KINGTON

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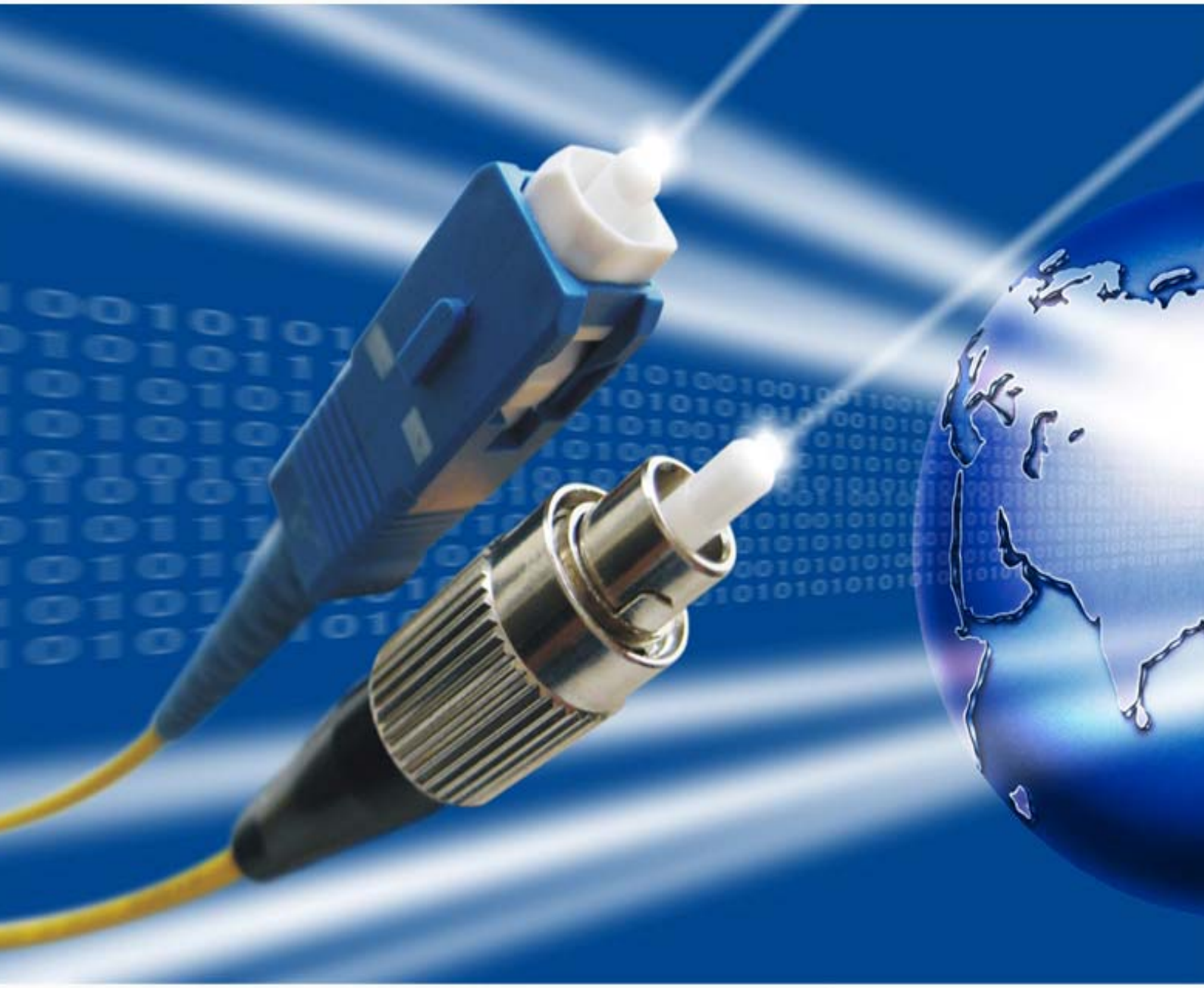

Fiber Optic System

www.kingtonoptic.com

KINGTON

Shenzhen KINGTON Optic Co.Ltd.,as a high-tech enterprise,is found in 2005 and engage in R&D,production and exporting fiber optic equipments.Equipped with international artworks and test equipments,brought advanced management mode,our company attracts many optical technology elite,all of them work and make great distribution to world optical telecommunications for more than 10years.

Main products include optical passive products such as optical splitter,fiber array(FA),fiber patch cord,connector,adaptor,attenuator,fiber splice closure,terminal box,cabinet or patch panel and fiber transmission equipments.In particular,planar waveguide optical splitter(PLC Splitter),because it is advanced technology,not sensitive to the wavelength,good spectral uniformity,resistance to high or low temperature,small size,etc,its performance and stability conforms to Telcordia and ROHS certificate.Now our products are not only exported to Japan,the United States,Korea,Europe and other countries in large quantity,but also the first choice of FTTH project in China.All our products passed strict test of National Information Product Protection Performance Supervision and Inspection Center,and get ISO9001:2008 certificate.

The aim of KINGTON is to be the leading manufacturer in the world.We constantly absorb in and cultivate excellent engineers,invest in basic technology research and development,keep cost innovation and optimize company management procedure,now we are going well on this

Reception

Office

PLC Splitter Alignment Machine

Patch Cord Interferometer Testing

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Fiber PLC Splitter

KINGTON Fiber Optic System

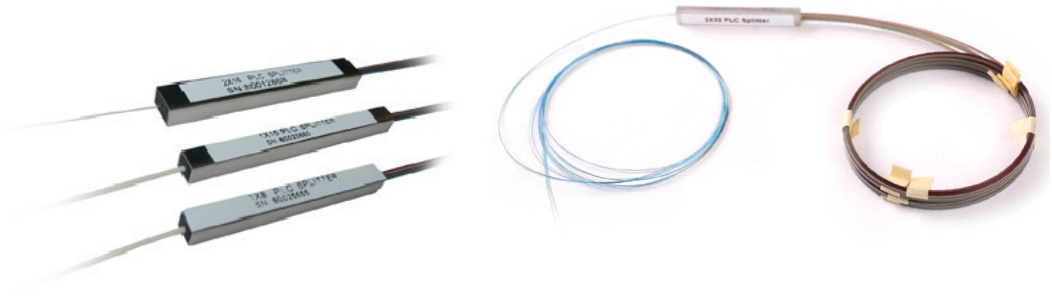
It is used for small spaces can be easily placed in a formal joint boxes and splice closure, In order to facilitate welding, does not need specially designed for space reserved. KINGTON PLC splitter family features either ribbon or individual fiber output, KINGTON provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All splitters provide guaranteed optical performance and high reliability that meet GR-1209-CORE and GR-1221-CORE requirements.

Applications:

- Fiber to The Point (FTTX)
- Fiber to The Home (FTTH)
- Passive optical networks(PON)
- Local Area Networks (LAN)
- Cable Television (CATV)
- Test Equipment

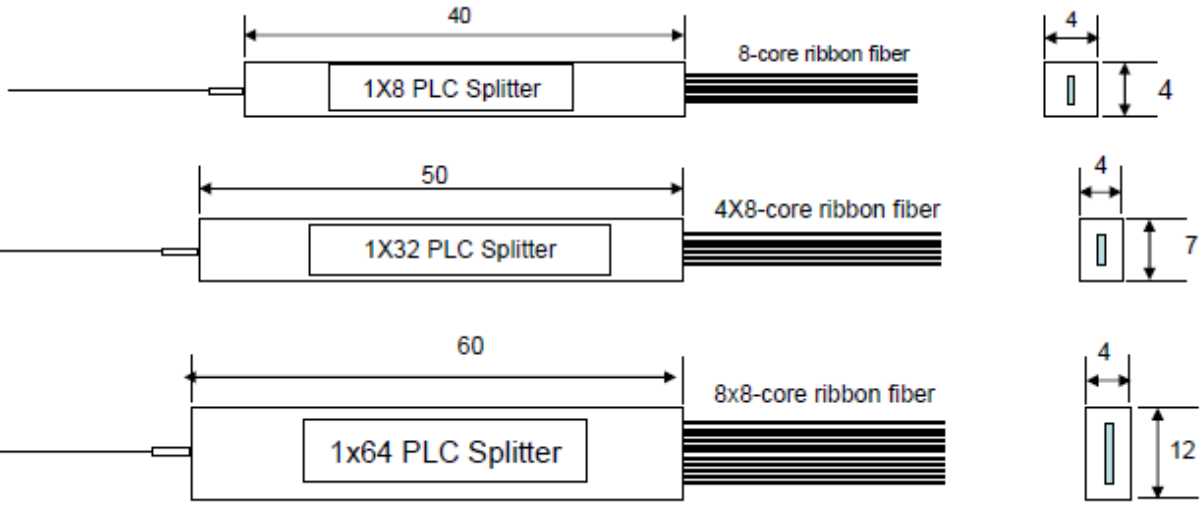
Features:

- Good uniformity and low insertion loss
- Low Polarization Dependent Loss
- Excellent Environmental Stability
- Excellent Mechanical
- Stability Telecordia GR-1221 and GR-1209



Package Drawings:

Port	1x2	1x4	1x8	2x4	2x8	1x16	2x16	1x32	2x32	1x64
WxHxL (mm)	4x4.5x45					4x7x50				4x12x60



KINGTON Fiber Optic System

PLC splitter with fan-out is mainly used for 0.9mm optical fiber where the ribbon fiber can converted to 0.9mm optical fiber through fan-out, Fiber adapters can be provided both for the input and output ends of this kind of splitters so that they can be used directly to meet the low demand on the size of the splitter, for instance all kinds of precision splitter insertion box and splitter wall-mounted cabinets. KINGTON PLC splitter family features either ribbon or individual fiber output, KINGTON provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All splitters provide guaranteed optical performance and high reliability that meet GR-1209-CORE and GR-1221-COR

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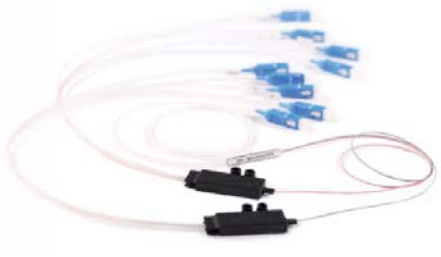
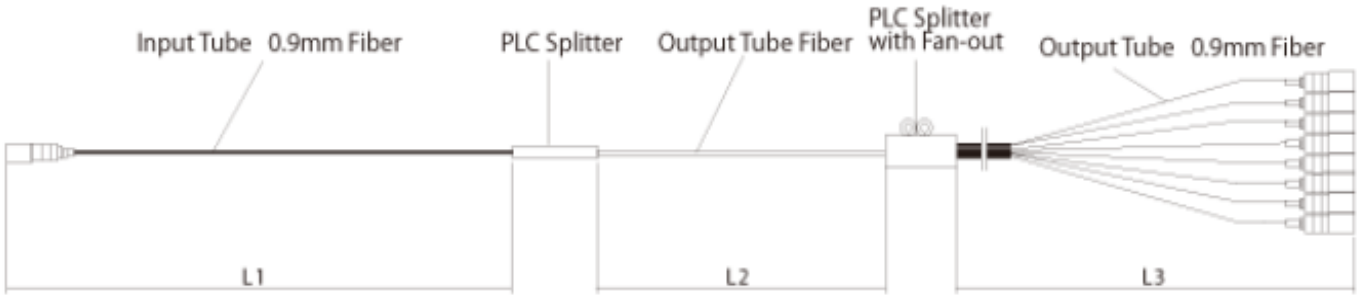


Package Drawings:

Port	1x2	1x4	1x8	2x4	2x8	1x16	2x16	1x32	2x32	1x64
WxHxL (mm)	4x4.5x45					4x7x50				4x12x60



KINGTON Fiber Optic System

Mini Module PLC splitter uses PLC & Package technology to split one wavelength into many ports, from 4 ways to 32 ways. It has no fan-out block so you can save space and achieve smaller splitter modules. KINGTON PLC splitter family features either ribbon or individual fiber output, KINGTON provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All splitters provide guaranteed optical performance and high reliability that meet GR-1209-CORE and GR-1221-CORE requirel

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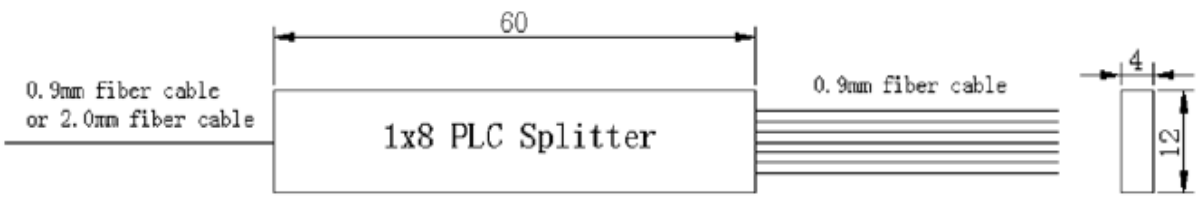
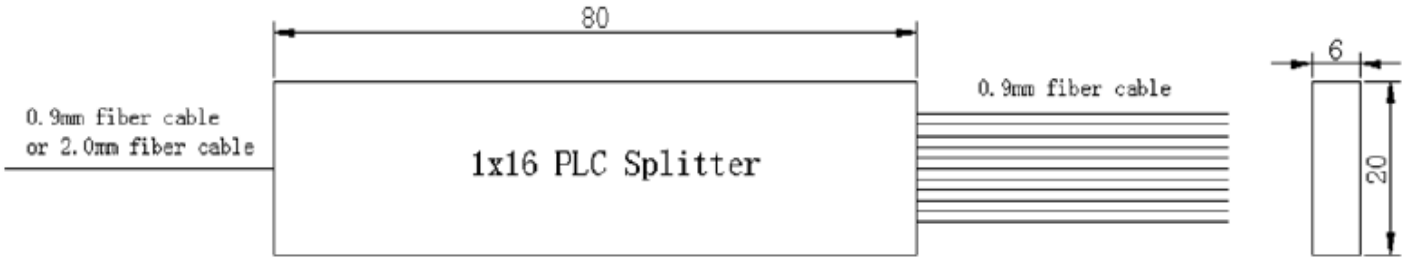
Package Drawings:

Port	1x2	1x4	1x8	2x4	2x8	1x16	2x16	1x32	2x32	1x64
WxHxL (mm)	4x7x60					4x12x60		6x20x80		6x20x80





KINGTON Fiber Optic System

KINGTON offers a variety of cassette or box type splitter products that are connectorized and/or pluggable. PLC Splitter Modules are available in the form of either plastic module cassette, or LGX metal box with fiber diameters up to 3 mm. We also provide customized design for customer specific applications. KINGTON PLC splitter family features either ribbon or individual fiber output, KINGTON provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All splitters provide guaranteed optical performance and high reliability that meet GR-1209-CORE and GR-1221-CO

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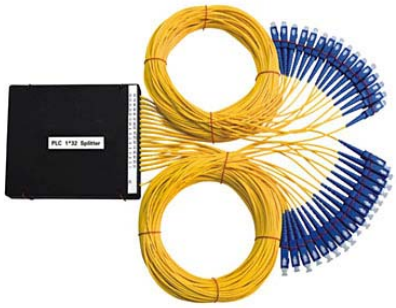
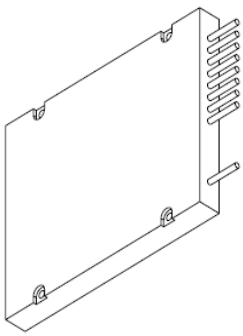
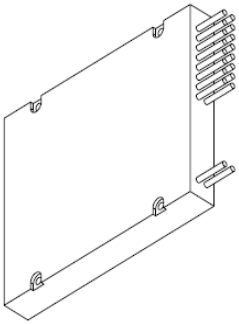
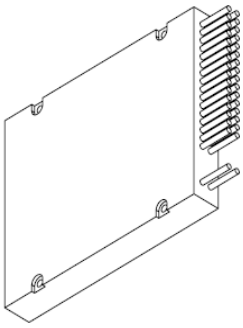


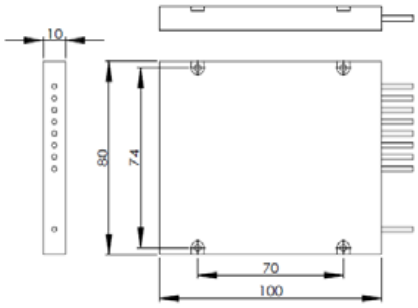
Package Drawings:

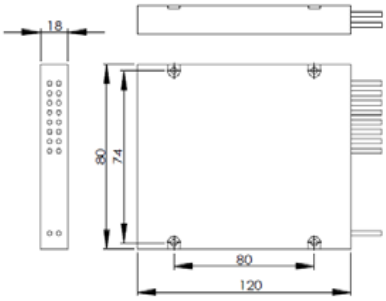
Port	1x2	1x4	2x4	1x8	2x8	1x16	2x16	1x32	2x32	1x64	2x64
WxHxL (mm)	100x80x10					120x80x18		142x102x14.5 /141x115x18		141x115x18	

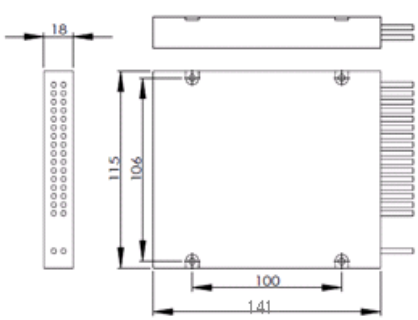












KINGTON Fiber Optic System

For field applications, KINGTON offers a variety of box type splitter products that are connectorized or pluggable. PLC Splitter Boxes are available in the form of either ODF, rack-mount or wall-mount box with fiber diameters up to 3 mm. These rugged products give field engineers great ease in handling and installation and are suitable for both indoor and outdoor applications. We also provide customized design for customer specific application. KINGTON PLC splitter family features either ribbon or individual fiber output, KINGTON provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All splitters provide guaranteed optical performance and high reliability that meet GR-1209-CORE and GR-1221-CORE requirements..

Applications:

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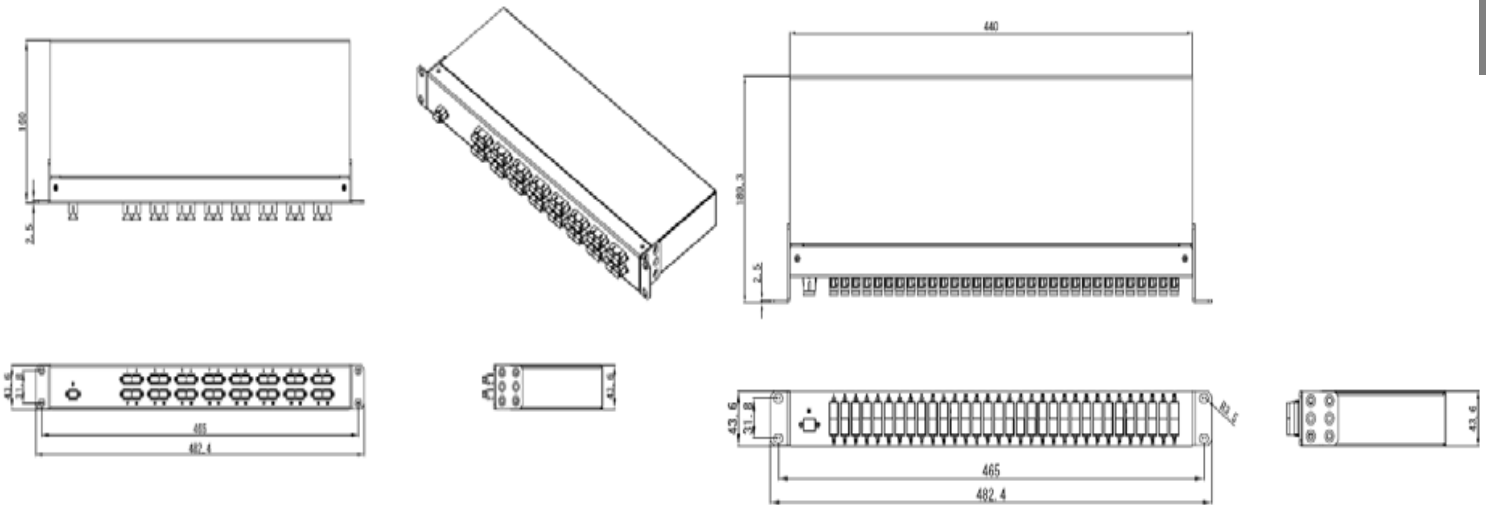
Package Drawings:



PLC Splitter 19” 1U Rack mount

PLC Splitter 19” 2U Rack mount

PLC-Splitter-LGX Box

PLC splitters are based on the Planar Waveguide Technology. They provide a cost
effective and space saving networking solution. They are key components in FTTX
networks and are responsible to distribute the signal from central office to numbers of premises. They have very wide range of operating wavelength from 1260nm to 1620nm. With it's compact size, these splitters can be utilized in in-ground and aerial pedestals as well as rack mount systems.

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PLC-Splitter-FOSC

PLC-Splitter-FOSC adopt modified plastic with high strength and corrosion resistance, so the closure has a longer lifetime and excellent sealing performance.
It is especially suitable for using optical splitter.
It applies to PLC splitter with max ratio 2:32 or 2*2:16
Max quantity of SC adapter: 36 pcs (other types of adapter can be customized)
Max quantity of pigtail: 36 pcs of SC/PC - 1.5meters
Various optional sealing accessories for soft cable
Splitter and pigtails can be pre-installed,so it just needs to connect the cable in the field,
which will shorten the construction time and improve work-efficiency

PLC-Splitter-Wall Box

Wall mountable Splitter Box provides a flexible fiber management system for transitioning outside plant cable to inside cable and connectorized assemblies. Ensures professional splitting and branching of fiber based on bandwith requirements
with mechanical splitters on wall mountable applications and provides professional cable management

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PLC-Splitter-Tray

Used for splitter installation,safe and easy
Mainly used in cross-connect cabinet,ODF,ODF unit
Compatible with connection modules

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KINGTON Fiber Optic System

PLC Splitter Specifications:

Parameter	Specification											
Operating Wavelength (nm)	1260 ~ 1650											
Type	1x2	1x4	1x8	1x16	1x32	1x64	2X2	2x4	2x8	2x16	2x32	2x64
Insertion Loss (dB) Max. *	<4.0	<7.3	<10.8	<14.0	<17.0	<21.5	<4.2	<7.6	<11.2	<14.5	<18.2	<22
Uniformity (dB) Max.*	<0.6	<0.8	<1.0	<1.5	<2.0	<2.5	<0.8	<1.2	<1.5	<2.0	<2.5	<3.0
PDL(dB)Max.*	<0.2	<0.2	<0.2	<0.3	<0.3	<0.4	<0.3	<0.3	<0.3	<0.4	<0.4	<0.4
Directivity (dB) Min *	55											
Return Loss (dB) Min *	55(50)											
Operating Temperature (° C)	-40~ +85											
Storage Temperature (° C)	-40 ~ +85											
Fiber length	1m or custom length											
Fiber Type	Corning SMF-28e fiber											
Connector Type	Custom specified											
Power Handling (mW)	300											

•1.Measured at room temperature and excludes connector loss.
• 2.For devices with connectors, insertion loss will be 0.3dB higher. Return Loss >55dB(APC),>50dB(UPC).

KINGTON Fiber Optic System

KINGTON offers a suit of cost-effective fiber arrays that are available in either quartz, pyrex or silicon materials with flat or angular polished end faces. In addition to satisfying Telcordia reliability requirements, all the fiber arrays feature very low connection loss.

Applications:

- Planar lightwave circuits devices
- Array waveguide grating (AWG's)
- Arrayed active and passive fiber devices
- MEMS devices
- Multi-channel micro-optics modules

Features:

- High precise fiber core-to-core accuracy
- Low insertion loss and high reliability
- High precise angle polish and customer
- product available
- Wide Operating Temperature:
- From -40℃ to 85℃curvature of fibers

Specifications:

Number of Channels	1CH	2CH	4CH	8CH	16CH	32CH	64CH
Material	Silicon, Quartz						
V-groov Pitch (um)	250/127(±0.5)						
Polishing angle (°)	0° (± 0.3°) or 8° (±0.3°)						
Pigtail Type	250/ 900um	2core 250/ 900um	4core Ribbon	8core Ribbon	2*8core Ribbon	4*8core Ribbon	8*8core Ribbon
Channel Spacing (um)	250	250	250	127	127	127	127
Working temp (℃)	—40~+85						
Storage temp (℃)	—40~+85						
Fiber length	1m or on customer's request						
Fiber display	Input or on customer's request						

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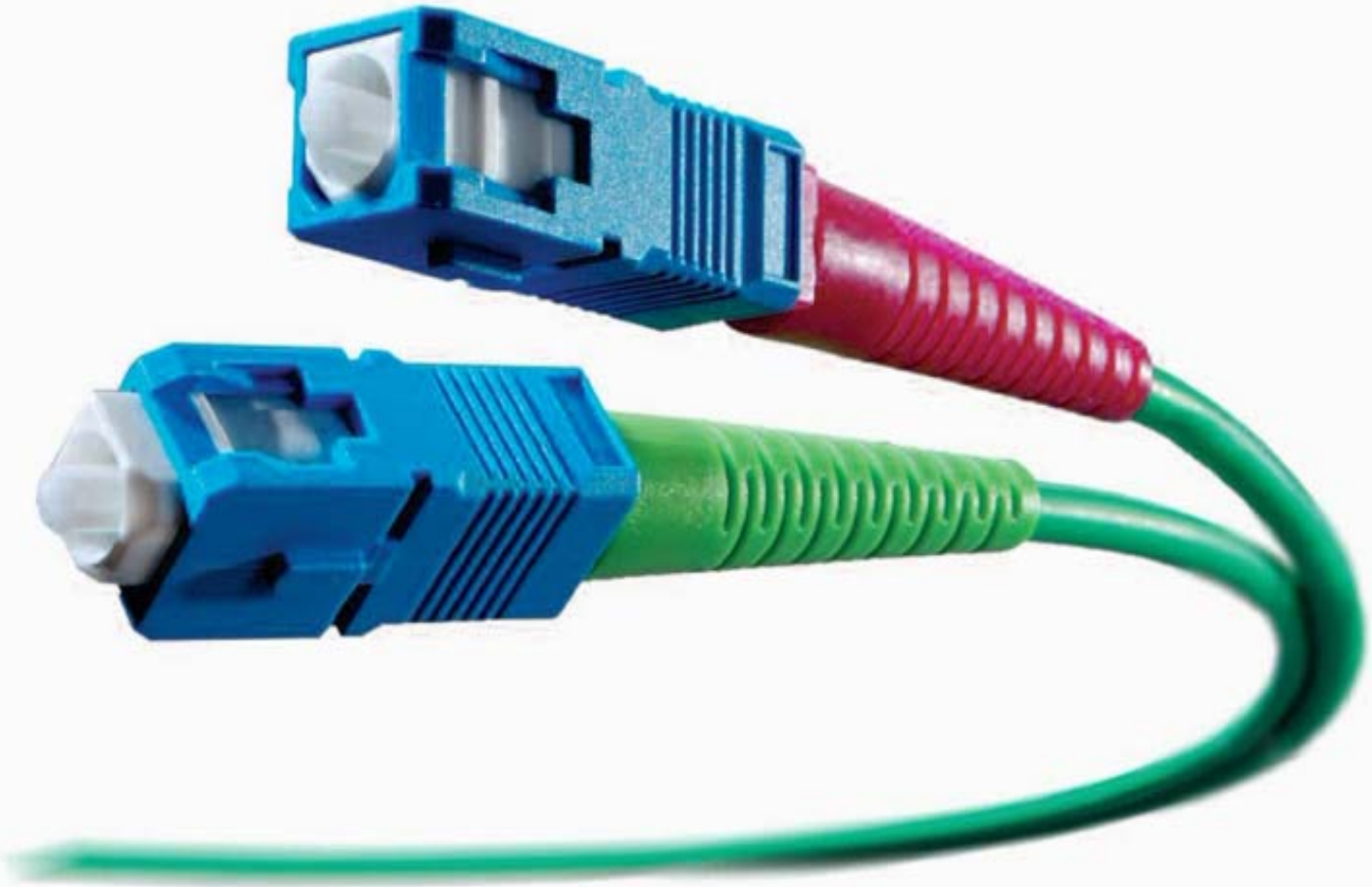


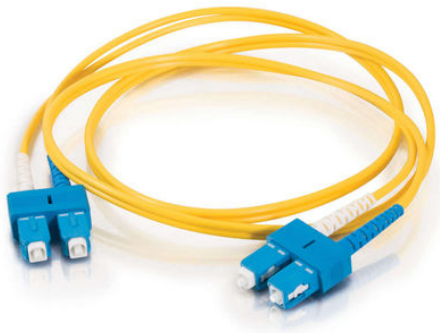
Fiber Passive Series

Patch cord/Pigtail/Connector/Adapter/Attenuators etc...

KINGTON Fiber Optic System

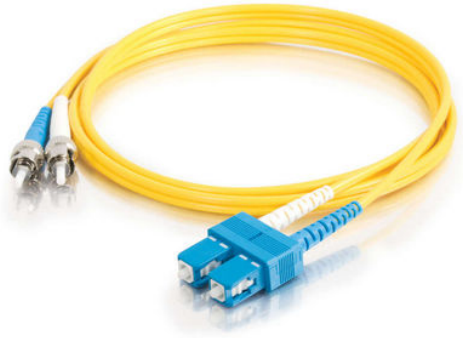
Singlemode Patchcord and Pigtail Information:

Connectorized cable assemblies are cord-type fiber optic cables terminated with connectors at both end.
The type of cable. Fiber and connector and the length of the patch cord can be freely specified by the customer
as shown below. Pigtails are used for terminating fiber optic cables by splicing them the fibers of the cable and
connecting the other end. Supplied with a connector, to a patch panel or directly to equipment.



Feature:

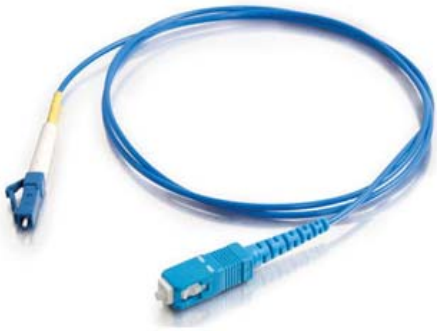
- Compatible with all standard type connector, zirconia ceramic ferrule
- PC / SPC / UPC / APC polishing are also available in zirconia ceramic ferrule
- The Simplex, Duplex Patchcords and pigtails are jacketed with Kevlar Sheath Member, Aramid Yarns and Flame Retardant PVC Material
- Low Insertion Loss and High Return Loss
- Good exchangeability and repeatability
- Every cable assembly is 100% tested and guaranteed to meet all specification
- Identification label provides complete description of IL and RL.
- Customer Lengths and connectors are available upon request
- Refer to the Single Mode Patch Cable datasheet for the specifications
- G.652 and G.655 and G657 fiber, LSZH, Plenum and Hytrel cables available

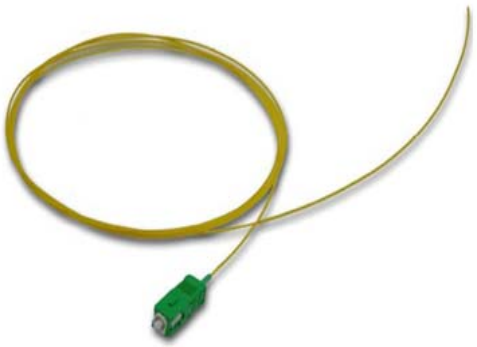


KINGTON Fiber Optic System

Specifications:

Type	Standard,Master
Style	LC,SC,ST,FC.MU,DIN,D4,MPO, SC/APC,FC/APC,LC/APC.MU/APC Duplex MTRJ/Female, MTRJ/Male
Fiber Type	9/125 SMF-28 or equivalent (Singlemade) OS1 50/125, 62.5/125 (Multimode) OM2&OM1 50/125, 10G (Multimode) OM3
Cable Type	Simplex, Duplex (Zipcord) Φ3.0mm, Φ2.0mm, Φ1.8mm Φ1.6mm PVC or LSZH Φ0.9mm, Φ0.6mm buffered fiber PVC or LSZH
Polishing Manner	UPC,SPC,APC (8°)
Insertion Loss	≤ 0.1dB (For Singlemode Master) ≤ 0.25dB (For Singlemode Standard) ≤ 0.25dB (For Multimode) Tested by JDS RM 3750
Return Loss (For Singlemode)	UPC ≥ 50dB SPC ≥ 55dB APC ≥ 60dB (typ.65dB) Tested by JDS RM3750
Repeatability	±0.1dB
Operating temperature	-40^{0}C to 85^{0}C



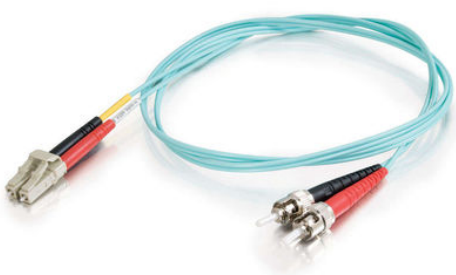


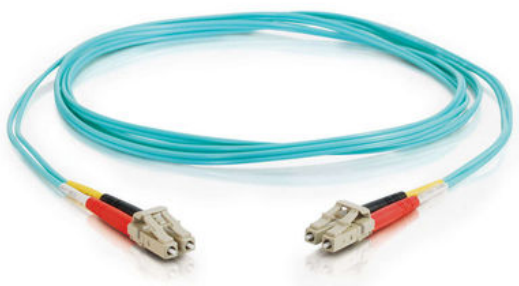
Multimode Patchcord and Pigtail Information:

Connectorized cable assemblies are Patchcords terminated with connectors at both end. The type of cable, fiber and connector and
the length of the patch cord can be freely specified by the customer as shown below. Pigtails are used for terminating fiber optic cables
by splicing them the fibers of the cable and connecting the other end, supplied with a connector, to a p

Feature:

- 50/125 and 62.5/125 and OM3/10G are also available
- Compatible with all standard type connector, zirconia ceramic ferrule, PC polishing
- The Simplex, Duplex Patchcords and pigtails are jacketed with Kevlar Sheath Member, Aramid Yarns and Flame Retardant PVC and LSZH material
- Good exchangeability and repeatability
- Every cable assembly is 100% tested and guaranteed to meet all specification
- Identification label provides complete of Insertion Loss
- Customer Lengths and connectors are available upon request
- For Data communication networks, Local Area Networks, Subscriber transmission system application
- Refer to the Multi Mode Patch Cable dat





Specifications:

Type	Standard,Master
Style	LC,SC,ST,FC.MU,DIN,D4,MPO, SC/APC,FC/APC,LC/APC.MU/APC Duplex MTRJ/Female, MTRJ/Male
Fiber Type	9/125 SMF-28 or equivalent (Singlemade) OS1 50/125, 62.5/125 (Multimode) OM2&OM1 50/125, 10G (Multimode) OM3
Cable Type	Simplex, Duplex (Zipcord) Φ3.0mm, Φ2.0mm, Φ1.8mm Φ1.6mm PVC or LSZH Φ0.9mm, Φ0.6mm buffered fiber PVC or LSZH
Polishing Manner	UPC,SPC,APC (8°)
Insertion Loss	≤ 0.1dB (For Singlemode Master) ≤ 0.25dB (For Singlemode Standard) ≤ 0.25dB (For Multimode) Tested by JDS RM 3750
Return Loss (For Singlemode)	UPC ≥ 50dB SPC ≥ 55dB APC ≥ 60dB (typ.65dB) Tested by JDS RM3750
Repeatability	±0.1dB
Operating temperature	-40^{0}C to 85^{0}C

KINGTON Fiber Optic System

Bundle Fan-out Pigtail

Applications: Applicable to the fusion and distribution of multi-fiber cable andODF.
Features: The fusion and distribution of multi-fiber in ODF available, Variousoptical connectors available,Low insertion loss and high return loss,Excellentreliability and stability.

Ribbon Fan-out Pigtail

Applications: Telecom network,Data transmission,LAN,Test equipments
Features: Clamped connection， easy to operate,Controlled by the end facegeometric parameters,Low insertion loss and high return loss, Excellent relia-bility and stability

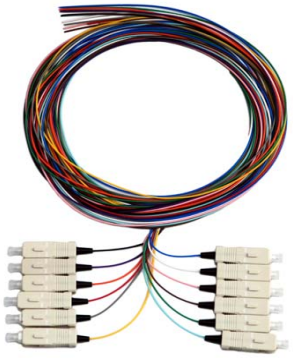
Waterproof Pigtail

Applications: Field fiber CATV,Connection between main cable and opticalreceiver.
Features: Universal waterproof connector, reliable performance,Sealed andwaterproof, high tensile strength,suitable for the poor field environment Flexibleconnector is convenient for fixing,Various types of optical connectors availableLow insertion loss and high return loss.

Armored Fiber Optic Patch Cord

Armored fiber optic patch cord can be made similar outer diameter with the stan-dard patch cords,this make them space saving. can be deployed directly indifferent harsh environment. Without additional tube for protection, reduce con-struction cost,and make the maintenance more conveniently.the stainless steeltube prevents optic fiber from damage,which improves security and stability ofthe system. Furthermore, they can be with different jacket colors and jacket typessuch as OFNR etc. and the armored fiber optic patch cords are actually light weight,the armored fiber optic patchcords can be with SC, ST, FC, LC, MU,SC/APC,ST/APC, FC/APC, LC/APC etc types of terminations.

KINGTON Fiber Optic System



Fiber Optic Pigtails - 12 colors

In order to make each installation and splicing easy KINGTON offers set of 12 color pigtails.Regardless of fiber type pigtails are availablein the following colors: red, green, blue, yellow, white, grey, brown, purple, orange, black, pink, aqua.

Multi-Fiber Assemblies

Fiber counts from 4 to 144Indoor and outdoor applications Single cable assembly with multiple fiber terminationsAvailable in various connector types:Various fiber count and construction types Custom configurations for cable and breakout style/length Single mode and multimode

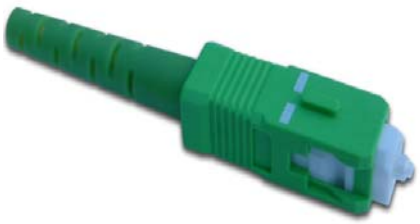
Mode Conditioning Patch Cord

The Mode Conditioning Patch Cord is designed for long wave (-LX) multimodeapplications of Gigabit Ethernet. It is compliant with this IEEE 802.3z applica-tion standard. This patch cord consist of duplex SC connectors on each end ofa cable assembly with a single-mode fiber offset to a multimode fiber connectionin one of the two legs.Benefits: Avoids Different Mode Delay (DMD) signal, Correct offset alwaysmaintained,Aesthetically pleasing,Uses precision ceramic ferrules, Use inplace of standard equipment-to-cable plant patch cord,Functions the same asstandard patch cord

LC Connector

Description：The LC connector holds a single fiber in a 1.25mm ceramic ferrule, half the size of the standardSC ferrule. LC connectors are examples of smallform factor connectors. The connector body ismade of moulded plastic, and features a squarefront profile. An RJ-style latch (like that on aphone jack) on the top of the connector provideseasy, repeatable connections. Two LC connectorsmay be clipped together to form a duplex LC. Thesmall size and push-in connections of LCconnectors make them an excellent choice forhigh-density fiber applications, or for crossconnects.

SC Connector



Description：The SC connector holds a single fiber in astandard-sized (2.5 mm) ceramic ferrule. Theconnector body has a square front profile, and ismade of moulded plastic. Clips on either side ofthe body and the connector key allow for easypush-in connections. This push-pull latchingmechanism makes the SC connector preferred inhigh-density interconnect applications such astelecommunications closets and premise wiring.Two SC connectors may be mounted side by sideon duplex cable. SC connectors have beenpreferred by the TIA/EIA-568-A industrystandard for premise cabling because it is felt tobe easier to maintain the polarity of duplexcables with this type of connector.

FC Connector

Description：The FC connector holds a single fiber in astandard-sized (2.5 mm) ceramic ferrule. Theconnector body is made of nickel-plated brass, andfeatures a key-aligned, threaded locking couplingnut for repeatable, reliable coupling. The threadedcoupling nut provides a secure connector even inhigh-vibration environments, although it takesslightly longer to connect, since it requires turningthe connector instead of a simple push and click.Some FC style connectors exhibit tunable keying,which means the connector key can be tuned toobtain the best insertion loss, or to otherwise alignthe fiber.

KINGTON Fiber Optic System

ST Connector

Description：The ST connector holds a single fiber in astandard-sized (2.5 mm) ceramic ferrule. Theconnector body is made of a plastic composite, andthe connector couples using a twist-lockmechanism. This connector type is often found indata communications applications. The ST isversatile, and very popular, as well as comparablycheaper than some other connector styles.

MU Connector

Description：The MU connector holds a single fiber in aceramic ferrule.
MU connectors are small formfactor connectors that emulate the design of thelarger SC connector. The MU exhibits a squarefront profile and a moulded plastic body thatprovides simple push-pull atching connections.The MU connector is well suited for high-densityapplications.

MTRJ Connector

Description：The MTRJ connector holds a pair of fibers in amonolithic ferrule made of a plastic composite.The ferrule is held inside a plastic body that clipsinto a coupler with an intuitive push and clickmotion, much like the copper RJ-45 jack. Thefibers are aligned by the pair of metal guide pins inthe end of the ferrule of a male connector, whichjoin into guide pinholes on the female connectorinside the coupler. The MT-RJ connector is anexample of a duplex small form factor connector.Having the pair of fibers held by a monolithicferrule makes it easy to maintain the polarity ofconnections, and renders the MT-RJ ideal forapplications such as horizontal fiber runs in facilitycabling.

DIN Connector

Description：DIN connectors .Theyare compact and have spring-loaded freefloating zirconia ferrules for superiorperformance.

KINGTON Fiber Optic System

E2000 Connector

Description：The E2000 connector holds a single fiber in aceramic ferrule. E2000's are small form factorconnectors with a moulded plastic body similar tothat of an LC. The E2000 also exhibits a push-pulllatching mechanism, and integrates a protective capover the ferrule, which acts as a dust shield andshields users from laser emissions. The protectivecap is loaded with an integrated spring to ensureproper closing of the cap. Like other small formfactor connectors, the E-2000 connector is suited forhigh-density applications.

D4 Connector

Description：The D4 connector holds a single fiber in a 2.0 mmceramic ferrule. The D4 connector's body is similarin design to the FC connector, except for the smallerferrule, and a longer coupling nut. Properties andapplications of the D4 are likewise comparable tothe FC.

MP0 Connector

Description：The MPO Fiber Connector use precision molded MT ferrules, together with metal guide pins and precise housing dimensions ensure fiber alignment when mating. Mass termination in combinations of 4, 8, or 12 fiber ribbon cables are available. Single mode versions (with APC Polishing) are offered with premium low-loss or standard and multimode versions (with PC polishing) are also available. Available cable types include bare fiber ribbon and ruggedized ribbon

Features:

- Zirconia ferrule
- Precise dimension
- Low insertion loss
- High return loss
- Convenience and ease of handling
- Environmentally stable

Application:

- CATV Networks
- Active Device Termination
- Industrial and Military
- Instrumentation
- FTTx

Specifications:

- Insertion Loss: Single mode l≤0.20dB & Multimode ≤0.25dB
- Return Loss: UPC ≥50 dB, SPC ≥55 db & APC ≥65 dB
- Durability <0.20 dB typical change, 1000 mating
- Operating Temperature: -40 to 80º C
- Ceramic Ferrule Hole Sizes: Single mode: 125.0 1/-0 μm, Concentricity: ≤1.0 μm, 125.5 1/-0 μm,
- Concentricity: ≤1.0 μm, 126.0 1/-0 μm, Concentricity: ≤1.0 μm Multi mode: 125 μm,
- Concentricity: 1≤3 μm or 127 μm, Concentricity: 1≤3 μm or 128 μm, Concentricity: 1≤3 μm

KINGTON Fiber Optic System

Fast Connector

Description:Optical fast connector takes use of the latest generation of Rapid Ready-Terminal technology. After terminating, both the optical and mechanical performances reach the standard for patchcord and meet the demand for making patchcord on site by mechanical splicing.

Features:

•Low insertion loss and back reflection loss -Extremely easy for operation
•Short operation time.
•No need of epoxy,
•No need of polishing (for PC)

Applications:

•FTTxRebuilding the wiring in optical equipments rooms.

Availability:

•Following types of connector is available:SC/PC 、FC/PC

Specifications:

Operation time	About 2 min
Insert loss	≤ 0.5dB (1310nm & 1550nm)
Return loss	≥-45 dB
Using temperature	-40 ~ +75 centre degree
On-line tensile strength (20N)	IL ≤0.2dB RL ≧45 dB
Mechanical durability (500 times)	IL ≤0.2dB RL ≥45 dB

LC Adapter

Description:LC type adapters are used in high density applications and feature a quick plug in installation. Adapters are available in both simplex andduplex designs and utilize high quality zirconia and phosphorous bronze sleeves. The LC duplex adapter uses the same cutout as the copper RJ-45, resulting in less redesign work when retrofitting existing panels.

SC Adapter

Description:SC adapter has aplastic housing and either a precisionzirconia or a rugged phosphor bronzesleeve. Zirconia sleeve enables stableconnection and thus enhances performance,and is ideal for single mode applications.Phosphor bronze sleeve provides durability,and is ideal for multimode applications.Flange-mount type simplex and duplexadapters are available.

ST Adapter

Description:ST adapters connect industry standard ST connectors and are available in D-Mount and Flange-Mount versions. ST adapters are available with ceramic or metallic sleeves, feature a metal body for long life, and easily install in panel mount applications.

FC Adapter

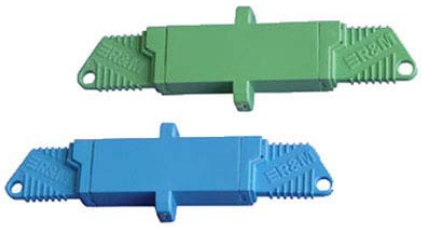
Description:FC adapter metal housing and either a precision zirconiaor a rugged phosphor bronze sleeve.Zirconia sleeve enables stable connectionand thus enhances performance, and is idealfor single mode applications. Phosphorbronze sleeve provides durability, and isideal for multimode applications. Squareflange mount and "D" hole mount styles areavailable.

MTRJ Adapter

Description:The single mode and multi mode MT-RJ products are used in two fiber optical interconnectsand are therefore well suited for high density applications.The MT-RJ Adapter comes standard in black, with additional colors available. An MT-RJ Adapter with SC style housing is also available for applications where SC footprint is required.

MU Adapter

Description:MU adapters are comprised of a polymer outer body and inner assembly fitted with a precision alignment mechanism. These adaptors are precision made and manufactured to demanding specifications. The combination of a ceramic/ bronze alignment sleevesand precision moulded polymer housing provides consistent long-term mechanical and optical performance.



E2000 Adapter

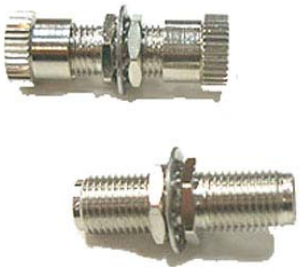
Description:The E2000 Fiber Optic Adaptor features injection-molded PBT housing,rated to the UL94V-01 Flammability Index.Spring-loaded shutters protect against dust and scratching. A high quality split ceramic sleeve ensures high performance over 1000 mating cycles.

MPO Adapter

Description:The MPO Fiber Optic Adaptor is to provide MPO Patchcord to MPO patchcord Fiber connecting.MPO Optical Adaptors are flange type adaptors with plastic housing, both single mode andmultimode ones available. MPO Adaptors are used in high-density backplane and Printed Circuit Board (PCB) applications in data and telecommunications systems. They offer up to 12 times the density ofstandard connectors. The MPO adaptersprovide significant space and cost savings.

DIN Adapter

Description:We supply DIN fiber optic adaptor which come with zirconia sleeves and threaded size. DIN Optical Adaptors are available in single mode typeand multimode types. DIN 47256 (LSA) feature a single unit body with spring-loaded free floating zirconia ferrule. This unique connector offers superior performance in a compact DIN47256 compatible design suitable forvarious applications. The DIN Adaptors are consistent performance and durability.



SMA Adapter

Description:SMA Fiber Optic Adaptors, these FSMA mating adapter can be used with all standard FSMA fiber optic connectors and are suitable for panel mounting.Standard FSMA (Ø=3.175 mm) fiber optic connectors are used for LAN, MAN, WAN, Test & Measurement, Industry, Medical and Sensors applications.

Hybrid Adapter

Description:Hybrid adapters are used to connect optical connectors of different type. are very useful in connecting patchcords with different connector. have low insertion loss and high return loss. supply a wide range of different kinds of hybrid optical fiber adapters with most popular connector type,such as LC,SC,ST,FC,E2000,MU in single mode, multi mode ,UPC & APC.

Features :

- Compliance with Bellcore 326 and TIA/EIA 604 Standard
- Hight Precision
- Easy Installation
- Low insertion loss
- Good exchangeability and repeatability
- Zirconia or phosphor-bronze sleeve

Applications:

- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation
- Fiber To the Home

Specifications:

Characteristics	Unit	Single Mode	Multimode
Insertion Loss (IL)	dB	≦0.25	
Exchangeability	dB	IL≦0.2	
Repeatability (500 remates)	dB	IL≦0.3	
Sleeve material	-	Zirconia	Phosphor Bronze
Housing material	-	Plastic	Metalic
Operating Temperature	° C	- 40 ~ +70	
Storage Temperature	° C	- 40 ~ +70	

Fiber Attenuator (F-M)

Male to female fiber optic attenuators are doped fiber attenuators, providing low wavelength sensitivity, high stability, high return loss and good reliability. This makes our attenuators well suited for EDFA, DWDM and other high-power output applications. Their performances completely meet the standard Telcordia GR-910-CORE.




Features :

- Fixed attenuation values of 1 to 30dB
- Precise attenuation value
- Excellent reflectance
- Environmentally stable
- UPC and APC available
- 1310nm and 1550nm dual wavelength
- Low PDL

Applications:

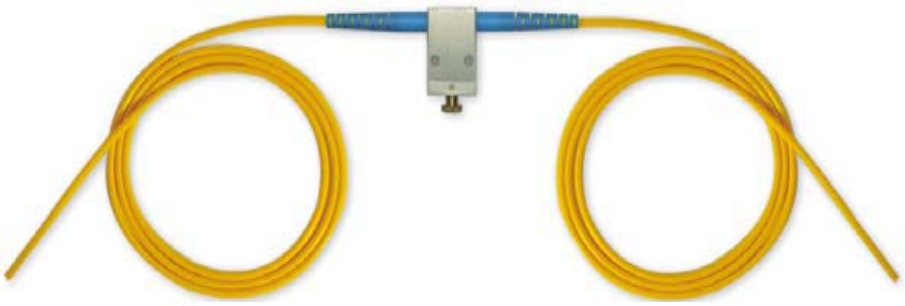
- Telecommunication Networks
- CATV
- LAN
- FTTx
- Subscriber Loop

Specifications:

Characteristics	Unit	Conditions	Values
Attenuation	dB	UPC	1 ~ 30
		APC	
Return Loss	dB	UPC	>50
		APC	>60
Operating Wavelength	nm		1310 and 1550, 1240 - 1600
Attenuation Accuracy	-	1 ~ 4dB	≦0.5dB
		5 ~ 30dB	<10%
Operating Temperature	° C	—	-40 ~ +75
Storage Temperature	° C	—	-40 ~ +85
Polarization Dependent Loss	dB	—	<0.2
Relative Humidity	%	75° C	95
Vibration	dB	10 ~ 55, 2Hrs	△IL≦0.2
Impact	dB	1.5m, 5 drops	△IL≦0.2

Fiber Attenuator (VOA)

Collimator variable optical attenuator is an useful tool for the optical components and systems test.



Features :

- Wide attenuation range
- High precision
- Low original loss
- Compact size

Applications:

- Fiber communication on system test
- Optical passive component test
- Optics lab use

Specifications:

Parameter	1310	1550	1310/1550 Dual window	850, 1310
Wavelength (nm)	1310 ± 40	1550 ± 40	1310 ± 40 & 1550 ± 40	850± 40 or 1310 ± 40
Attenuation range (dB)	0.6 ~ 60	0.6 ~ 60	0.8 ~ 60	0.8 ~ 40
Original loss (dB)	≤0.6	≤0.6	≤0.8	≤0.8
Return loss (dB)	≥ 50			≥ 30
Adjustment Precision (dB)	0.02			
Fiber type	SMF-28			50/125 or 62.5/125 multi-mode
PDL (dB)	≤0.15			
Operating temperature (℃)	0 ~ +70			
Storage temperature (℃)	- 40 ~ +85			

*Output connector can be made on customer's request.

Fiber Attenuator (In-Line)

In-line fixed attenuator utilizes fused fiber to achieve attenuation. Each cord is custom built to accommodate up to 10 meters of cable and the connectors styles of your choice.

Features :

- High stability
- High durability
- Low Polarization Dependent Loss

Applications:

- EDFA
- DWDM
- CATV
- Wide Area Networks
- High Power Applications

Specifications:

Characteristics	Unit	Conditions	Values
Attenuation	dB	UPC	1 ~ 25
Return Loss	dB	UPC	>50
Operating Wavelength	nm		1310 and 1550
Attenuation Accuracy	-	1 ~ 4dB	<0.5dB
		5 ~ 25dB	<10%
Operating Temperature	° C	—	-40 ~ +75
Storage Temperature	° C	—	-40 ~ +85
Polarization Dependent Loss	dB	—	<0.2

*Output connector can be made on customer's request.

Fiber Attenuator (F-F)

The adapter attenuator mounts in place of the standard bulkhead adapter. These products are filter-type attenuators. Bulkhead type attenuators are available for singlemode ST, SC, LC and FC connectors. They are available in fixed 3, 5, 10, 15dB ect. Select from 1310nm or 155onm options.

Features :

- Fixed attenuation values of 1 to 25dB
- Precise attenuation value
- Excellent reflectance
- Environmentally stable
- 1310nm and 1550nm dual wavelength
- Low PDL

Applications:

- Telecommunication Networks
- CATV
- LAN
- FTTx
- Subscriber Loop

Specifications:

Characteristics	Unit	Conditions	Values
Attenuation	dB	UPC	1 ~ 25
Return Loss	dB	UPC	>50
Operating Wavelength	nm		1310 and 1550
Attenuation Accuracy	-	1 ~ 4dB	<0.5dB
		5 ~ 25dB	<10%
Operating Temperature	° C	—	-40 ~ +75
Storage Temperature	° C	—	-40 ~ +85
Polarization Dependent Loss	dB	—	<0.2

FBT Coupler

Features :

- High Directivity
- Low Insertion Loss
- Low PDL
- Excellent Environmental Stability

Applications:

- Fiber In The Loop (FITL)
- Local Area Networks (LAN)
- Cable Television (CATV)
- Long Haul Telecommunications
- Fiber Optical Sensors
- Test Equipment

Specifications Based on 50/50 coupling ratio coupler:

Type	Single Window		Dual Window	
Fiber Type	SMF-28			
Operation Wavelength	1310±40nm or 1550±40nm		1310±40nm or 1550±40nm	
Grade	Super	High	Super	High
Insertion Loss(dB)(Max)	3.4	3.6	3.6	3.8
Uniformity(dB)(Max)	0.6	1.0	0.8	1.2
Polarization Dependent Loss(dB)(Max)	0.1	0.15	0.15	0.2
Thermal Stability(dB/^{0}C)(Max)	0.002			
Directivity(dB)(Min)	55			
Return Loss(dB)(Min)	55			
Operating Temperature(^{0}C)	-40 to +70			
Storage Temperature(^{0}C)	-40 to +85			

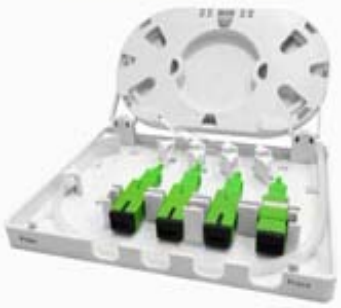
Specifications of Coupling Ratio/Insertion Conversion Chart:

Type	Single Window		Dual Window	
Grade	Super	High	Super	High
50/50	3.4	3.6	3.6	3.8
40/60	4.4/2.5	4.7/2.8	4.7/2.7	5.0/2.9
30/70	5.8/1.9	6.1/2.0	6.0/1.9	6.4/2.1
20/80	7.7/1.2	8.0/1.3	7.9/1.2	8.5/1.4
10/90	10.8/0.6	12.0/0.8	11.3/0.6	12.7/0.8
5/95	14.6/0.4	18.4/0.5	15.2/0.6	18.9/0.5

KINGTON

yes,we are kington,we never stop...

FTTH



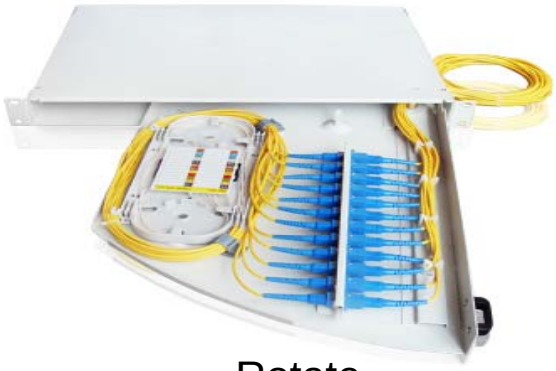
FTTH Series

ODF/Panel/Termination Box/Wall Mount Box/Closures/Cabinets/Toolkit etc...

Fiber Distribution Frame

Rack

Part No	Fiber Capacity	Dimension
FDF-12	1-12Core	480X300X1U
FDF-24	12-24Core	480X300X1U
FDF-48	24-48Core	480X300X2U



Rotate

Part No	Fiber Capacity	Dimension
KT-PNRM12	1-12Core	480X315X1U
KT-PNRM24	12-24Core	480X315X1U

Drawer

Part No	Fiber Capacity	Dimension
KT-PNDR12	1-12Core	480X300X1U
KT-PNDR24	12-24Core	480X300X1U
KT-PNDR48	24-48Core	480X300X2U

Features :

- Various removable adaptor plates
- Quick field installation
- Removable doors for easy access
- Retractable splicing tray

Applications:

- Fiber Optic Telecommunication
- CATV System
- LAN (Local Area Network)
- Optical Network Equipments
- High Speed Transmission Systems

Adapter outlet

Description :Applicable in the straight through or branch connection of indoor optical cable Available for the distribution and terminal connection of various kinds of optical fiber system Fit for wall mounted,especially for mini-network terminal distribution. available for FC,SC,ST,LC etc.

Pigtail Outlet

Description :Applicable in the straight through or branch connection of indoor optical cable Available for the distribution and terminal connection of various kinds of optical fiber system Fit for wall mounted,especially for mini-network terminal distribution.

Mini Terminal Box

Description:This box could be used for wall-mounted and rack-mounted applications;The base and cover of the box adopts “self-clip” method, which is easy andconvenient to open and close;Could be used for adaptors such as SC,FC,E2000, etc; The max capacity is 4 fibers.

Splitter Termination Box

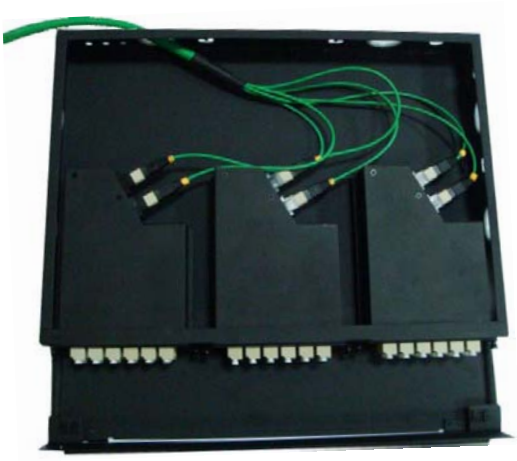
Description:Applicable in FTTH project
Suitable for corridor,basement,room and building's outer walls application With the function of mechanical splice,fusion splice, light splitting,wiring distributions

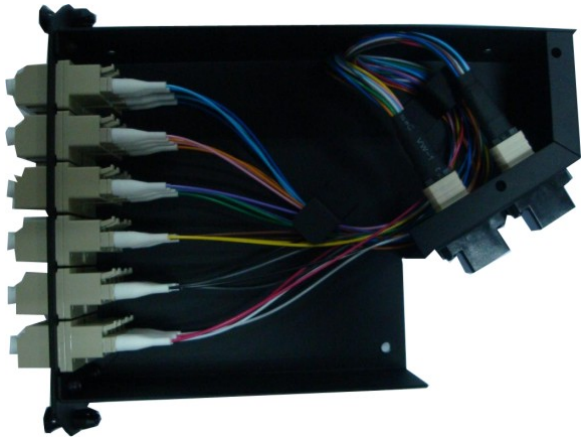
Features :

- Industry Standard User Interface, be made of high impact plastic.
- Can accommodate 1x8 & 1X16 PLC splitter.
- Anti-UV, Ultra violet resistant and rainfall resistant.
- Up to 16 FTTH drops.
- Wall and pole mountable.
- 2 inlet ports, 16 outlet ports.

Applications:

- Widely used in FTTH access network.
- Telecommunication Networks
- CATV Networks
- Data communications Networks
- Local Area Networks

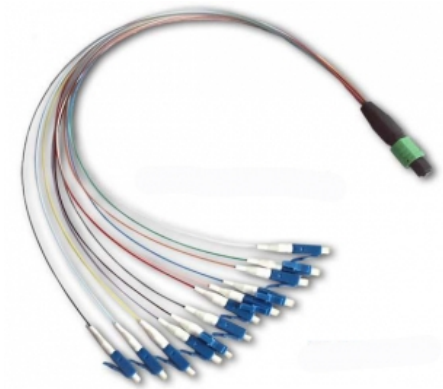




MPO panels are designed to enable a fiber net work to be installed and commissionedin the short possible time.All the components are pre-assembled and easy to be installed to the shelf.It is a perfect solution for optical fiber installations and management.

Features :

- Easy for installation and operation.
- 19" standard structure.
- Sliding tray design.
- Available for the installation of FC/SC/ST/LC adapters



MPO patch cord is a new type of optical patch cordSuitable for jump connection in high density and low loss computer room equipment Reduce room space greatly

Features :

- Available for 4,8,12 cores MPO ribbon patch cord and ribbon fan-out patch cord
- RJ45 pluggable locking structure
- Connections: MT-type

Fiber Distribution Frame

Part No	Fiber Capacity	Dimension
KT-WTB-5A-12	1-12Core	455X405X80
KT-WTB-5A-24	12-24Core	455X405X80
KT-WTB-5A-48	24-48Core	455X405X120
KT-WTB-5A-72	48-72Core	455X405X150

Part No	Fiber Capacity	Dimension
KT-WTB-5B-12	1-12Core	455X405X80
KT-WTB-5B-24	12-24Core	455X405X80
KT-WTB-5B-48	24-48Core	455X405X120
KT-WTB-5B-72	48-72Core	455X405X150

Part No	Fiber Capacity	Dimension
KT-WTB-5AD-12	1-12Core	350X350X80
KT-WTB-5AD-24	12-24Core	350X350X80

Part No	Fiber Capacity	Dimension
KT-WTB-5BD-12	1-12Core	300X350X80
KT-WTB-5BD-24	12-24Core	300X350X80

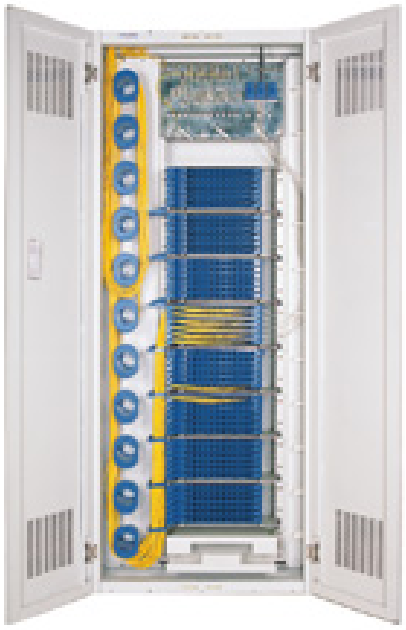
Features :

- Various removable adaptor plates
- Quick field installation
- Removable doors for easy access
- Retractable splicing tray

Applications:

- Fiber Optic Telecommunication
- CATV System
- LAN (Local Area Network)
- Optical Network Equipments
- High Speed Transmission Systems

Optical Distribution Frame



This frame is made of top quality steel and deformed aluminum alloy and treated with galvanizing, oxidation and electrostatic plastic spraying. The frame has solid structure and pleasing appearance.

Applications:

- Fiber Optic Telecommunication
- CATV System
- LAN (Local Area Network)
- Optical Network Equipments
- High Speed Transmission Systems

Features :

•Provides greater flexibility for a variety of

Dimensions (H * W * D)mm	Modules (72FO each)	Capacity (FC)	Capacity (SC and LC)
2600X840X300	12	864 FO	1729 FO
2200X840X300	8	576 FO	1152 FO
2000X840X300	7	504 FO	1008 FO

ODF Unit Box

Part No	Fiber Capacity	Dimension
KT-UN-12	1-12Core	480X235X1U
KT-UN-24	12-24Core	480X235X2U
KT-UN-48	24-48Core	480X235X3U
KT-UN-72	48-72Core	480X235X4U

Features :

•Removable panel design can meet different
•Fit for 19" rack
•Suitable for SC/LC/FC/ST,etc

Applications:

•Optical access network (OAN)
•Data processing centers
•Cable television (CATV)
•Local area network (LAN)
•FTTH

Cross Connection Cabinet

Splitting light by inserting splitter module, save construction costs.New type of lock, high securityStainless steel body material, protective performance reaches IP65New sliding type fixed structure for cable, flexible operation.Reasonable bend radius

Max capacity config
(capacity/splitting spot)

Part No	Max capacity config (capacity/splitting spot)	Dimension (MM)
KT-ODC05-A	192/128	1450X750X320
KT-ODC05-B	96/64	1250X650X320
KT-ODC05-C	384/256	1450X750X620

Applied in active link with trunk optical cables and cable distribution,accomplishing fusion,storage,distribution and dispatch for the cables.
Standard case body,made of high intensity,anti-corrosive, anti-aging special composite material
Adapting various bad weather condition,with reliable sealing, water-proof and dampproof.
Splicing&distribution integration module with adaptor assembing,fusion and connection,storage in integration, inserted assembling
Available for different type of adaptors such as FC,SC,ST
Adaptors assembing with deflexion of 30o to ensure fiber pigtail bending radius,with perfect control winding ring of the fiber in horizontal and vertical The bottom end is assembled with spare splice tray,for direct fusion and connection of trunk optical cables and distributioin cables

Part No	Max capacity (cores)	Dimension (MM)
KT-ODC04-A	288	750X1450X360
KT-ODC04-B	144	480X300X950
KT-ODC04-C	576	750X1450X620
KT-ODC04-D	48	450X320X180

Type	KT-V8-3
Product outlook size	Long:410mm Diameter:140
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-18mm
Fibers/Tray	12 Or24
Max capacity(F)	96

Type	KT-V8-2
Product outlook size	Long:410mm Diameter:140
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-22mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-V8-3
Product outlook size	Long:375mm Diameter:120
Product material quality	ABS
Product weight	Approximately2.2kg
Suitable Dia of cable	8-18mm
Fibers/Tray	12
Max capacity(F)	60

Type	KT-V8-4
Product outlook size	Long:470mm Diameter:160
Product material quality	PC(Polycarbonate)
Product weight	Approximately3kg
Suitable Dia of cable	8-18mm
Fibers/Tray	12 Or24
Max capacity(F)	144

Type	KT-V8-6
Product outlook size	Long:410mm Diameter:140
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-18mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-V8-7
Product outlook size	Long:500mm Diameter:250
Product material quality	PC(Polycarbonate)
Product weight	Approximately 4kg
Suitable Dia of cable	8-40mm
Fibers/Tray	12 Or24
Max capacity(F)	288

Type	KT-V8-8
Product outlook size	Long:410mm Diameter:140
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-18mm
Fibers/Tray	12 Or24
Max capacity(F)	96

Type	KT-V8-10
Product outlook size	Long:480mm Diameter:240
Product material quality	PC(Polycarbonate)
Product weight	Approximately 3kg
Suitable Dia of cable	8-40mm
Fibers/Tray	12 Or24
Max capacity(F)	144

Type	KT-V8-11
Product outlook size	Long:410mm Diameter:140
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-20mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-V8-A
Product outlook size	Long:480mm Diameter:240
Product material quality	PC(Polycarbonate)
Product weight	Approximately 3kg
Suitable Dia of cable	8-18mm
Fibers/Tray	12 Or24
Max capacity(F)	144

Type	KT-H9-1
Product outlook size	465*180*122
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-22mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-H9-2
Product outlook size	400*200*122
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-20mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-H9-4
Product outlook size	555*240*123
Product material quality	PC(Polycarbonate)
Product weight	Approximately 5kg
Suitable Dia of cable	8-23mm
Fibers/Tray	12 Or24O48
Max capacity(F)	288

Type	KT-H9-6
Product outlook size	400*200*122
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-22mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-H9-7
Product outlook size	450*216*160
Product material quality	PC(Polycarbonate)
Product weight	Approximately 3kg
Suitable Dia of cable	8-23mm
Fibers/Tray	12 Or24
Max capacity(F)	144

Type	KT-H9-8
Product outlook size	450*216*110
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-23mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-H9-11
Product outlook size	370*185*145
Product material quality	PC(Polycarbonate)
Product weight	Approximately2.5kg
Suitable Dia of cable	8-20mm
Fibers/Tray	24
Max capacity(F)	96

Type	KT-H9-15
Product outlook size	250*190*75
Product material quality	PC(Polycarbonate)
Product weight	Approximately1.5kg
Suitable Dia of cable	8-26mm
Fibers/Tray	12
Max capacity(F)	48

Type	KT-H9-17
Product outlook size	520*200*120
Product material quality	PC(Polycarbonate)
Product weight	Approximately3.5kg
Suitable Dia of cable	8-23mm
Fibers/Tray	12 Or24
Max capacity(F)	144

Type	KT-H9-18
Product outlook size	520*200*120
Product material quality	PC(Polycarbonate)
Product weight	Approximately3kg
Suitable Dia of cable	8-23mm
Fibers/Tray	12 Or24
Max capacity(F)	48

Type	KT-H9-A
Product outlook size	555*240*123
Product material quality	PC(Polycarbonate)
Product weight	Approximately 5kg
Suitable Dia of cable	8-23mm
Fibers/Tray	12 Or24O48
Max capacity(F)	288

KINGTON Fiber Optic System

Fiber Polish Machine

Description: Apply for all types of fiber connectors, ϕ2.5/ ϕ1.25 mm curved surface polishing& flat surface polishing.

Optical Return loss/Power Meter

Description:Insertion Loss/Return Loss Test Station is a high performance loss test station that is designed specially for Optical Passive Components production Test and Lab Test. It combines three different working modes as a return loss meter, optical power and loss meter and a stable laser source in one test station.

Fiber Optic Video Inspection

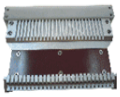
Description:The system includes a video inspection module , a black and white monitor, and a p2.5 ferrule adapter .

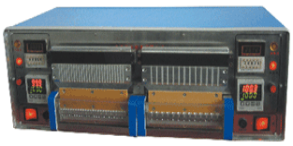
Fiber Pneumatic Crimper

Description:Special designed for crimp fiber connectors. Foot switch provide force reduction.

Optical Cutting Machine

Description:Metering,coiling and cutting the cable automatically
Flexible cable length setting and adjustable coiling diameter
Adjustable speed setting





Fiber Curing Oven

Description:Designed for curing epoxy of fiber connectors. Two set of heating plates are supplied.

Fiber Fusion Splicer

- •Color LCD monitor & 256 magnification
- •Compact & Light weight
- •Reversible monitor with control panel on each side
- •Max. wind velocity of 15m/s.
- •8 Sec. splice time, 40 Sec. tube-heat time
- •Simultaneous X and Y views
- •Large capacity internal battery
- •SYSTEM TEST ensures the best working condition
- •User programmable
- •Auto check fiber end face
- •Auto calibrate parameters
- •Store 8000 groups of splice results
- •Multiple language options

OTDR Launch Cable Box

Description:Designed to aid in the testing of fiber optic cable when using an OTDR. The OTDR Launch Fiber box is used with Optical Time Domain Reflectometers (OTDR's) to help minimize the effects of the OTDR's launch pulse on measurement uncertainty. Available in many different configurations and fiber lengths.

Optic Laser Source&Power meter

Description:Power meter is quite essential device both to construction and maintenance in optic fiber communication, CATV and FTTH.
Laser Source Equipped with high steady basic laser source, use the international latest integrated chip specialized for hand-held meters.
2 wavelengths are supported ranging from 1310nm to 1550nm.

Fiber Tools Kit

Description:Fiber optic polishing and termination tool kits contains all of the latest popular fiber optic tools and consumable material necessary for epoxy and polish connector terminations(SC/ST/FC etc..connectors).

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