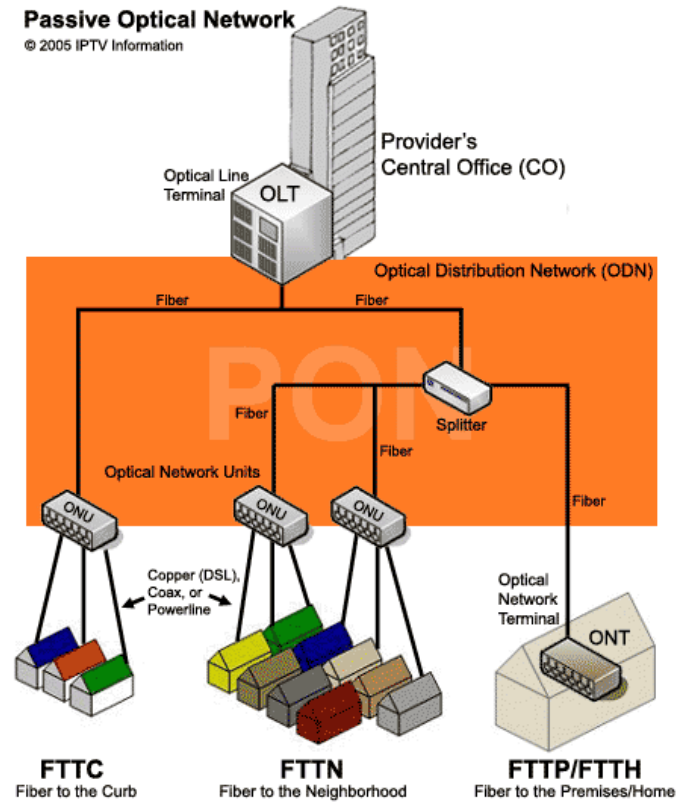# Lightking Opto-Elec. Co., Ltd

COMPANY PROFILE

◈ Establishment: in 1995 starting in Tooling maker, and selling parts to local patchcord, connector, adaptor manufacturer.

◈ Change to Lightking starting to export and selling interconnection finished parts in 2003.

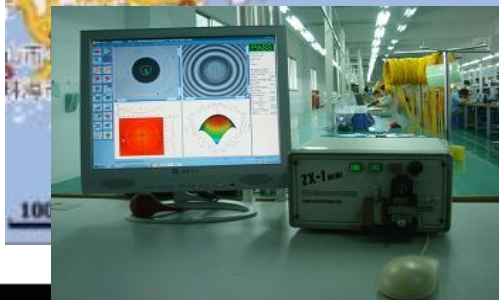◈ Over 10 years experience in Tooling and plastic injection and CNC machining

CUSTOMER REFERENCE

- ADC Krone
- Swiss Telecom
- France Telecom
- Korea Telecom
- Spain Telecom

Passive Optical Network
© 2005 IPTV Information

Provider's Central Office (CO)

Optical Line Terminal — OLT

Optical Distribution Network (ODN)

Fiber

Splitter

Optical Network Units — ONU

Copper (DSL), Coax, or Powerline

Optical Network Terminal — ONT

FTTC Fiber to the Curb

FTTN Fiber to the Neighborhood

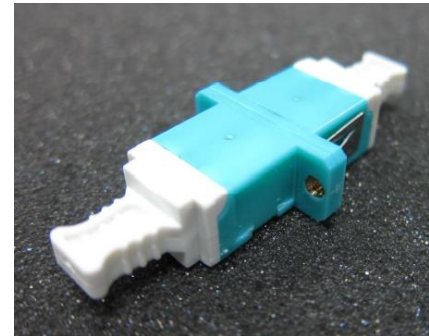**FTTP/FTTH** Fiber to the Premises/Home

FACTORY AND EQUIPMENT

FIBER OPTIC ADAPTORS

◈ **Product Features and Specifications**

◈ Types -- **SC, ST, FC, SC/APC, FC/APC, MTRJ, LC, MU, MPO, LC/SC Hybrid, Male-Female, Pin Adaptor, Shutter Adaptor**
  Mode -- Singlemode, Multimode

◈ Material -- Zirconia, Phosphor Bronze

◈ Housing -- Simplex, Duplex, Quad

◈ Housing Material – Plastic, Metal

◈ **Telcordia GR-326-Core**

◈ UL 94V-0

◈ Low Insertion Loss

◈ High Durability

FIBER OPTIC CONNECTORS

◈ **Product Features and Specifications**
◈ Types -- **SC, ST, FC, SC/APC, FC/APC, MTRJ, LC, E2000, MU, MPO, LOOPBACKS**
◈ Mode -- Single-mode, Multimode
◈ Housing – Simplex, Duplex
◈ Cord -- 0.9mm , 2.0mm , 3.0mm

◈ **Telcordia GR-326-Core**
◈ UL 94V-0
◈ Low Insertion Loss
◈ Low Return Loss
◈ High Durability

FIBER OPTIC QUICK TERMINATION CONNECTORS

Product Features and Specifications

- Types – **SC/PC , SC/APC**
- Mode -- Single-mode
- Housing – Simplex
- Cord -- 2.0 x 3.0mm
- Low Insertion Loss
- Low Return Loss
- High Durability

FIBER OPTIC PATCHCORDS/PIGTAILS

- ◆ **Product Features and Specifications**
- ◆ Types -- **SC , ST , FC , SC/APC , FC/APC , MTRJ , LC , E2000**
- ◆ Mode -- Single-mode , Multimode
- ◆ Fiber --   SMF-28 , OM1, OM2 , OM3
- ◆ Cable -- **Indoor(PVC , LSZH)**
  Outdoor Armored(LSZH , PU)
- ◆ Cord -- 0.9mm , 2.0mm , 3.0mm , Minizip 1.8mm
- ◆ **Telcordia GR-326-Core**
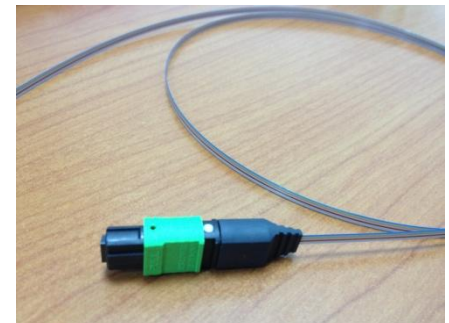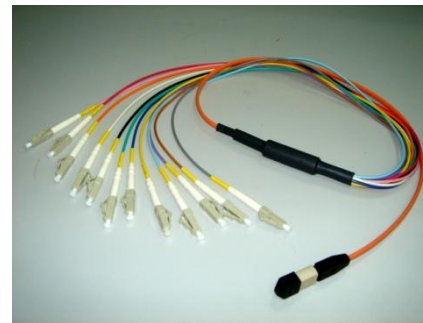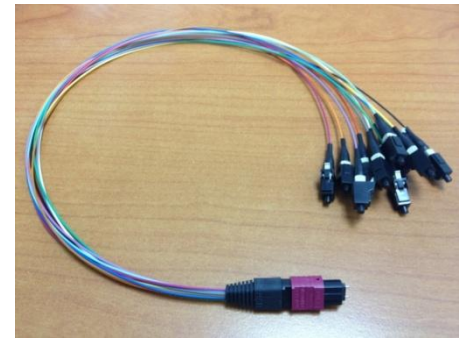- ◆ 100% inspected
- ◆ Low Insertion Loss
- ◆ Low Return Loss

FIBER OPTIC MTP PATCHCORDS/PIGTAILS

◈ **Product Features and Specifications**
◈ MTP Brand – **USCONEC Elite**
◈ Mode -- Single-mode(APC) , Multimode
◈ Fiber -- 4F,8F,12F,24F
◈ Cable -- PVC , LSZH
  Cord -- Trunk cables, Harness cables,
       Y cables and 0.9mm Fanouts

◈ **Comply with:**
  IEC PAS 61755-3-31 ,IEC61754-7 and
  TIA-568-C
◈ Low Insertion/Return Loss
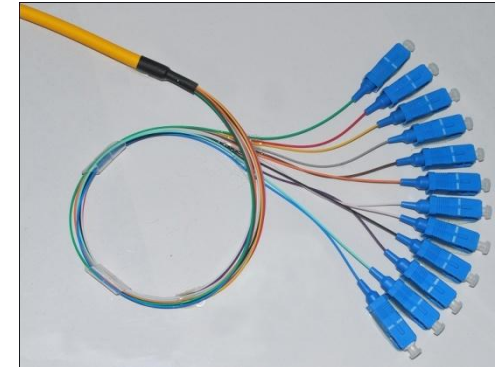◈ Great End face geometry
◈ 100% inspected

FIBER OPTIC FAN-OUT PATCHCORDS/PIGTAILS

Product Features and Specifications

◈ Types -- **SC , ST , FC , SC/APC , FC/APC , LC**

◈ Mode -- Single-mode , Multimode

◈ Fiber -- SMF-28 , OM1, OM2 , OM3

◈ Fiber Types – 4 , 6 , 8 , 12 , 16 ,24 ,48 Fibers

◈ Cable -- PVC , LSZH
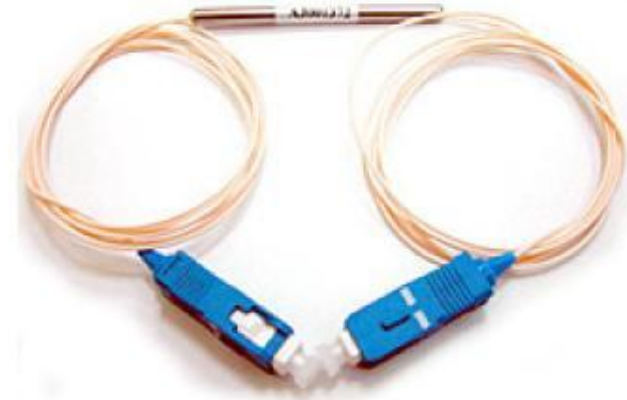
◈ Cord -- 0.9mm , 2.0mm , 3.0mm

◈ **Telcordia GR-326-Core**

◈ 100% inspected

◈ Low Insertion Loss

◈ Low Return Loss

FIBER OPTIC ATTENUATOR

◈ **Product Features and Specifications**
◈ Types – **Plug In and In-Line Attenuator**
◈ **SC , ST , FC , SC/APC , FC/APC, LC , LC/APC**
◈ Wavelength – 850nm, 1310nm, 1550nm
◈ Mode -- Single-mode, Multimode
◈ Attenuation range – 1 ~ 30dB

◈ **Telcordia GR-910-Core**
◈ 100% inspected
◈ Low Insertion Loss
◈ Low Return Loss

FIBER OPTIC TERMINATION BOX

◆ **Product Features and Specifications**
◆ Types – **Rack Mount, Wall Mount**
◆ Ports -- 12, 16, 24, 36, 48, 72, 96 ports
◆ Material -- Aluminum, SUS
◆ Adaptor -- SC, ST, FC, LC

**12 Ports
Dimension:315x90x310mm**

Compact design wall mount.
Provide 15pieces Protection Sleeve for the splices of 12port(or 30pieces for the splices of 24port).

One cabinet design.
Stackable modular fusion splicing tray,12splicings per tray, 96splicings per box.

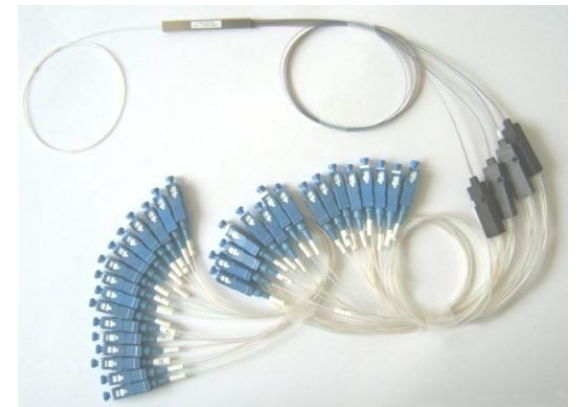
**96 Ports
Dimension:305x430x375mm**

FIBER OPTIC SPLITTERS/WDMS

Product Features and specifications

◆ Ports -- 1x2 to 1x32 ports

◆ Termination -- **SC, ST, FC, SC/APC, FC/APC, MTRJ, LC, E2000**

◆ Mode -- Single-mode, Multimode

● **PLC -** Single Mode 1 × N & 2xN Splitters divide uniformly optical signals from input ports to multiple outputs. Splitters can also be operated in the reverse direction to combine multiple wavelengths into one or two fibers. The device has low Insertion Loss, low Polarization Dependent Loss and high port uniformity.

◆ 100% inspected

FIBER OPTIC TOOL KITS

◆ **Product – Kit Content**

Carbide scribe
Syringe
Stripper
A/B fast epoxy glue
Cleanser
ST polish disc
SC polish disc
Wipe paper
Kevlar cutter
Glasses working pad
Crimp tool
(6um-brown color) diamond polish film
(1um-purple color) diamond polish film
(0.05um-white color) Aluminum oxide polish film
Rubber working pad
Epoxy mixer
Epoxy mixer pad