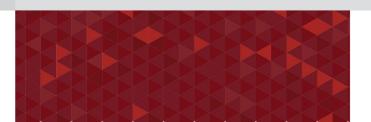


W W W . K E T R O W A . C O M

ABOUT KETROWA

Providing materials and equipment for construction projects is always one of the most important concerns of builders and project managers. The importance of this issue stems from its direct impact on the project schedule, construction cost, and final building value. With the aim of facilitating the process of providing construction goods and taking into account its social responsibility, Ketrowa team has created a comprehensive and online system. In this system, builders will be able to prepare the schedule for the supply of materials and equipment for their construction projects and order the supply of goods based on the plan. These orders are made by comparing various products available in the system. Mass builders are the most important target customers of Ketrowa, and Ketrowa tries to supply and deliver goods on time to the consumer by logical planning for manufacturers and by providing cash and credit purchase model. Also, due to the reception and request for the supply of construction products for foreign markets, the supply of construction products for export markets is another main goal of Ketrowa. Ketrowa plans to transform the traditional and opaque market into a modern, high-speed and accurate market where buyers can get the quality goods they want at the most appropriate price.





ELECTRICAL FACILITIES

SANITARY

4

3 2

Products are produced and supplied in five branches:

Structure, Electrical Facilities, Mechanical, Heating & Cooling Facilities, Sanitary, Joinery & Finishing., combining art and industry.

STRUCTURE

JOINERY & FINISHING

5





Unitube Fibre Optic Cables

- Compact Universal cables used for direct burial:
- Accurate fibre excess length
- Specially designed compact structure and PE sheath
- Crush resistant and flexible
- PSP enhances the cable's crush-resistance, impact-resistance and moisture proofing
- Two parallel steel wires ensure tensile strength
- Small diameter, lightweight and hassle-free installation
- Long delivery length
- OM2 50/125 compliant with ITU G.651, IEC 60793-2-10 Type A1a.1 and ISO/IEC 11801:2002 Amd.2 OM2
- OS1 9/125 compliant with ITU G.652.D, IEC 60793-2-50 Type B1.3, ISO/IEC 11801:2011 Ed2.2
- Cable mechanical characteristics tested according to IEC 60794-1

OS1 9/125

Length	Туре
2000m	4 fibre, OS1 9/125, Unitube Light Armoured
2000m	6 fibre, OS1 9/125, Unitube Light Armoured
2000m	8 fibre, OS1 9/125, Unitube Light Armoured
2000m	12 fibre, OS1 9/125, Unitube Light Armoured
2000m	24 fibre, OS1 9/125, Unitube Light Armoured

OM2 50/125

Length	Туре
2000m	4 fibre, OM2 50/125, Stranded Loose Tube Armoured
2000m	6 fibre, OM2 50/125, Stranded Loose Tube Armoured
2000m	12 fibre, OM2 50/125, Stranded Loose Tube Armoured
2000m	24 fibre, OM2 50/125, Stranded Loose Tube Armoured

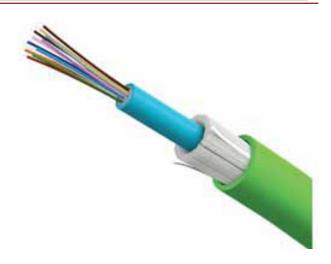




FL-C Loose Tube Fibre Optic Cables

- Compact and universal cables suitable for indoor and specifc outdoor installations:
- Low Smoke Zero Halogen (LSZH) green coloured external sheath
- UV resistant
- dielectric
- high tensile strength
- rodent retardant
- longitudinally watertight
- Maximum pulling force: 1500 Newton (1800 Newton for 24FO)
- Rodent protection:
- Minimum bending radius: OD x 10 (ex: 51mm for 5,1mm OD)
- Ambiant air temperature (minimum & maximum):
- for installation: -5° ... +50°C
- for operation: -20°... +70°
- for storage: -40° ... +70°
- Tight buffered gel-free cable construction with 900 µm coating.
- Flame retardant according to IEC 60 332-1, EN 50 265 2.1, NFC 32 070 2.1 (Category C2). Fire retardant according to IEC 60 332-3 C, EN 50 266, NFC 32 070 2.2 (Category C1) Performances
- OM2 50/125 compliant with ITU G.651, IEC 60793-2-10 Type A1a.1 and ISO/IEC 11801:2011 Ed2.2 OM2.
- OM3 50/125 compliant with ITU G.651, IEC 60793-2-10 Type A1a.2 and ISO/IEC 11801:2011 Ed2.2 OM3.
- OM4 50/125 compliant with IEC 60793-2-10 Type A1a.3, ISO/IEC 11801:2011 Ed2.2 OM4.
- OS1/OS2 9/125 compliant with ITU G.652.D, IEC 60793-2-50 Type B1.3, ISO/IEC 11801:2011 Ed2.2 OS2.
- Cable mechanical characteristics tested according to IEC 60794-1 Use
- High data rate fibre optic backbones for building and campus
- Horizontal cable (FTTD Fibre to the desk) with the 2 fibres
- Suitable for direct termination: installation with connectors (prefbred, cold-cured and/or heat-cured types).

OM2 50/125 μm			OM3 50/125 μm		
Diameter	Length	Туре	Diameter	Length	Type
6.2mm	2100m	8 fibres, OM2 50/125, Loose tube, Up to 10Gbps ethernet supported	6.2mm	525m	OM3 50/125, Loose tube, 12 fibres
OS1/OS2 9/125 μm		6.2mm	2100m	Up to 40Gbps ethernet supported	
Diameter	Length	Туре			
6.2mm	525m	12 fibres, OS1/0S2 9/125, Loose tube,			
6.2mm	2100m	Up to 100Gbps ethernet supported			KETROWA.COM 5



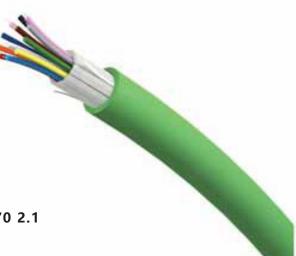
FL-C Tight Buffered Fibre Optic Cables

- Compact and universal cables suitable for indoor and specifc outdoor installations:
- Low Smoke Zero Halogen (LSZH) green coloured external sheath
- UV resistant
- dielectric
- high tensile strength
- rodent retardant
- longitudinally watertight
- Maximum pulling force: 1500 Newton (1800 Newton for 24FO)
- Rodent protection:
- Minimum bending radius: OD x 10 (ex: 51mm for 5,1mm OD)
- Ambiant air temperature (minimum & maximum):
- for installation: -5° ... +50°C
- for operation: -20°... +70°
- for storage: -40° ... +70°
- Tight buffered gel-free cable construction with 900 µm coating.
- Flame retardant according to IEC 60 332-1, EN 50 265 2.1, NFC 32 070 2.1

(Category C2). Fire retardant according to IEC 60 332-3 C, EN 50 266, NFC 32 070 2.2 (Category C1)

Performances

- OM2 50/125 compliant with ITU G.651, IEC 60793-2-10 Type A1a.1 and ISO/IEC 11801:2011 Ed2.2 OM2.
- OM3 50/125 compliant with ITU G.651, IEC 60793-2-10 Type A1a.2 and ISO/IEC 11801:2011 Ed2.2 OM3.
- OM4 50/125 compliant with IEC 60793-2-10 Type A1a.3, ISO/IEC 11801:2011 Ed2.2 OM4.
- OS1/OS2 9/125 compliant with ITU G.652.D, IEC 60793-2-50 Type B1.3, ISO/IEC 11801:2011 Ed2.2 OS2.
- Cable mechanical characteristics tested according to IEC 60794-1 Use
- High data rate fibre optic backbones for building and campus
- Horizontal cable (FTTD Fibre to the desk) with the 2 fibres
- Suitable for direct termination: installation with connectors (prefbred, cold-cured and/or heat-cured types).



OM2 50/125 μm Diameter Length Type 525m 12 fibres, OM2 50/125, Tight buffered, Up to 10Gbps ethernet supported



3 50/125 μm		
Diameter	Length	Туре
6.7mm	525m	12 fibres, OM3 50/125, Tight buffered,
	2100m	Up to 40Gbps ethernet supported



Diameter	Length	Туре
	525m	12 fibres, OS1/OS2 9/125, Tight buffered,
.7mm	2100m	Up to 100Gbps ethernet supported on long distance



Fibre Optic Patch Cord OM2 50/125

Length	Туре	
1m		
2m	Optic Patch Cord SC/SC	
3 m		
5 m		Constant
10m		
1m		
2m	Optic Patch Cord LC/LC	
3 m		
5 m		
10m		
1 m		
2 m		
3 m	Optic Patch Cord LC/SC	
5 m		
10m		

Fibre Optic Patch Cord OM3 50/125

Length	Туре		
1 m			
2m	Optic Patch Cord SC/SC		
3m			
5 m			
10m			
1m			
2m			
3 m	Optic Patch Cord LC/LC		
5 m	optic rateri cora Ec, Ec		
10m			
1 m			
2m			
3 m	Optic Patch Cord LC/SC		
5 m	optic rateri cora Ec/3c		
10m			







Fibre Optic Patch Cord OS1 9/125

Length	Type	
1 m 2 m 3 m 5 m 10 m	Optic Patch Cord SC/SC	
1 m 2 m 3 m 5 m 10 m	Optic Patch Cord LC/LC	
1m 2m 3m 5m 10m	Optic Patch Cord LC/SC	







Pigtail Multimode and Singlemode (OM2 - OM3 - OS1)

	Length	Type
		Pigtail OS1 9/125 LC
Pigtail Multimode and Singlemode OS1	2m	Pigtail OS1 9/125 SC
	2m	Pigtail OM2 50/125 LC
Pigtail Multimode and Singlemode OM2		Pigtail OM2 50/125 SC
Pigtail Multimode and Singlemode OM3	0.7m	Pigtail OM3 50/125 LC
Pigtan Multimode and Singlemode OMS	0.7111	Pigtail OM3 50/125 SC



Coverplates Without Adapters

Coverplate for 3 SC duplex adapters

Coverplate for 6 LC duplex adapters compatible with LC duplex adapter / rect.

Blank Plate

Blank Plate for Fiber Optic Panel



Evolution Universal Sliding Fibre Optic Panel 1U

Technical Specifications: Universal sliding 19" fibre optic panel with 4 positions, equipped with 3 blank plates. The 1st position is empty and is to be fitted with suitable coverplate. | 1 Quick Fix function on both sides to allow a simple, quick fxing position and sliding feature | Removable transparent cover mounted | Fibre patchcord guiding structure at the front, protected by cover equipped with label holders. Evolution panel for direct terminations | Equipped with 2 coiling wheels and 2 PG9 (Ø 7 mm max.) cable glands | Evolution Fibre optic panel 1U with 3 blank plates, for splices



Pigtail Multimode and Singlemode (Duplex Adapter)

Туре	SC Duplex Adapter MM	LC Duplex Adapter rect MM
Туре	SC Duplex Adapter SM	LC Duplex Adapter rect SM



Splitter Box/PLC 16*1 Fiber optic splitter

Specifications

Splitter Length: 1.5 meters
Number of Final Splitters: 1:16
Cable Diameter: 900 microns
Type of Splitter Cover: Steel
Splitter Technology: PLC
Wavelength: 1260-1620nm
Level of Uniformity: 1.5
Amount of Return: 50

NFC 32 070 2.2 (Category C1)

Optical fiber splitters or 1:16 optical fiber splitters are used in FTTH networks, that is, exactly where the Internet is delivered to customers using optical fiber. It is routed from the server room to the client device without changing the transmission environment. The PCL splitter is available with 1:16 symmetrical power distribution with both input and output interfaces. The compact steel box housing allows for easy installation in fiber optic switches and connectors. The 1:16 fiber optic splitter is built on a slim 0.9mm cable, making it easy to install in a variety of organizers. Splitters play an important role in telecommunication systems by sharing signals sent in PON and GPON systems for subscribers. Splitters are structurally divided into two types: 1*N and 2*N. 1*N splitter is used in star topology and 2*N splitter is used in ring topology. Based on the manufacturing technology, the splitters are divided into two types: PLC SPLITTER and FBT SPLITTER. PLC splitters are produced in the following forms for better and easier performance:

Splitter box Pen splitter 19-inch rock mount splitters Wood splitters



Splitter Box/PLC Mini Type- Optical Fiber Splitter 1x8 pen

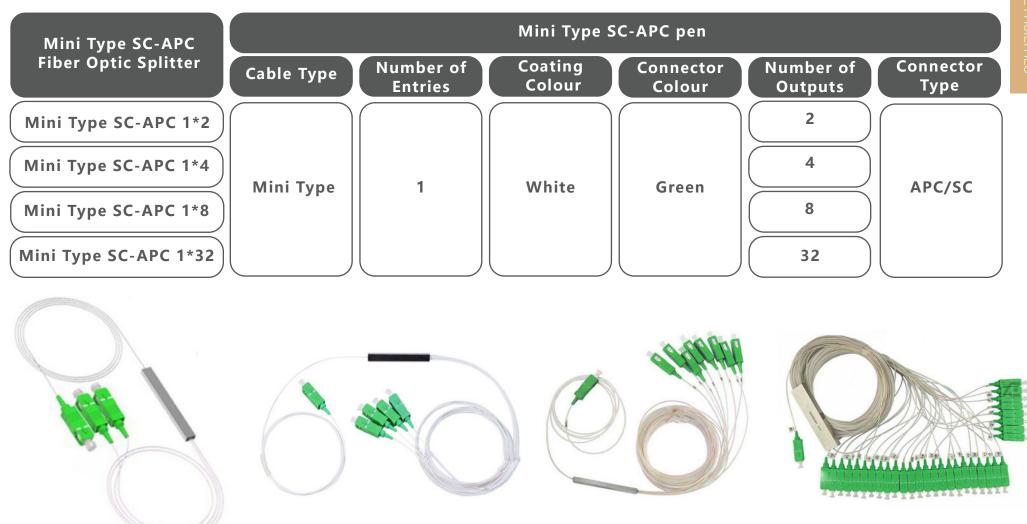
Specifications

Low drop rate
High efficiency
Uniform distribution of power
Compact design
Wide operating wavelength
Wide operating temperature
Excellent mechanical stability
Qualified under Telcordia and GR-1209

SC/APC 1:8 fiber optic splitter has one uplink optical interface and several downlink optical interfaces. Optical signals transmitted from the uplink optical interface to all downlink optical links. Only when the optical signals are transmitted from the uplink optical interface to the downlink optical interface, the optical signal power is reduced / when the optical signals are switched from the downlink optical interface to the uplink optical interface, the optical power is reduced, this is true. By using this splitter, we can copy an optical data for monitoring after optical fiber transmission. Telecom fiber optic splitter What is a fiber optic splitter? Splitters play an important role in telecommunication systems by sharing signals sent in PON and GPON systems for subscribers. Splitters are structurally divided into two types: 1*N and 2*N. 1*N splitter is used in star topology and 2*N splitter is used in ring topology. Based on the manufacturing technology, the splitters are divided into two types: PLC SPLITTER and FBT SPLITTER. PLC splitters are produced in the following forms for better and easier performance:

Splitter box Pen splitter 19-inch rock mount splitters Wood splitters





Splitter APC Fiber Optic Splitter

Splitter UPC Fiber Optic Splitter

FAT 48 Core FTTH
Fiber Optic Distribution Wall Box

2-Core Fiber Optic ATB Box or FTTH Fiber Optic Network Wall Terminal

Specifications

Colour: White

Body Material: Plastic

Number of Ports: 2 SC Simplex

Type of Use: Surface

ATB-2 FTTH network wall terminal box ATB connects the fiber optic cable that runs outside your home to your modem. The ATB is a small white plastic box (180mm x 50mm x 120mm) that fits on your interi-or wall. It is very important to know where to install the ATB before starting the fiber optic installation project. Because this can affect your bandwidth experience. Your modem connects to your ATB so it must be installed in a very convenient place. Where you have the most internet. ATB or OTO is a box that is installed at the user's location and terminates the Passive Optical Network (PON).



Multimode Fiber Optic Patch Cord LC-LC OM4 (3m)

Specifications

Connector Type: LC/LC

Fiber Type: Multimode (OM4)

Cable Length: 3 metres



12-color single mode fiber optic pigtail SC/UPC/LSZH (1.5m)

Specifications

Standard: G65782 Connector Type: SC Fiber Type: single mode Cable Length: 1.5 metres

Color of Cable Cover: 12 colors

Coating Material: LSZH



Fiber Optic Splitter Box

FTTH ODF 8 Core

Specifications

Body Colour: White Weight (gr): 0.4 grams

Dimensions (mm): 220 x 215 x 50 mm

Body Material: ABS Plastic

Product Type: FIBER ACCESS TERMINAL BOX Usage: Can be used in OUTDOOR Environments

Optical Fiber Splitter: None Fiber Optic Adapter: None Installable Adapter Type: SC

Number of Adapters that Can be Installed: 8





IN KETROWA BUSINESS MODEL, MASS BUILDERS ARE THE MOST IMPORTANT TARGET CUSTOMERS.

