**

DIAGRAM

46.35±0.2

10.3±0.2

MTRJ
Reversible Adapter

Features

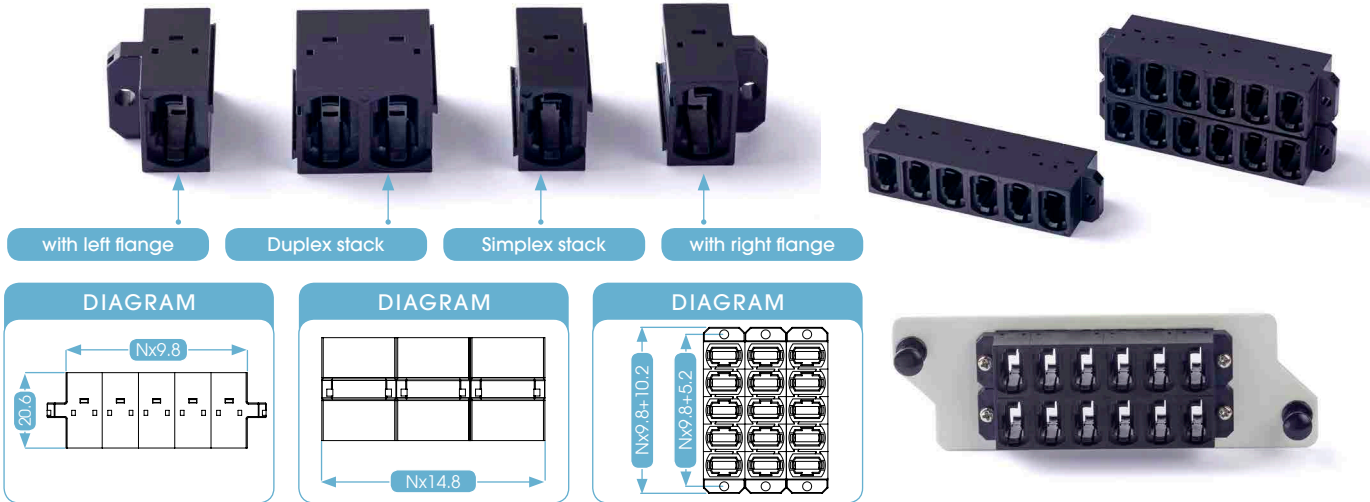* Gloriole's MTRJ Adapter meet industrial standard, also available in variety colors with easy reversible function.
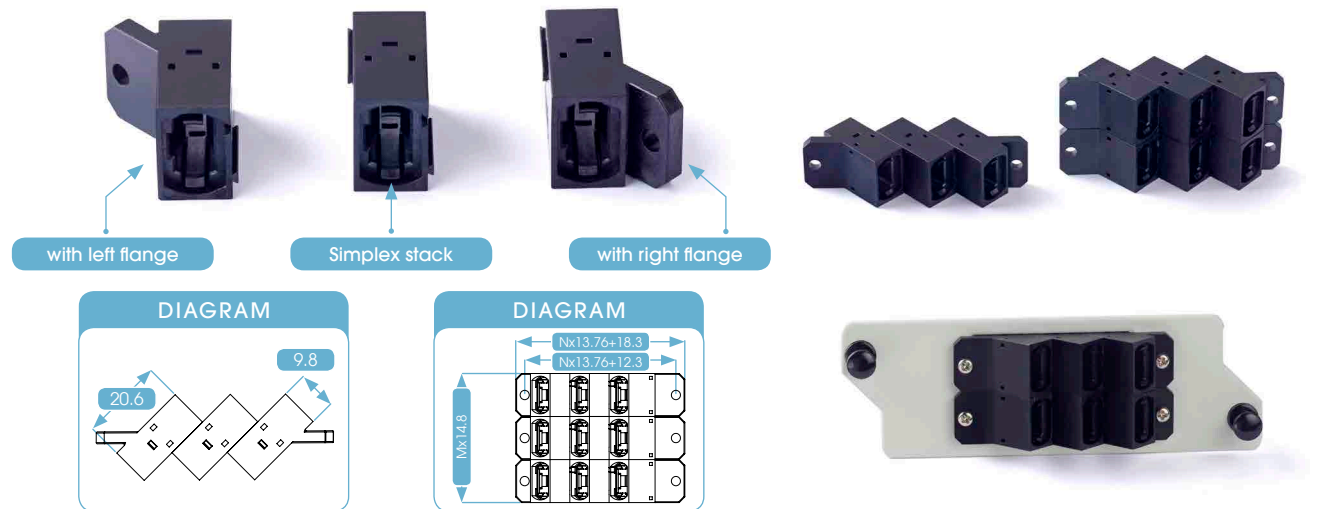
★ PATENTED ★

unit: mm

MTRJ Reversible Adapter

DIAGRAM

9.4

KEY

KEY

28

12.8

MPO
Stackable Adapter

Features

* Internal shutter available for dust protection and eye safety
* High density application
* Keyway available for key up or key down
* Durability - < 0.3dB change, 50 mating cycles
* IEC 61754-7 and TIA/EIA 604-5 Compliant for MPO/MTP® interfaces
* Telcordia GR-1435-Core Compliant

unit: mm

Straight Type

| with left flange | Duplex stack | Simplex stack | with right flange |

DIAGRAM	DIAGRAM	DIAGRAM

Nx9.8

20.6

Nx14.8

Nx9.8+10.2

Nx9.8+5.2

Angled Type

| with left flange | Simplex stack | with right flange |

DIAGRAM	DIAGRAM

20.6

9.8

Nx13.76+18.3

Nx13.76+12.3

Mx14.8

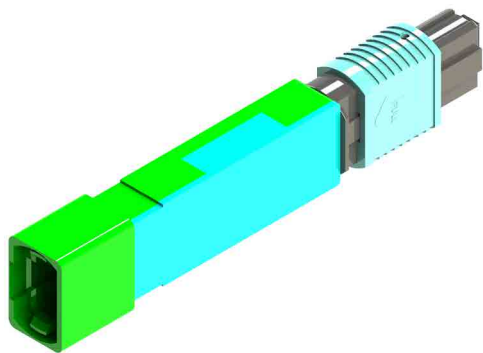| Part Number	Description
	Straight Type
1N1aabccx1A1001	aa : Total ports ex.1x4=04, 2x6=12, 3x8=24...
	b : Row, ex.1=1 row, 2=2 rows...
	cc : Ports per row, ex.4=04, 12=12...
	x : 1=Key Up to Key Down, 2=Key Up to Key Up
ex : 1x6 MPO Stackable Adapter, Straight Type = 1N10610611A1001	
	45° Type
1N2aabccx1A1001	aa : Total ports ex.1x4=04, 2x6=12, 3x8=24...
	b : Row, ex.1=1 row, 2=2 rows...
	cc : Ports per row, ex.4=04, 12=12...
	x : 1=Key Up to Key Down, 2=Key Up to Key Up
ex : 1x4 MPO Stackable Adaprer, 45° Type = 1N20410421A1001	

＊ Please contact us for other configurations.

Specifications are subject to change without prior notice.
Specifications are subject to change without prior notice.

MPO
Related Products

unit: mm

MPO Attenuator

MT - Fiber Array Assembly

MPO
Ribbonizer

unit: mm

Features

* Easy to convert individual fibers
  into ribbon fibers
* Reusable

★ PATENTED ★
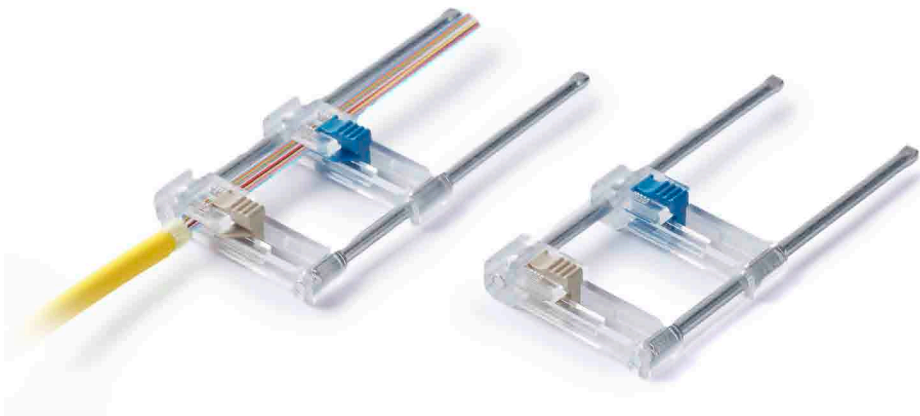
MPO Ribbonizer

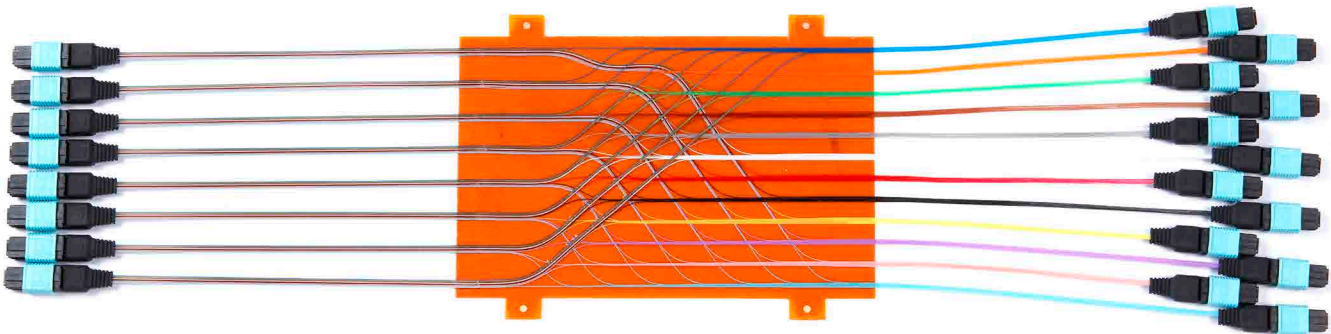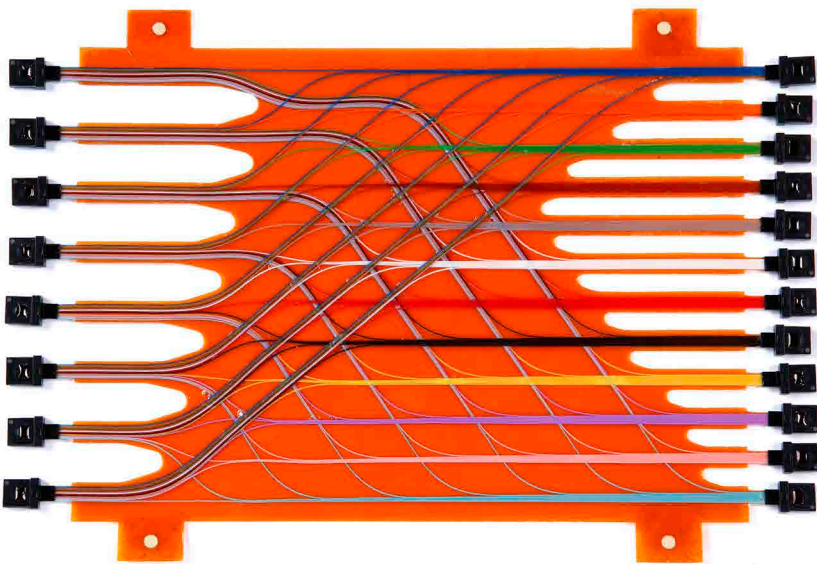| Part Number	Description
1H02001	MPO Ribbonizer

Optical Fiber Flex Circuit

Optical Fiber Flex circuit is designed to optimize complex optical fiber routing with high fiber count, providing system designers real solutions to solve the growing fiber management problems.

Benefits

* Simplifies intra-rack fiber management and cabling
* Reduces installation time and costs
* Saves valuable space
* Offers flexibility in systems design

Features

* High fiber count in Racks or on PCB
* Flexible, thin and light for SM or MM Application
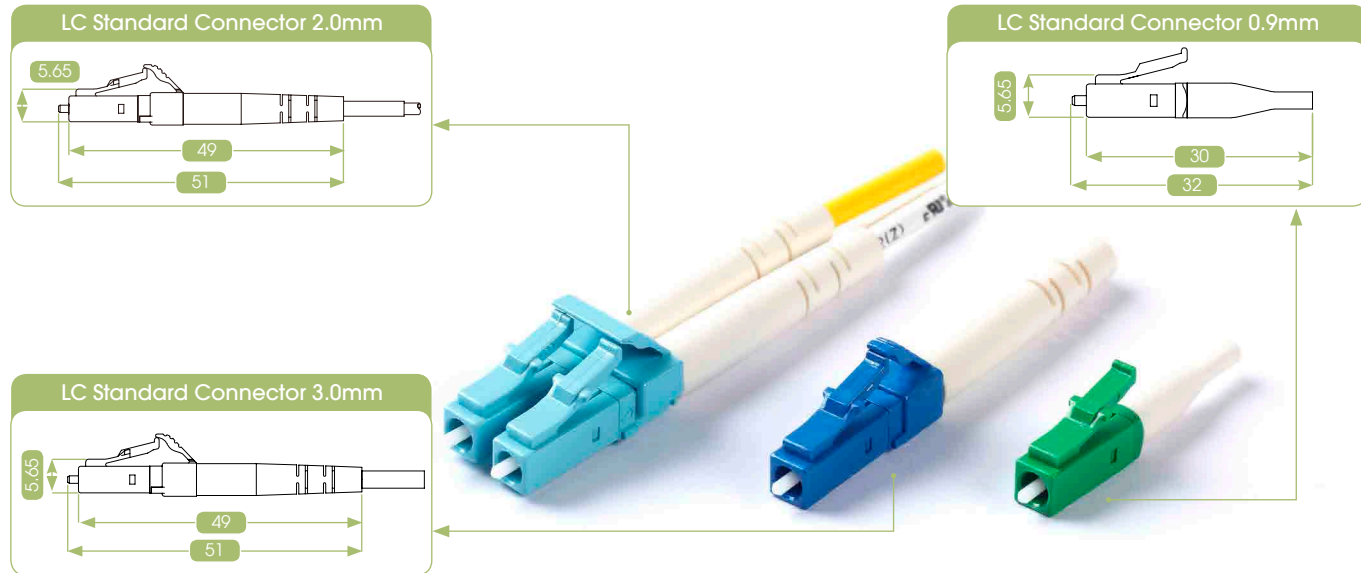* Flame resistant substrate (94V-0 rated)

unit: mm

Optical Fiber Flex Circuit

★ PATENTED ★

Performance

Optical Fiber Nominal OD	250μm
Max. Circuit Dimensions	500mm x 500mm
Max. IL (W/out Connector)	< 0.1dB
Minimum Bend Radius	25mm
Operating Temperature	−25°C ~ +85°C

Specifications are subject to change without prior notice.

Specifications are subject to change without prior notice.
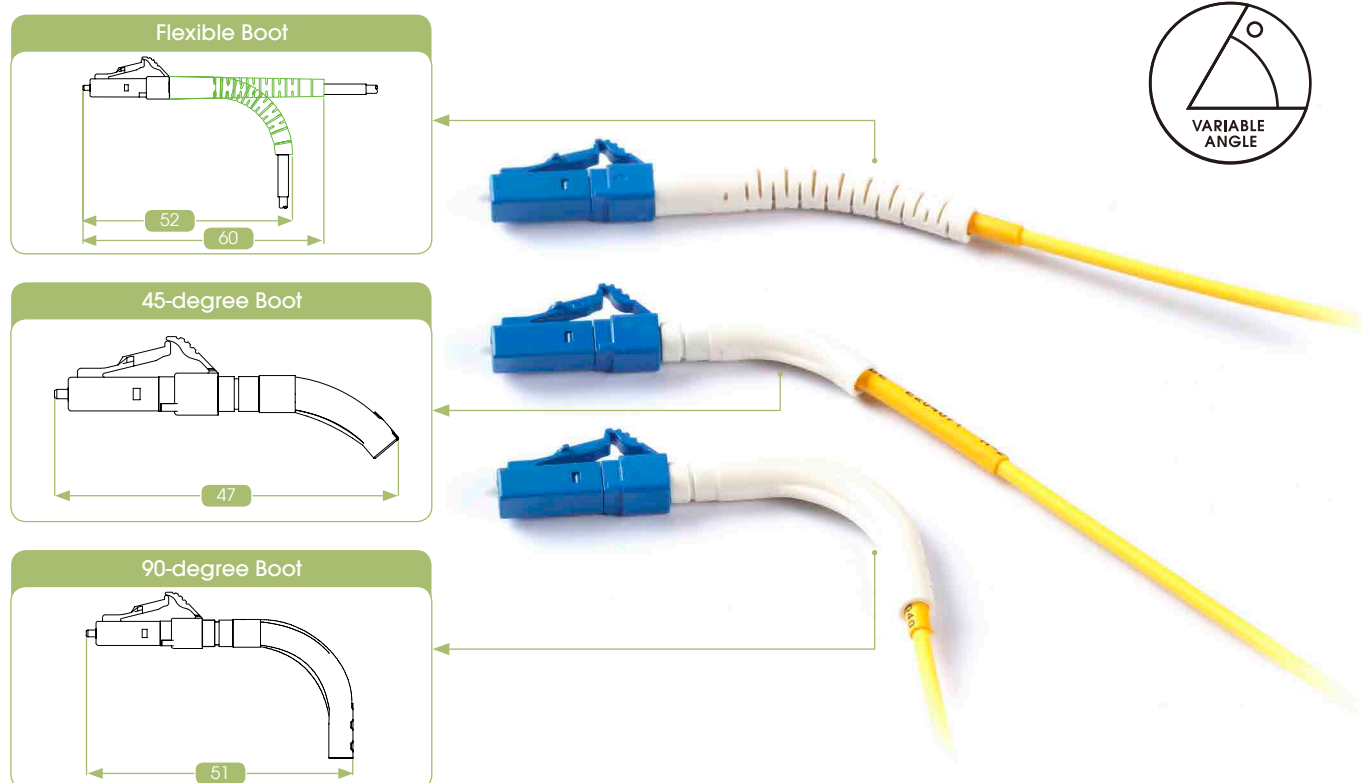
LC Connector

Features

★ PATENTED ★

* Small Form Factor (SFF) connector
* Simplex and Duplex for option
* SM/PC, SM/APC and MM/PC versions
* 900μm, 2.0mm and 3.0mm versions
* Multiple boot color for option
* Available for 45-degree, 90-degree and flexible boot
* Telcordia GR-326, IEC and TIA/EIA compliant

unit: mm

LC Connector

LC Standard Connector 2.0mm

5.65 | 49 | 51

LC Standard Connector 0.9mm

5.65 | 30 | 32

LC Standard Connector 3.0mm

5.65 | 49 | 51

LC Connector with Angled Boot

Flexible Boot

52 | 60

VARIABLE ANGLE

45-degree Boot

47

90-degree Boot

51

Specifications

Characteristics	Single Mode		Multi Mode	
	Premier Grade	A Grade	Premier Grade	A Grade
Insertion Loss	≦ 0.15dB	≦ 0.30dB	≦ 0.15dB	≦ 0.30dB
Return Loss	PC ≧ 50dB		-	
	UPC ≧ 55dB			
	APC ≧ 65dB			
Operating Temperature	-40℃~ +75℃			
Storage Temperature	-40℃~ +85℃			

✴ Performance is polish dependent

| Part Number	Description
1F1yabc001x01	y: 5=PC, 6=APC
	a: 1=SM, 2=MM, 3=OM3, 4=OM4
	b: 1=Simplex, 2=Duplex
	c: 2=900μm, 6=2.0mm, 8=3.0mm
	x: 3=Blue, 5=Green, E=Aqua, G=Beige, N=Magenta
ex: Connector Kits LC/PC 2.0mm SM(Blue) Simplex with Ferrule = 1F15116001301	

✴ Please contact us for other configurations.

LC Connector with Push-Pull Tab

★ PATENTED ★
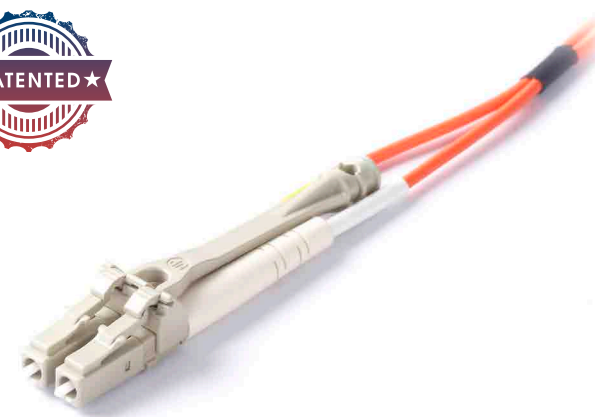
Features

* Available for Duplex Standard Connector and Unibody Connector
* Data Center Application
* High Density Application

DIAGRAM

46.6 | 4

DIAGRAM

ø6.29 | 2.3 | 1.65
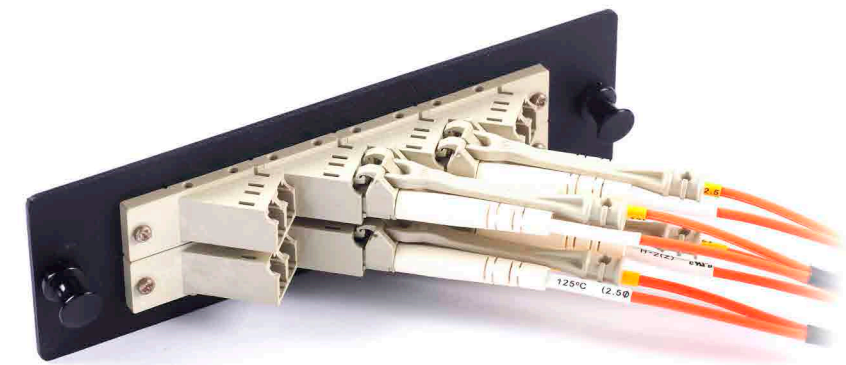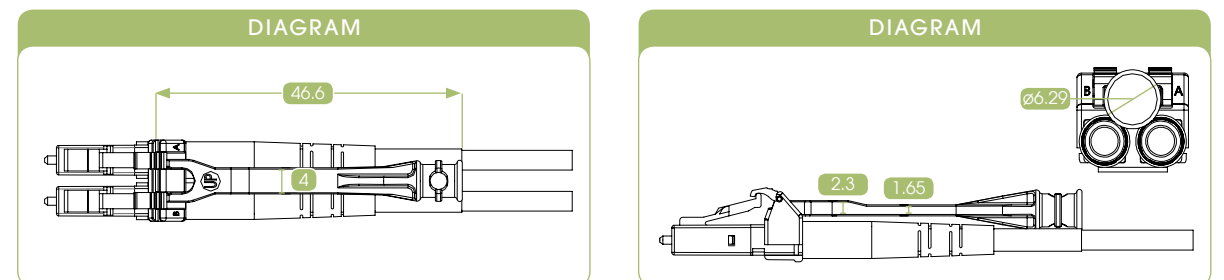
Unibody LC Connector

unit: mm

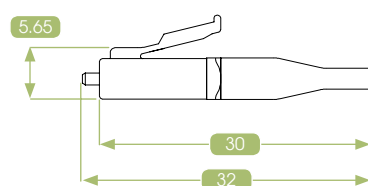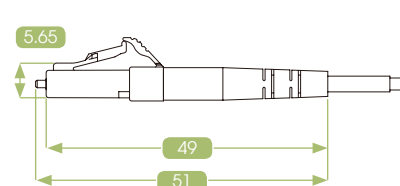## Features

* Unique one-piece design
* Low Insertion Loss: 6 direction tuning feature to improve random mating IL
* Small Form Factor (SFF) connector
* Anti-snag latch for jumper
* Available for 0.9mm, 2.0mm, 3.0mm, simplex and duplex
* Angled boots available for 45 degree, 90 degree and flexible boot
* LC patchcord can be plugged in and removed easily from LC adapter by using push-pull tab
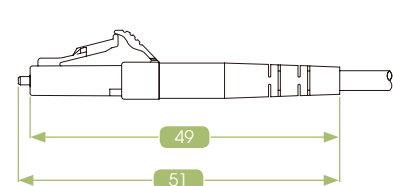* Telcordia GR-326, IEC and TIA/EIA compliant

LC Unibody Connector
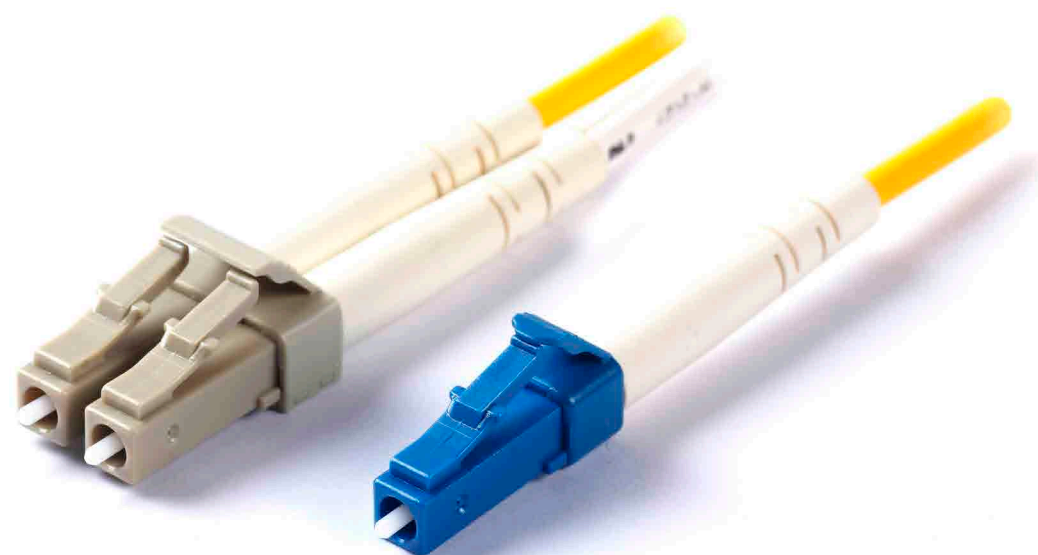
LC Unibody Connector 0.9mm	LC Unibody Connector 2.0mm	LC Unibody Connector 3.0mm
5.65 / 30 / 32	5.65 / 49 / 51	49 / 51

Part Number	Description
1F3yabc001x01	y：0=PC, 1=APC
	a：1=SM, 2=MM, 3=OM3, 4=OM4
	b：1=Simplex, 2=Duplex
	c：2=900μm, 6=2.0mm, 8=3.0mm
	x：3=Blue, 5=Green, E=Aqua, G=Beige, N=Magenta
ex：Connector kits LC/PC Unibody 2.0mm SM(Blue) Duplex with Ferrule =1F30126001301	

＊ Please contact us for other configurations.
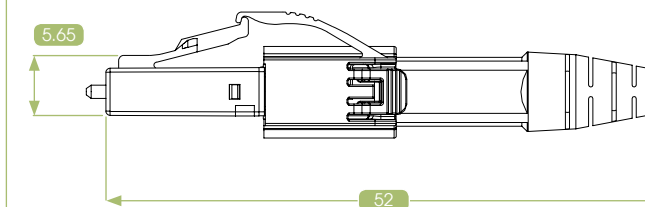

LCX Connector™

unit: mm

Features

* Easy to change connector polarity without any tool
* Versatility: pitch change between 6.25mm and 5.25mm
* Easy to un-plug from adapter on high dense board with push-pull tab
* Uniboot design to decrease cable 50% volume, suitable for data centers application
* Telcordia GR-326, IEC and TIA/EIA compliant

LCX Connector

★ PATENTED ★
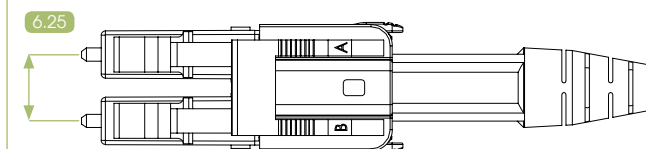
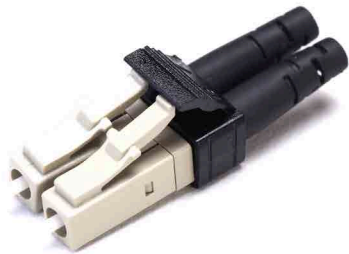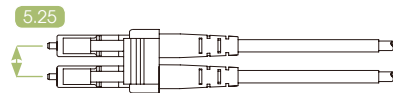| DIAGRAM	DIAGRAM
6.25	5.65 / 52

Mini LC Connector

Features

* Mini LC Connector Pitch at 5.25mm(Duplex Only)
* This connector design is compatible with mini SFP + transceivers
* Increases the density
* 36mm in length from ferrule tip to boot end
* Provides space saving in the network and FTTH application

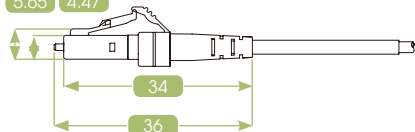unit: mm

Mini LC Connector

DIAGRAM
5.25

DIAGRAM
5.65 4.47
34
36

Part Number	Description
1F24126133301	Connector Kits Mini LC/PC 2.0mm SM(Blue) Duplex with Ferrule
1F24226001G02	Connector Kits Mini LC/PC 2.0mm MM(Beige) Duplex with Ferrule

* Please contact us for other configurations.

Micro LC Connector

Features

* Micro LC Connector Pitch at 6.25mm (Available in Simplex and Duplex)
* 36mm in length from ferrule tip to boot end
* Provides space saving in the network and FTTH application

Micro LC Connector 0.9mm

DIAGRAM
5.65 4.47
34
36

DIAGRAM
5.65
30
32

Part Number	Description
1F27116003301	Connector Kits Micro LC/PC 2.0mm SM(Blue) with Ferrule

* Please contact us for other configurations.

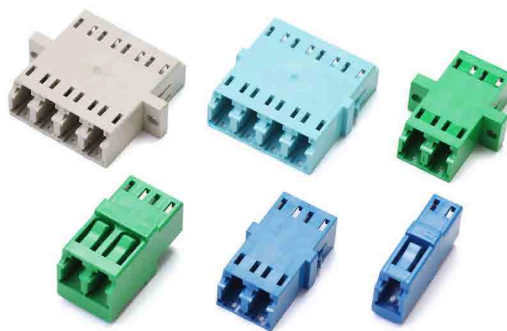Specifications are subject to change without prior notice.

LC Adapter

Features

* Unique one-piece design
* Low insertion loss
* Easy installation
* Diversity - Blue, Green, Beige, Aqua. Black and Magenta are available under request
* Internal and external shutter available for dust protection and eye safety
* Telcordia GR-326, IEC and TIA/EIA compliant

unit: mm

LC Adapter

LC Adapter with Shutter

Specifications

Mode Type	APC	Single Mode	Multi Mode
Housing Color	Green	Blue	Beige/Aqua/Magenta
Main Body Material	UL-Rated Plastic		
Sleeve	Zirconia or Phosphor Bronze		
Typical Insertion Loss, dB	Zirconia ≦ 0.15dB , Phosphor Bronze ≦ 0.25dB		
Durability	< 0.2dB change, 500mating		
Operating Temperature	-40°C~ +75°C		
Storage Temperature	-40°C~ +85°C		

* Performance is polish dependent

Part Number	Description
	LC Adapter Simplex Zirconia Sleeve
135ab121c20112502	a：1=PC, 2=APC b：2=SM, 4=MM c：3=Blue, 5=Green, G=Beige
ex：LC/PC Adapter SM(blue) Simplex = 13512121320112502	
	LC Adapter Duplex Lucent Type Zirconia Sleeve(one-piece)
136ab261c20112901	a：1=PC, 2=APC b：2=SM, 4=MM c：3=Blue, 5=Green, G=Beige
ex：LC/APC Adapter SM(green) Duplex Lucent Type = 13622261521112901	
	LC Adapter with SC Footprint Plastic Clip 25.4mm Zirconia Sleeve(one-piece)
136abxy1c20112L11	a：1=PC, 2=APC b：2=SM, 4=MM x：2=Duplex, 3=Quad y：9=with flange, A=without flange c：3=Blue, 5=Green, G=Beige, E=Aqua
ex：LC/PC Adaprer SM(Blue) Duplex with Flange SC Footprint Type = 13612291320112L11	

* Please contact us for other configurations.

Specifications are subject to change without prior notice.
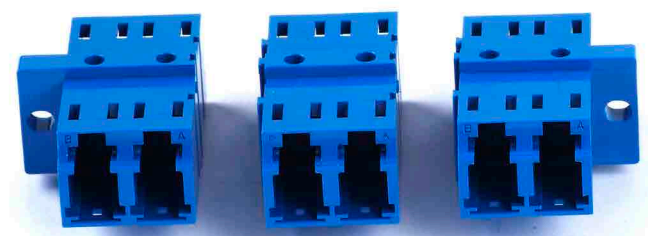
LC
Stackable Adapter

unit: mm

Features

* Ultra Flexible - Can stack multiple rows and columns and completely fulfill the request
* High Density - 1U chassis can accommodate 180 ports LC adapters
* Diversity - Blue, Green, Beige, Aqua. Black and Magenta are available under request
* RoHS and Reach Compliant
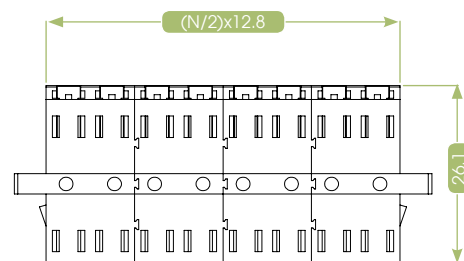* Telcordia GR-326, IEC and TIA/EIA compliant

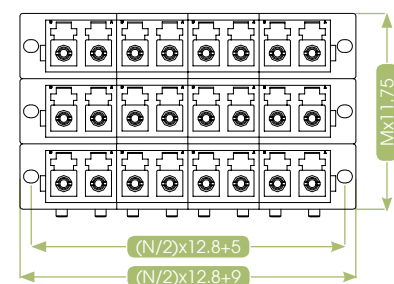★ PATENTED ★

Straight Type

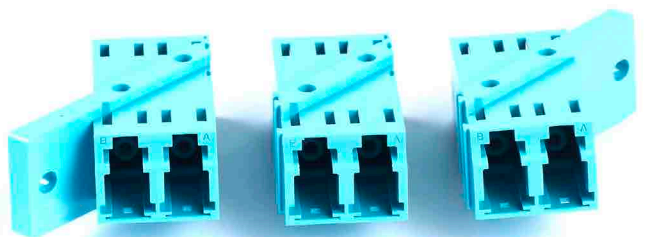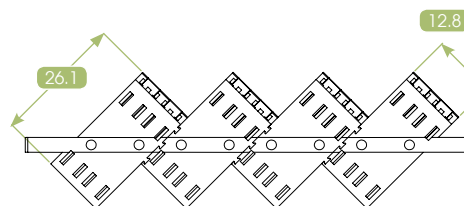with left flange | Duplex stack | with right flange

DIAGRAM

(N/2)x12.8
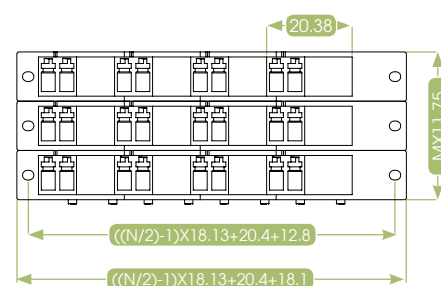26.1

DIAGRAM

MX11.75
(N/2)x12.8+5
(N/2)x12.8+9

Angled Type

with left flange | Duplex stack | with right flange

DIAGRAM

26.1
12.8
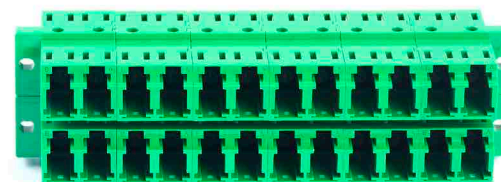
DIAGRAM

20.38
MX11.75
((N/2)-1)X18.13+20.4+12.8
((N/2)-1)X18.13+20.4+18.1
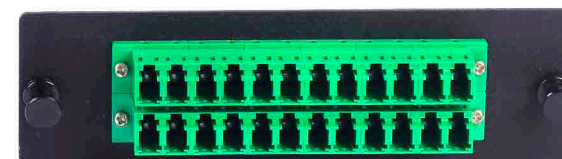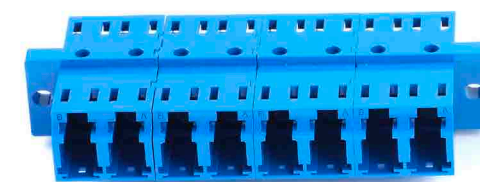
Straight Type

Angled Type
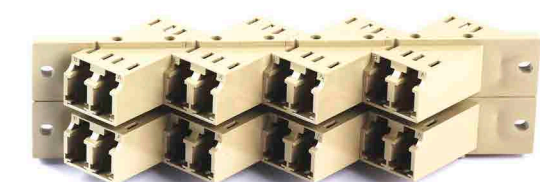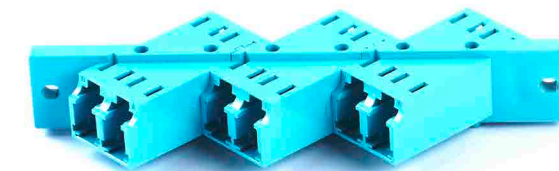
LC Stackable Adapter with Shutter
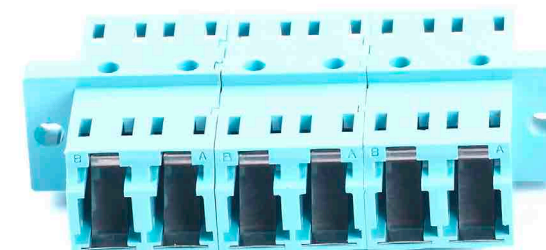
Part Number	Description		
	Straight Type Zirconia Sleeve		
1N1aabcc01y2001	aa：Total ports ex.1x4=04, 2x6=12, 3x8=24…		
	b：Row, ex.1=1 row, 2=2 rows…		
	cc：Ports per row ex.4=04, 12=12…		
	y：3=Blue, 5=Green, E=Aqua, G=Beige		
ex：1x6 LC Stackable Adapter SM(Blue), Straight Type = 1N1061060132001			
	45° Type Zirconia Sleeve		
1N2aabcc01y2001	aa：Total ports ex.1x4=04, 2x6=12, 3x8=24…		
	b：Row, ex.1=1 row, 2=2 rows…		
	c：Ports per row, ex.4=04, 12=12…		
	y：3=Blue, 5=Green, E=Aqua, G=Beige		
ex：1x6 LC Stackable Adaprer MM(Aqua), 45° Type = 1N20610601E2001			

＊ Please contact us for other configurations.

Specifications are subject to change without prior notice.

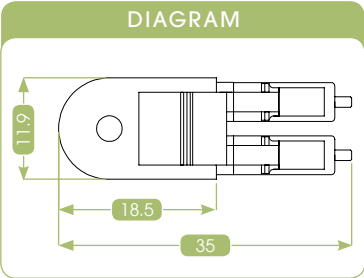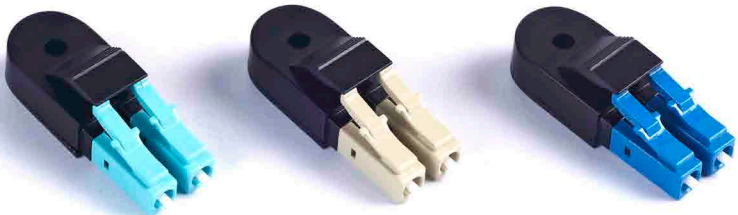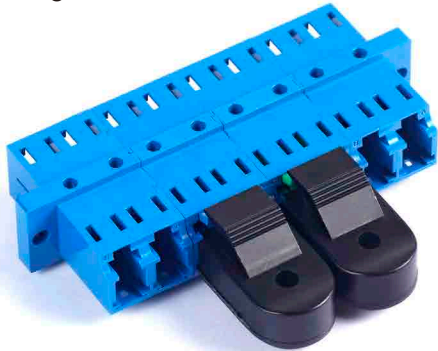Specifications are subject to change without prior notice.

LC Loopback

Features

* Precise attenuation value
* Excellent reflectance
* Flawless end face
* Compact design

unit: mm

LC Loopback

DIAGRAM

11.9
18.5
35

Specifications

Specifications	Value	
Item	**Single Mode**	**Multi Mode**
Wavelength	1310nm and 1550nm	850nm for 1~6dB
	1310nm or 1550nm	850nm/1300nm for 0dB
Attenuation Range	0dB ~ 25dB	0dB ~ 6dB
Attenuation Variation — 0 dB	≧ 1dB	≦ 1dB
Attenuation Variation — 1~10dB	±1dB	≦ 6dB ±1dB
Attenuation Variation — 11~25dB	±15%	-
Reflectance — PC	≧ 45dB	-
Reflectance — UPC	≧ 50dB	
Reflectance — APC	Super ≧ 60dB ; Ultra ≧ 65dB	
Operation Temperature	-40℃~ 75℃	-40℃~ 75℃
Storage Temperature	-40℃~ 85℃	-40℃~ 85℃

＊ Performance is polish dependent

Part Number	Description
1E15100041	LC/PC Loopback SM 0dB
1E15J00041	LC/PC Loopback OM3 0dB

＊ Please contact us for other configurations.
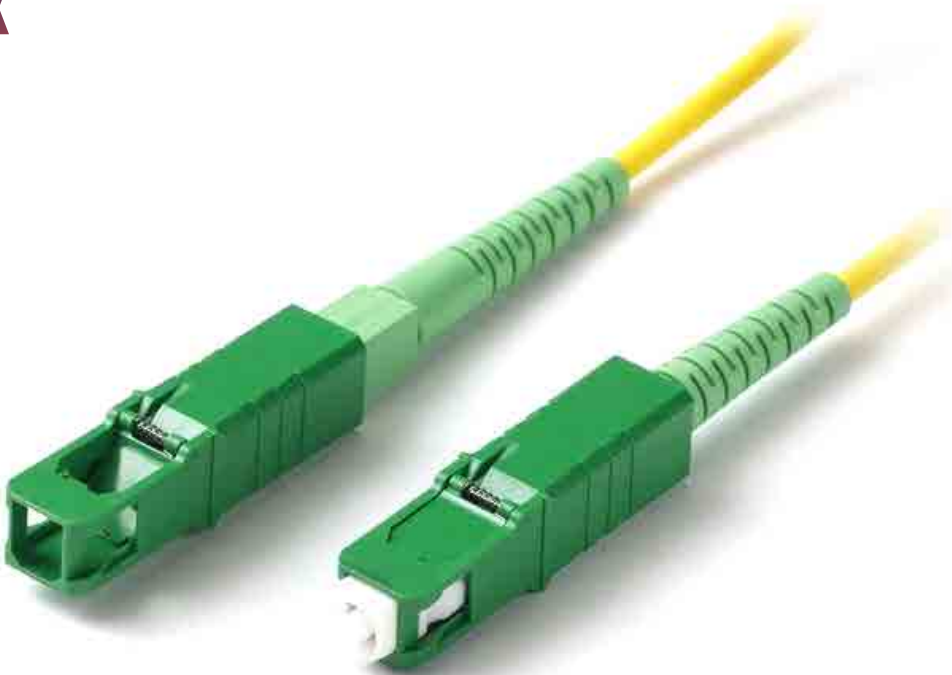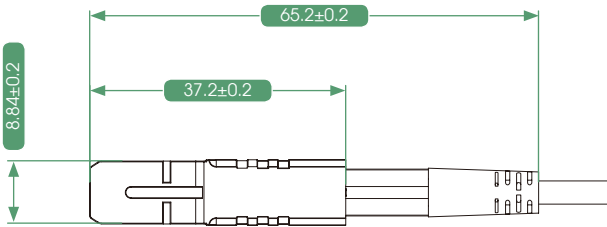

SC Shutter

Features
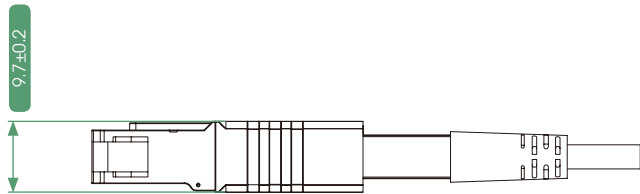
* Ideal for the FTTH application
* Shield laser and dust for protection
* Availble in 0.9mm, 2.0mm and 3.0mm
* Highly Reliable and Stable

unit: mm

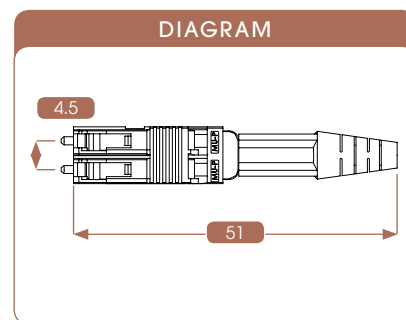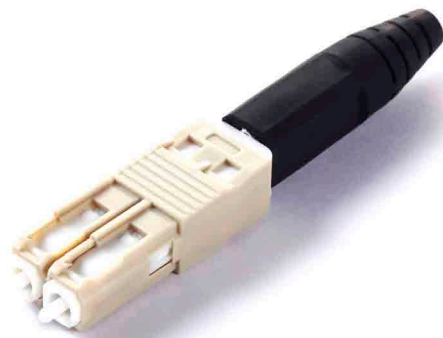## SC Connector with Shutter

★ PATENTED ★

DIAGRAM

8.84±0.2
65.2±0.2
37.2±0.2

DIAGRAM

9.7±0.2

MU Connector

Features

* High precision alignment
* Low Insertion Loss and High Return Loss
* Easy installation
* Compack design and High-density package
* Uniboot design to decrease cable 50% volume, suitable for data centers application
* Telcordia GR-326, NTT & JIS compliant
* SM/PC, SM/APC and MM/PC versions

★ PATENTED ★

unit: mm
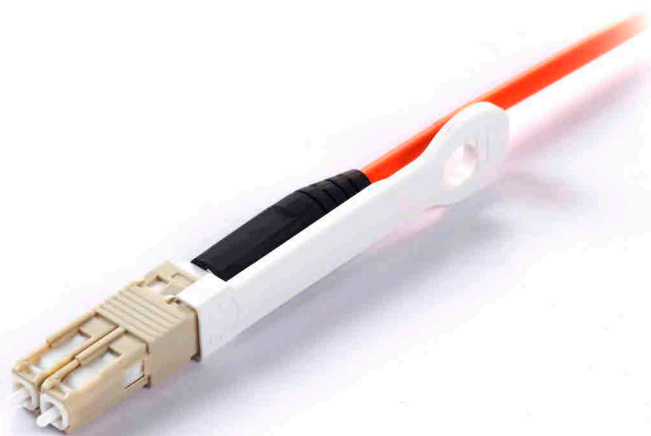
MU Uniboot Connector

DIAGRAM
4.5
51

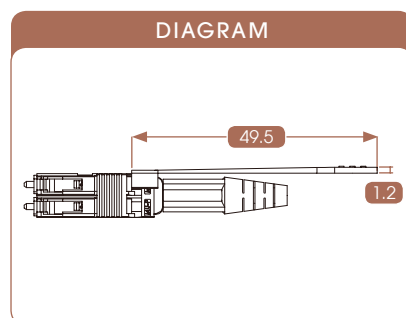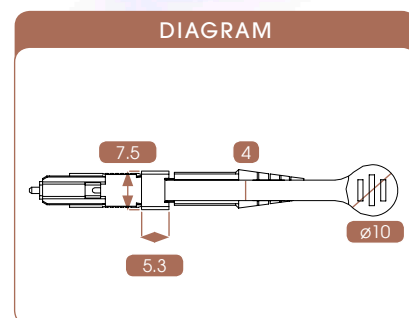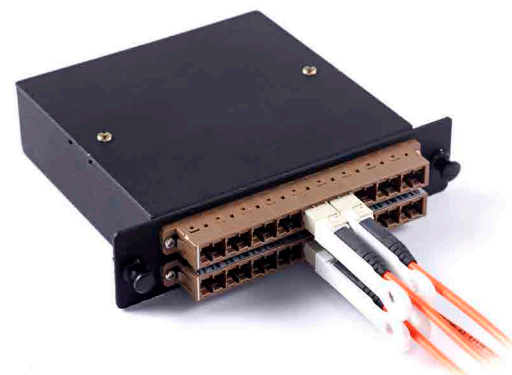| Part Number	Description
1F81a28001x01	a : 1=SM, 2=MM
	x : 3=Blue, 6=Brown, G=Beige
ex : Connector Kits MU(UNIBOOT) 3.0mm SM(Brown) Duplex with Ferrule = 1F81128001601	

✻ Please contact us for other configurations.

MU Uniboot Connector with Push-Pull Tab
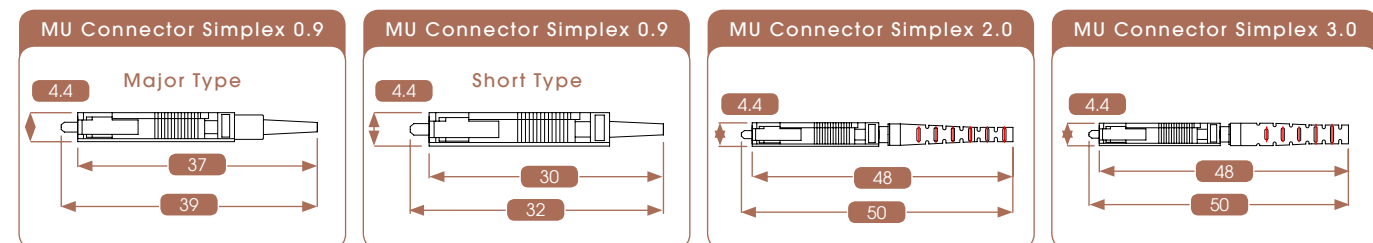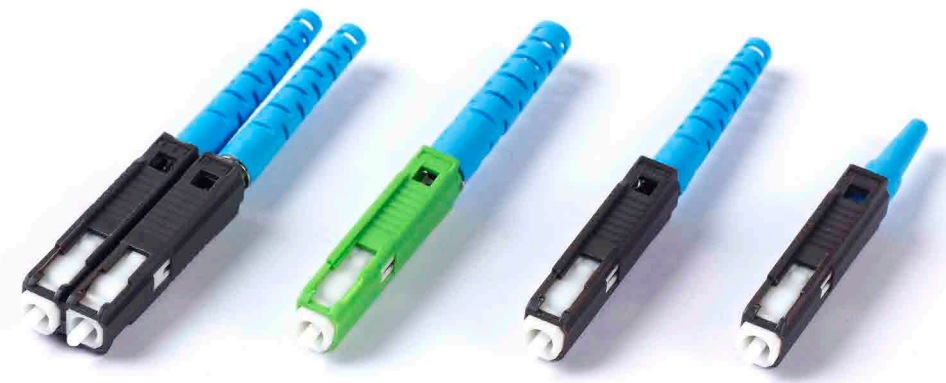

Features

* Can be un-plugged from adapter with push-pull tab
* Data Center Applications
* High Density Applications

DIAGRAM	DIAGRAM
7.5 4 ø10 5.3	49.5 1.2

MU Connector

Features

* Small form factor
* High precision alignment
* Low Insertion Loss and High Return Loss
* Easy installation
* Compact design and High-density package
* 900μm, 2.0mm and 3.0mm versions
* Simplex and Duplex connector housing available
* Telcordia GR-326, NTT & JIS compliant

unit: mm

MU Connector

MU Connector Simplex 0.9	MU Connector Simplex 0.9	MU Connector Simplex 2.0	MU Connector Simplex 3.0
4.4 Major Type 37 39	4.4 Short Type 30 32	4.4 48 50	4.4 48 50

▼ Specifications

Characteristics	Single Mode		Multi Mode	
Insertion Loss	Premier Grade	A Grade	Premier Grade	A Grade
	≦ 0.15dB	≦ 0.30dB	≦ 0.15dB	≦ 0.30dB
Return Loss	PC ≧ 50dB		-	
	UPC ≧ 55dB			
	APC ≧ 65dB			
Operating Temperature	-40°C~ +75°C			
Storage Temperature	-40°C~ +85°C			

✻ Performance is polish dependent

Part Number	Description
1F4yabc001x01	y : 8=PC, 9=APC
	a : 1=SM, 2=MM
	b : 1=Simplex, 2=Duplex
	c : 2=900μm, 6=2.0mm, 8=3.0mm
	x : 3=Blue, 5=Green, 6=Brown, G=Beige
ex : Connector Kits MU/PC 900μm SM(Brown) Simplex with Ferrule = 1F48112001601	

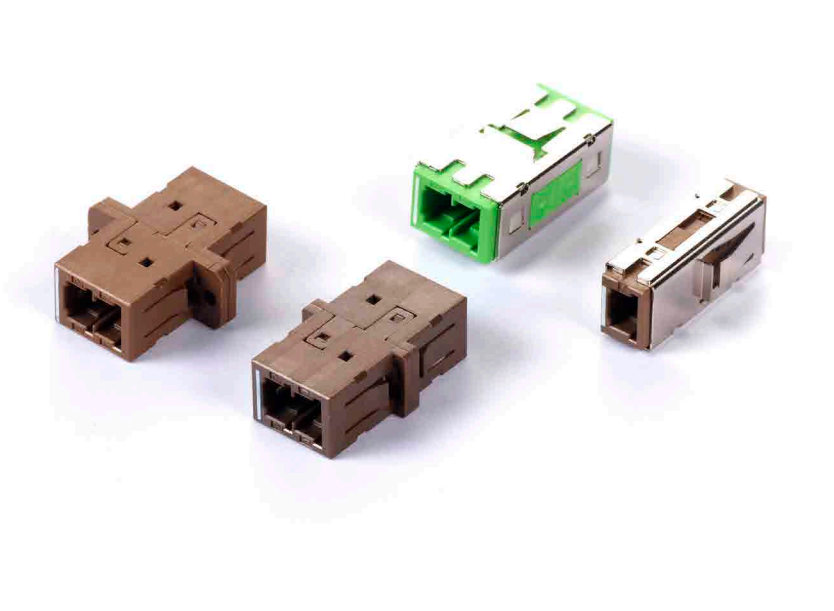✻ Please contact us for other configurations.

MU Adapter

Features

* High precision alignment
* Easy installation
* Simplex and Duplex versions for your option
* Duplex with internal shutter for SC footprint application
* RoHS and Reach Compliant
* Telcordia GR-326, NTT & JIS compliant

unit: mm

MU Adapter

MU Adapter with Shutter

Part Number	Description
	MU Adapter Standard Type Zirconia Sleeve
139abx21c20210C01	a : 1=PC, 2=APC
	b : 2=SM, 4=MM
	x : 1=Simplex, 2=Duplex
	c : 5=Green, 6=Brown
ex : MU/PC Adapter SM(Brown) Simplex = 13912121620210C01	

	MU Adapter Duplex with SC Footprint Zirconia Sleeve
139ab2y1c20110C01	a : 1=PC, 2=APC
	b : 2=SM, 4=MM
	y : 9=with flange, A=without flange
	c : Green, 6=Brown
ex : MC/PC Adaprer SM(Brown) Duplex with Flange SC Footprint Type = 13912291620110C01	

✳ Please contact us for other configurations.

Specifications are subject to change without prior notice.
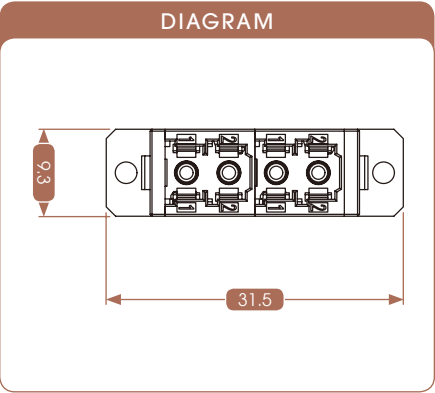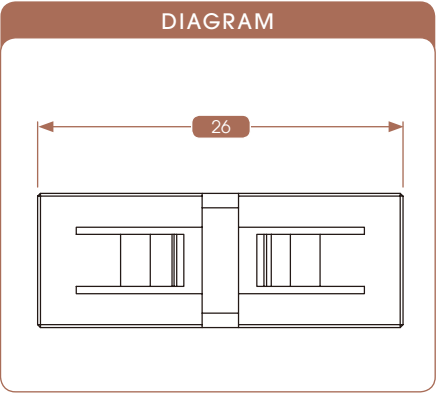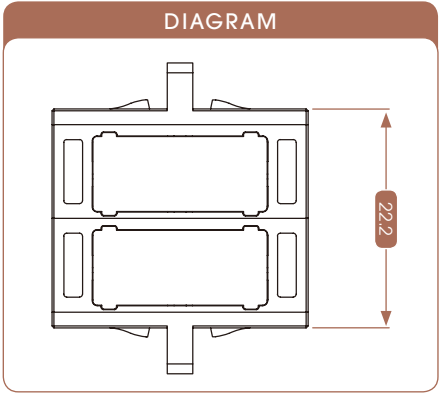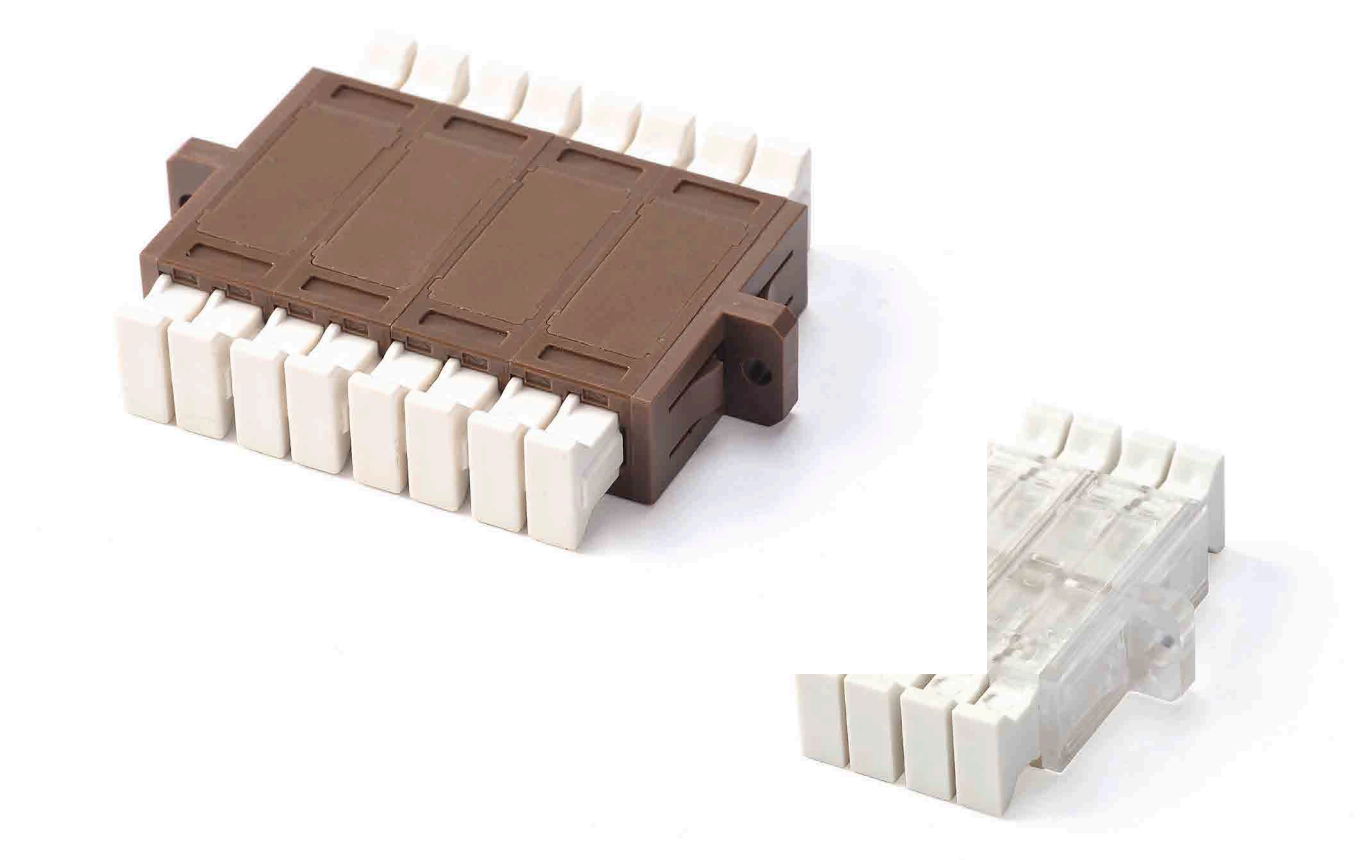

MU Stackable Adapter

Features

★ PATENTED ★

* Ultra Flexible
* Stackable multiple rows and columns
* High Density
* Variety Colors
* New One Piece Design, stronger and stable

unit: mm

MU One-Piece Stackable

DIAGRAM	DIAGRAM	DIAGRAM

22.2

26

9.3

31.5

Specifications are subject to change without prior notice.

H Connector Series
HOptic

unit: mm

Features

* Unique Product - USA Patent no.
  US 9,016,954 B2 & European Patent
  no. 2592452
* Design and Test - meets Telcordia
  GR-3120 -Core Requirements
* Complies with GR-326-Core and RoHS
* Meets IP 68 dust and water protection
  (3 meters/7 days) Ratings
* 500 minimum mating cycles
* Suitable for Outdoor and Indoor Applications
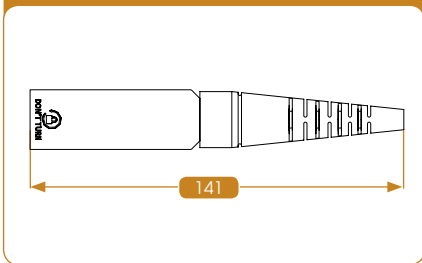
★PATENTED★

HOptic Connector Plug Type

DIAGRAM

95-100

HOptic Connector In-line Receptacle Type

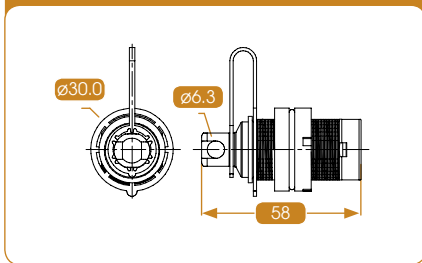**DIAGRAM**

141
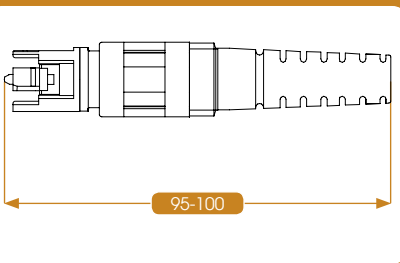
HOptic Receptacle

DIAGRAM

ø30.0   ø6.3
58

HOptic Connector Plug Type + HOptic Receptacle

Before Assembly   ▶   After Assembly

HOptic Connector In-line Receptacle Type + HOptic Connector Plug Type

To eliminate indoor/outdoor transition boxes when connecting to indoor ONTs.

Before Assembly   ▶   After Assembly

▼ Specifications

Parameters	Specifications	
Connector Types	SC, LC Duplex	MT
Insertion Loss	≦ 0.30dB	≦ 0.75dB
Return Loss	≧ 50dB (PC), 55dB (UPC), 60dB (APC)	≧ 50dB (APC)
Operation Temperature	-40 °C to 70 °C	
Storage Temperature	-40 °C to 85 °C	

Specifications are subject to change without prior notice.
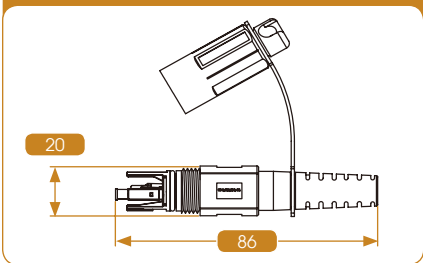

H Connector Series
LC-H

unit: mm

Features

* Unique Product - USA Patent no. US
  10,908,365 B2; US 11,125,952 B2
* Design and Test - meets Telcordia GR-
  3120 -Core Requirements
* Complies with GR-326-Core and RoHS
* Meets IP 68 dust and water protection (3
  meters/7 days) Ratings
* 500 minimum mating cycles
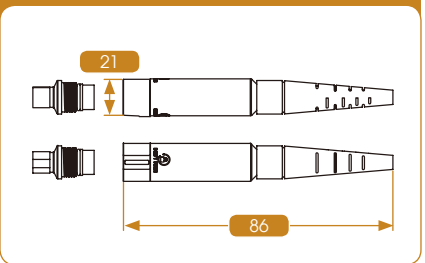* Suitable for Outdoor and Indoor Applications

★PATENTED★

LC-H Connector Plug Type

DIAGRAM

20
86

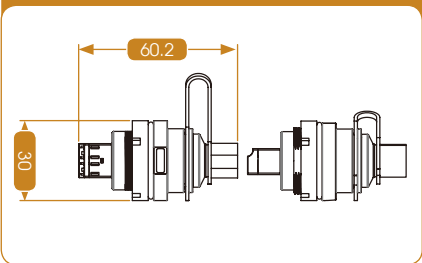### LC-H In-line Receptacle Type

DIAGRAM

21
86

LC-H Bulkhead Receptacle Type

DIAGRAM

60.2
30

LC-H Connector Plug Type + LC-H Bulkhead Receptacle Type

Before Assembly   ▶   After Assembly

LC-H Connector Plug Type + LC-H In-line Receptacle Type

To eliminate indoor/outdoor transition boxes when connecting to indoor ONTs.

Before Assembly   ▶   After Assembly

▼ Specifications

Parameters	Specifications	
Connector Types	SC, LC Duplex	MT
Insertion Loss	≦ 0.30dB	≦ 0.75dB
Return Loss	≧ 50dB (PC), 55dB (UPC), 60dB (APC)	≧ 50dB (APC)
Operation Temperature	-40 °C to 70 °C	
Storage Temperature	-40 °C to 85 °C	

Specifications are subject to change without prior notice.

IP Connector Series
LC-IP

Gloriole's LC-IP Connector is designed to provide an outdoor LC-based sealed connection to a board mounted SFP within a sealed enclosure.

unit: mm

★ PATENTED ★

Features

* Bird proof and rodent resistant
* IP68 water and dust protection
* Available with singlemode or multimode fiber
* 500 minimum mating cycles
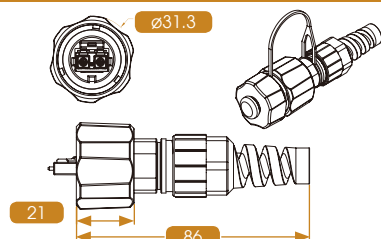* Operating temperature: -40° to 85°C
* RoHS compliant
* Bayonet mating style

Benefits

* Blind mate and scoop proof interface
* Mates to standard LC simplex or duplex assemblies
* Easily installs without special tooling
* No internal jumper needed
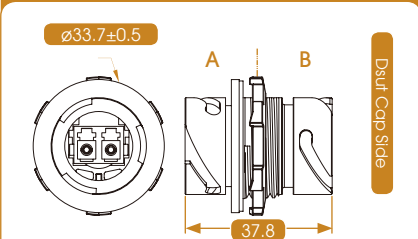* Direct connect to active device (SFP, SFP+, RJ)

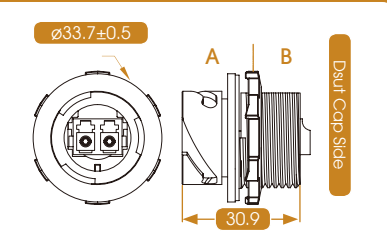| LC-IP Connector Plug Type	LC-IP In-line Receptacle Type	LC-IP Bulkhead Receptacle Type

DIAGRAM

ø31.3

21

86

DIAGRAM

ø33.7±0.5

A   B

37.8

Dsut Cap Side

DIAGRAM

ø33.7±0.5

A   B

30.9

Dsut Cap Side

LC-IP Connector Plug Type + LC-IP Bulkhead Receptacle Type

Before Assembly

After Assembly

LC-IP Connector Plug Type + LC-IP In-line Receptacle Type

To eliminate indoor/outdoor transition boxes when connecting to indoor ONTs.

Before Assembly

After Assembly

▼ Specifications

The system is designed to provide IP67 dust and water protection when connector and receptacle are mated or with dust caps installed.
Plug cap includes integrated pulling eye for easy installation. Gloriole's LC-IP assemblies are exceptionally suited for WiMax, LTE, wireless, wireless backhaul and base station applications.

ITEM	LC-IP Connector Plug Type	
Mode Type	Single Type	Multi Type
Insertion Loss	P Grade ≦ 0.15dB, A Grade ≦ 0.3dB	
Return Loss	≧ 50dB(**C**), 55dB(**UPC**), 60dB(**APC**)	x
Durability	< 0.2dB change, 500 mating	
IP Rating	IP68	
Operation Temp.(°C)	-40°C~ +85°C	

IP Connector Series
MT-IP

Gloriole's MT-IP series product are designed to provide outdoor sealed connection in multi-fibers to mate sealed enclosure.

unit: mm

★ PATENTED ★

Features

* Modular and bayonet style mating easy to field installation
* Minimum 500 cycles mating durability
* IEC 61076-3-106 interface
* RoHS REACH compliant

Applications

* RRU/BTS/NodeB/eNodeB
* CTJ Box in FTTA
* Macro/Micro Cell and BSS in 4G LTE-A & 5G
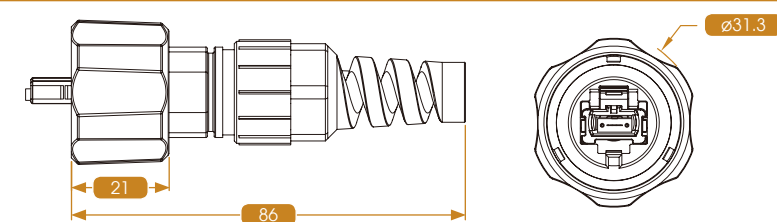* Industrial Control/ Automation for industry 4.0

MT-IP Connector Plug Type	MT-IP In-line Receptacle Type	MT-IP Bulkhead Receptacle Type

DIAGRAM

ø31.3

21

86

MT-IP Connector Plug Type + MT-IP Bulkhead Receptacle Type

Before Assembly

After Assembly

MT-IP Connector Plug Type + MT-IP In-line Receptacle Type

To eliminate ind   oor ONTs.

Before Assembly

After Assembly

▼ Specifications

The series product provides IP68 grade dust and water proof requirement; resistant to chemical and gasses corrosion in harsh environments.
With ODVA compatible design, MT-IP series product widely used in many industrial applications: LTE, industrial automation and outdoor distributed antenna system.

ITEM	MT-IP Connector Plug Type	
Mode Type	Single Type	Multi Type
Insertion Loss	Standard ≦ 0.15dB, Low loss ≦ 0.35dB	≦ 0.6dB
Return Loss	≧ 55dB(**APC**)	x
Durability	< 0.3dB change, 500 mating	
IP Rating	IP68	
Operation Temp.(°C)	-40°C~ +75°C	
Storage Temp.(°C)	-40°C~ +85°C	

IP Connector Series
SC-IP

Gloriole's SC-IP Connector is designed to provide an outdoor SC-based sealed connection to a board mounted SFP within a sealed enclosure.

unit: mm

Features

★PATENTED★

* Field Installable
* Meet IP68 ratings
* IEC60603-7 Standard
* Harsh Environment Application
* Simple Connection

Benefits

* Blind mate and scoop proof interface
* Mates to standard SC simplex or duplex assemblies
* Easily installs without special tooling
* No internal jumper needed
* Direct connect to active device (SFP, SFP+, RJ)

SC-IP in-line Receptacle

SC-IP Connector Plug Type

SC-IP Connector Plug Type + SC-IP Bulkhead Receptacle

DIAGRAM

Ø30   Ø30

31   95
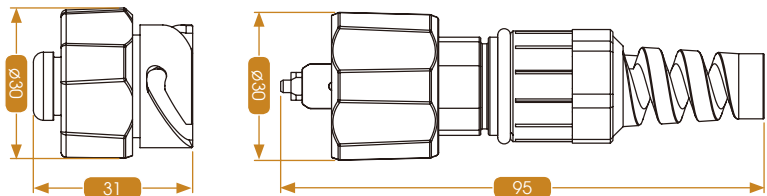
SC-IP Connector Plug Type + LC-IP Bulkhead Receptacle Type

Before Assembly

After Assembly

SC-IP Connector Plug Type + LC-IP In-line Receptacle Type

To eliminate i...NTs.

Before Assembly

After Assembly

Specific...

The system is designed to provide IP68 dust and water protection when connector and receptacle are mated or with dust caps installed.
Plug cap includes integrated pulling eye for easy installation. Gloriole's SC-IP assemblies are exceptionally suited for WiMax, LTE, wireless, wireless backhaul and base station applications.

ITEM	SC-IP Connector Plug Type	
Mode Type	Single Type	Multi Type
Insertion Loss	P Grade ≦ 0.15dB, A Grade ≦ 0.3dB	
Return Loss	≧ 50dB(PC), 55dB(UPC), 60dB(APC)	x
Durability	< 0.2dB change, 500 mating	
IP Rating	IP68	
Operation Temp.(℃)	-40℃~ +85℃	

Specifications are subject to change without prior notice.

Allegro

unit: mm

Features

★PATENT PENDING★
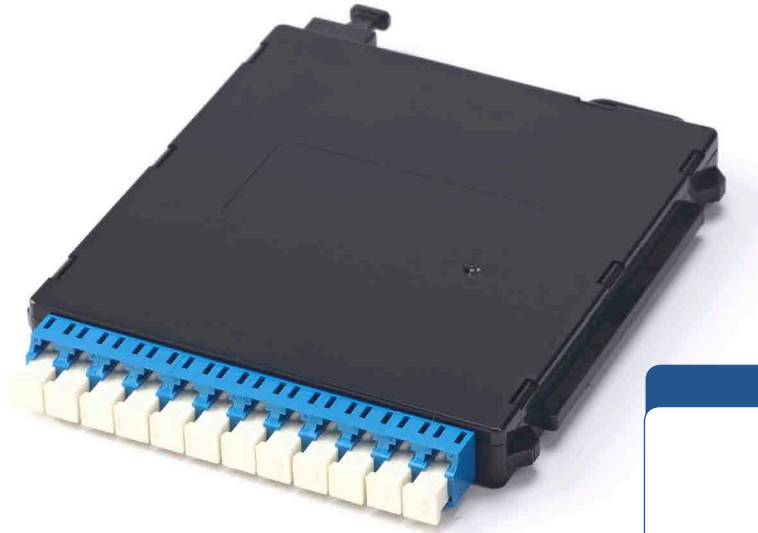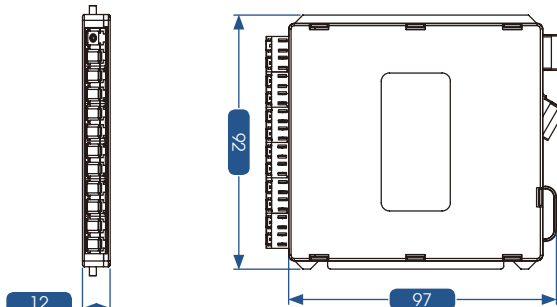
* Removable Cover from 1U
* Easy Installation and adjustment in the rack
* High density Flexibility
* Quick and easy polarity management
* Easier access to module and panels
* Reduce congestion in high Density environment.
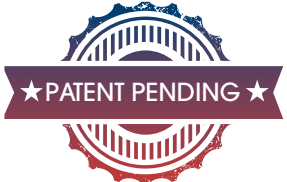
Slim Cassette

DIAGRAM

92   12   97

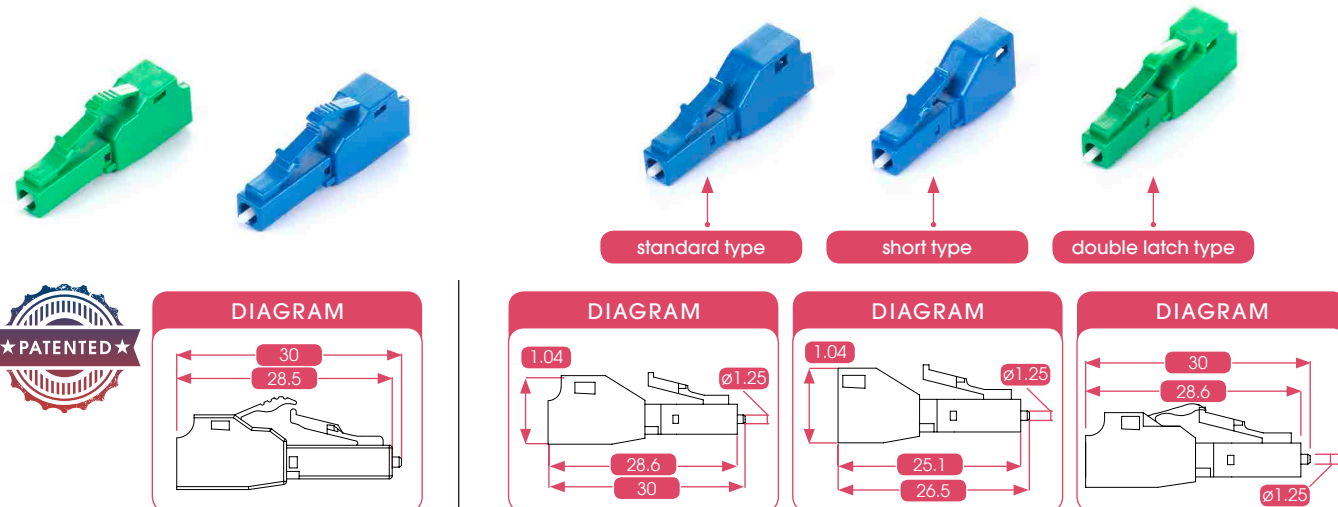### Allegro 1U

Build-out Attenuator (BOA) Plug-in type

unit: mm

Features

* Easy installation - compact design fits into existing connectors or patch panels
* Consistent performance - precise attenuation value and high return loss
* Diversity - various connectors for option
* High Stability and High Reliability
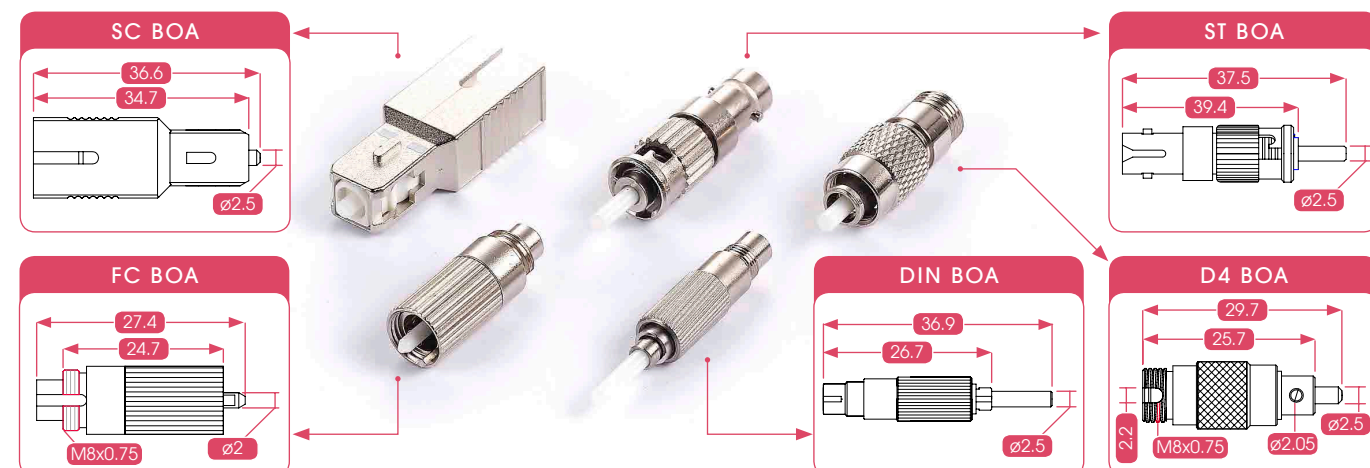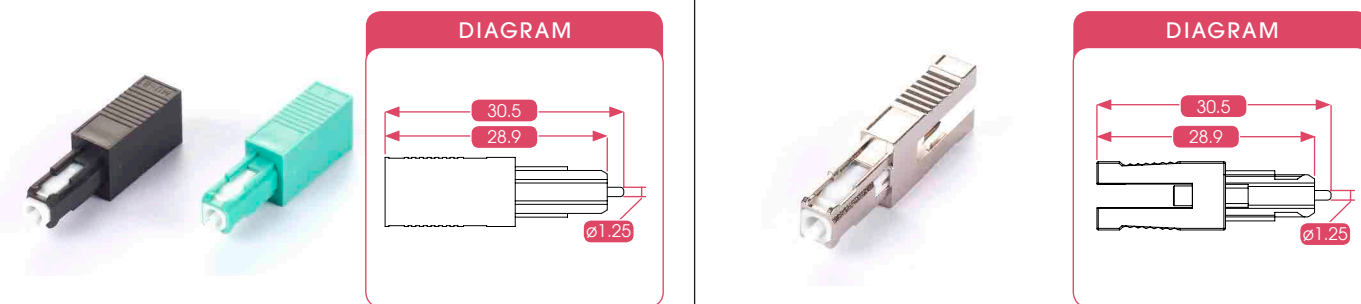* Flawless end face
* Telcordia GR-910-core and RoHS Compliant

LC BOA (One-piece type)

★ PATENTED ★

DIAGRAM
30
28.5

LC BOA

standard type | short type | double latch type

DIAGRAM
1.04
ø1.25
28.6
30

DIAGRAM
1.04
ø1.25
25.1
26.5

DIAGRAM
30
28.6
ø1.25

MU BOA (plastic housing, 6.6mm pitch)

DIAGRAM
30.5
28.9
ø1.25

MU BOA (metal housing, 4.5mm pitch)

DIAGRAM
30.5
28.9
ø1.25

SC BOA
36.6
34.7
ø2.5

FC BOA
27.4
24.7
M8x0.75   ø2

ST BOA
37.5
39.4
ø2.5

DIN BOA
36.9
26.7
ø2.5

D4 BOA
29.7
25.7
2.2   M8x0.75   ø2.05   ø2.5

Specifications are subject to change without prior notice.

Specifications

Specifications	Value	
Item	**Single Mode**	**Multi Mode**
Wavelength	1310nm and 1550nm	850nm
	1310nm or 1550nm	
Attenuation Range	1dB ~ 25dB	1dB ~ 6dB
Attenuation Variation — 0dB	Super ≦ 0.5dB ; Ultra ≦ 0.3dB	≦ 0.5dB
Attenuation Variation — < 6dB	Supe ±0.75dB, Ultra ±0.5dB	≦ 6dB ±1dB
Attenuation Variation — ≧ 6dB	Super ±15%, Ultra ±10%	
Reflectance — PC	≧ 45dB	-
Reflectance — UPC	≧ 50dB	
Reflectance — APC	Super ≧ 60dB ; Ultra ≧ 65dB	
Operation Temperature	-40℃~ 75℃	-40℃~ 75℃
Storage Temperature	-40℃~ 85℃	-40℃~ 85℃

In-line Attenuator

Bulkhead Attenuator

Specifications are
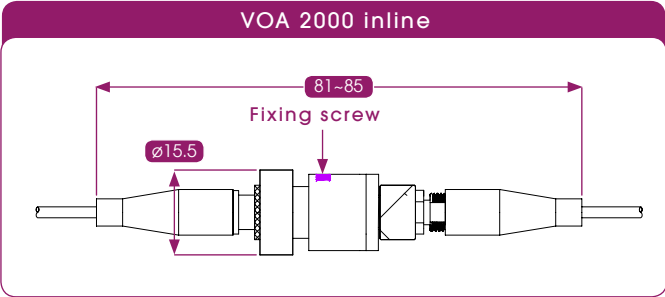
Variable Optical Attenuator

Features

* Environmentally stable
* Easy installation
* Wide attenuation Range
* High performance - Low excess loss, High return loss

unit: mm

Variable Optical Attenuator

VOA 2000 inline

81~85
Fixing screw
ø15.5

Variable Optical Attenuator Module

Hybrid Variable Optical Attenuator

Specifications

		VOA	VOA Module
Operation Wavelength		1310nm or/and 1550nm for SM 850nm or 1300nm for MM	
Variable Range		1dB ~ 35dB for SM 1dB ~ 20dB for MM	
Resolution		0.2dB	
Reflectance	PC	≧ 45dB for SM	
	APC	≧ 50dB for SM	
Adjust Method		Twist by hand	By Screw Driver
Operation Temperature		-40°C~ 75°C	
Storage Temperature		-40°C~ 85°C	

Part Number	Description
1824151516201010	VOA 1~35dB SM LC/PC-LC/PC Simplex 2.0mm 1M
1A145421211	VOA Module 4Channels 1~35dB SM SC/UPC, 205x101x37mm

✻ Please contact us for other configurations.

Hybrid Adapter & Attenuator

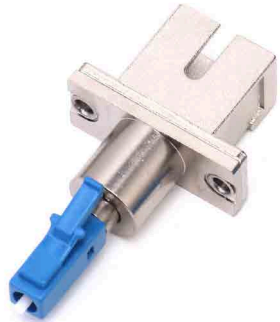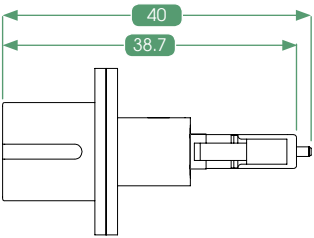unit: mm

Features

* Easy installation - compact design fits into existing connectors or patch panels
* Consistent performance - precise attenuation value and high return loss
* Diversity - various connectors for option
* High Stability and High Reliability
* Flawless end face
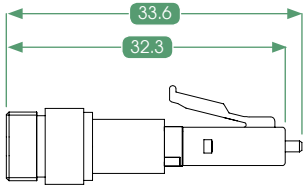* Telcordia GR-910-core and RoHS Compliant

LC(Male)-SC(Female) Hybrid

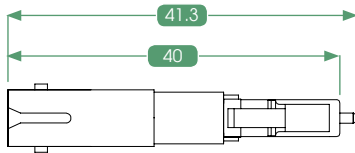DIAGRAM

40
38.7

LC(Male)-FC(Female) Hybrid

DIAGRAM

33.6
32.3

LC(Male)-ST(Female) Hybrid

DIAGRAM

41.3
40

SC(Male)-LC(Female) Hybrid
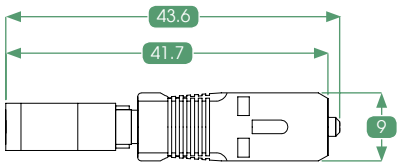
DIAGRAM

43.6
41.7
9

SC(Male)-FC(Female) Hybrid

DIAGRAM

29.7
27.8
9

SC(Male)-ST(Female) Hybrid

DIAGRAM

37.5
35.6
9

FC(Male)-LC(Female) Hybrid

DIAGRAM

41.8
37.8
10.4
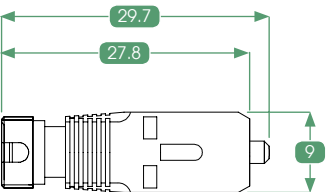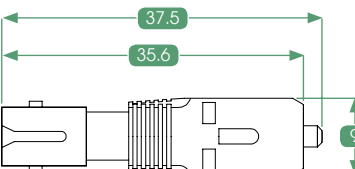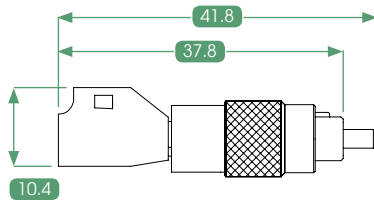
FC(Male)-SC(Female) Hybrid

DIAGRAM

36.3
32.1
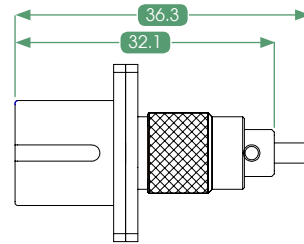
FC(Male)-ST(Female) Hybrid

DIAGRAM

37.4
33.4
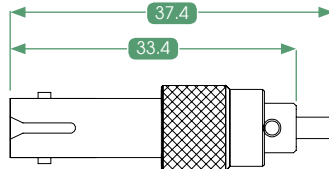
Specifications

Specifications	Value	
Item	Single Mode	Multi Mode
Wavelength	1310nm and 1550nm	850nm and 1310nm
	1310nm or 1550nm	850nm or 1310nm
Attenuation Range	0dB ~ 30dB	0dB ~ 20dB
Insertion Loss (0 dB)	≦ 0.5dB	≦ 0.5dB
Precision < 10dB	Super ±0.5dB, Ultra ±0.75dB	±1dB
Precision ≧ 10dB	Super±10%, Ultra ±15%	±15%
Reflectance PC	≧ 45dB	-
Reflectance UPC	≧ 50dB	-
Operation Temperature	-40℃~ 75℃	-40℃~ 75℃
Storage Temperature	-40℃~ 85℃	-40℃~ 85℃

Specifications are subject to change without prior notice.

Specifications are subject to change without prior notice.
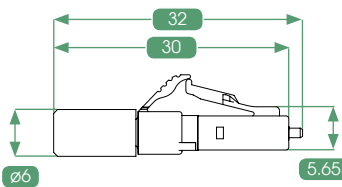
Hybrid Adapter & Attenuator

Terminator

unit: mm

Features

* High power endurance
* Low backreflection
* High reliability
* Flawless end face

LC Terminator

DIAGRAM
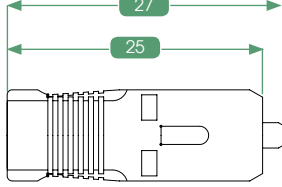
32
30
ø6
5.65

SC Terminator
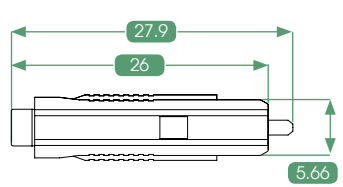
DIAGRAM

27
25
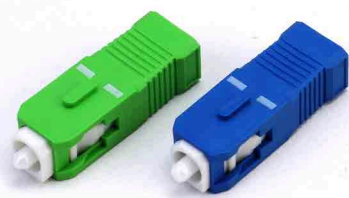
MU Terminator

DIAGRAM

27.9
26
5.66
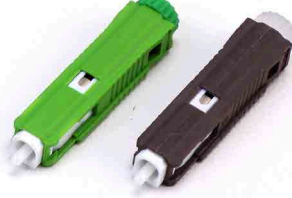
FC Terminator

DIAGRAM

20
16
ø10
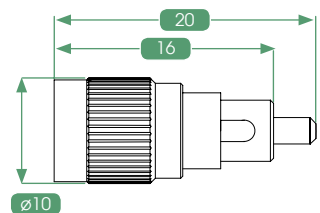
ST Terminator

DIAGRAM

32
24
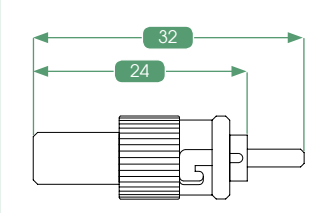
Specifications

Performance		Value
Wavelength(Single Mode)		1310nm and 1550nm
Plug Type		SC, FC, LC, MU, ST
Reflectance (dB)	PC	≧ 50dB
	UPC	≧ 55dB
	APC	≧ 65dB

Part Number	Description
1D15201	Terminator LC/PC
1D54201	Terminator SC/PC
1D48201	Terminator MU/PC
1D11201	Terminator FC/PC
1D60201	Terminator ST/PC

＊ Please contact us for other configurations.

Switch

With superb optomechanical integrated design and advanced assembly skill, GET's fiber 1xN optical switch provide excellent optical performance and reliable long-term operation.
It is suitable for laboratory, measurement, light path switching, and fiber monitoring in fiber optics communication and fiber sensing field.

unit: mm

Features

* Wide Operation Wavelength Range.
* Multiple control methods.
* Fast channel switching.
* Low insertion loss & crosstalk.
* GR-1073 & GR-1221 Compliant.

Applications

* RFTS
* Fiber sensing
* Fiber network monitoring
* Fiber Optical Protection
* Measurement automation
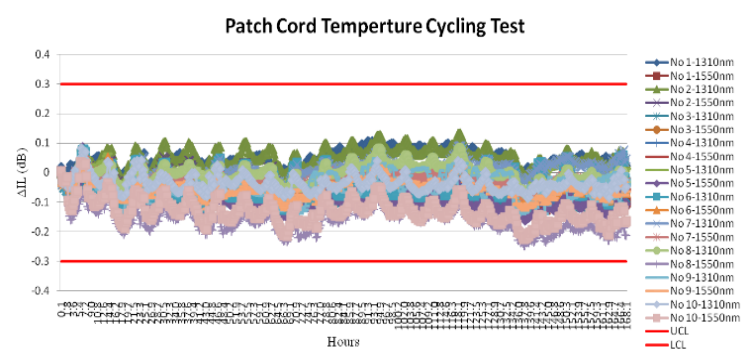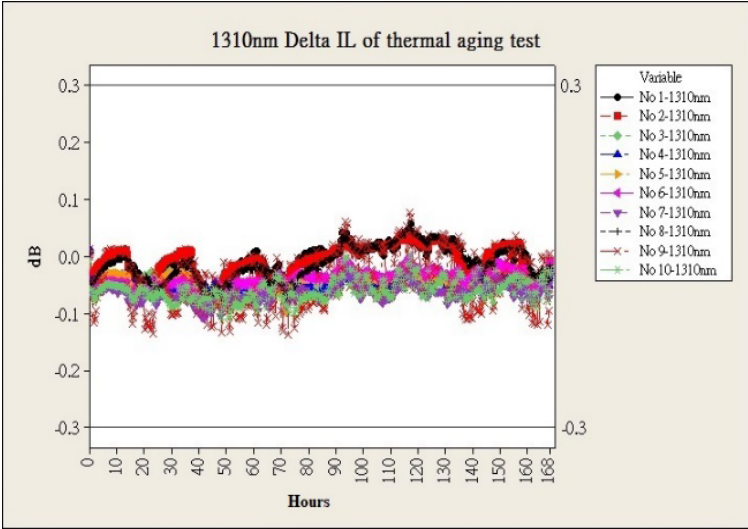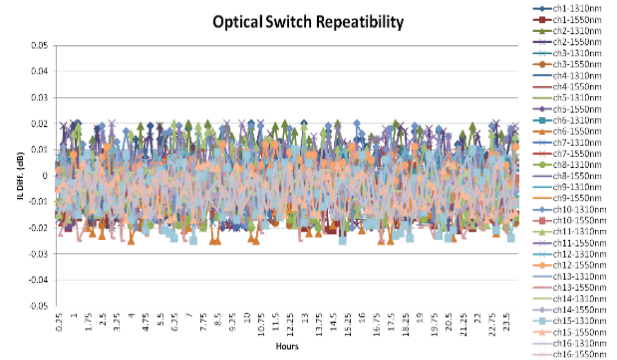
1xN optic switch (mount)

s1xN optic switch (black)

Specifications

Most important characteristic of optical switch is channel repeatability.
It will affect the accuracy of optical device performance test during long term measurement.
Within ±0.03 dB of channel repeatability (Fig. 1), GET's 1xN optical switch series is suitable for fiber optics component testing in lab and manufacturing.
Figures 2 and 3 are part of GR-326-CORE environmental testing for product verification.

1310nm Delta IL of thermal aging test

Optical Switch Repeatability

Patch Cord Temperature Cycling Test

MEMO