

HO/EPA/780506/21
October 28, 2021

M/s. Optronics Trading LLC
P.O Box. 181775
Dubai, UAE

APPROVAL OF MATERIAL FOR FTTH SYSTEM: OPTRONICS

Dear Mr. Suregh Sudhaman

Reference is made to your application for Product Approval. We are pleased to inform that the following items are approved for deployment in FTTH Network subject to prevailing Etisalat and TDRG Guidelines. This is issued based on the technical specifications stated by the manufacturer, inspection of sample and test certificates provided. Etisalat do not undertake any responsibility towards any damage or hazard caused due to the deployment of these products

Sl. No	EPA No	Product Description	Supplier	Manufacturer
1	780506-1	FO Patch cord SC/APC	Optronics	Optronics Plus
2	780506-2	FO Pigtail SC/APC	Optronics	Optronics Plus
3	780506-3	FO Adapter SC/APC	Optronics	Optronics Plus
4	780506-4	FO Patch Panel SC/APC	Optronics	Optronics Plus
5	780506-5	FO Drop Cable 4 Fibre	Optronics	Optronics Plus
6	780506-6	ONT Enclosure	Optronics	Optronics Plus
7	780506-7	Wall Mount Cabinet	Optronics	Optronics Plus
8	780506-8	Free Standing Cabinet	Optronics	Optronics Plus

Kindly note that this approval is valid for a period of 12 months from today. Any misuse of this approval for promoting, supplying or installing counterfeit or inferior product will lead to forfeiture of this approval, legal action or both.

Stamped specification sheets are attached for your reference and further correspondence's.

Best Regards



Saeed Ali Alsharhan
Director - DST/D&SHS
Etisalat Head Office



ETISALAT PRODUCT APPROVAL	
EPA No:	780506-5
Approval valid	27 Oct 2022
Authorized signatory	<i>[Signature]</i>
Designation: D/DST/D6SHS	Date: 28-10-2021

FTTH Flat Drop Cable

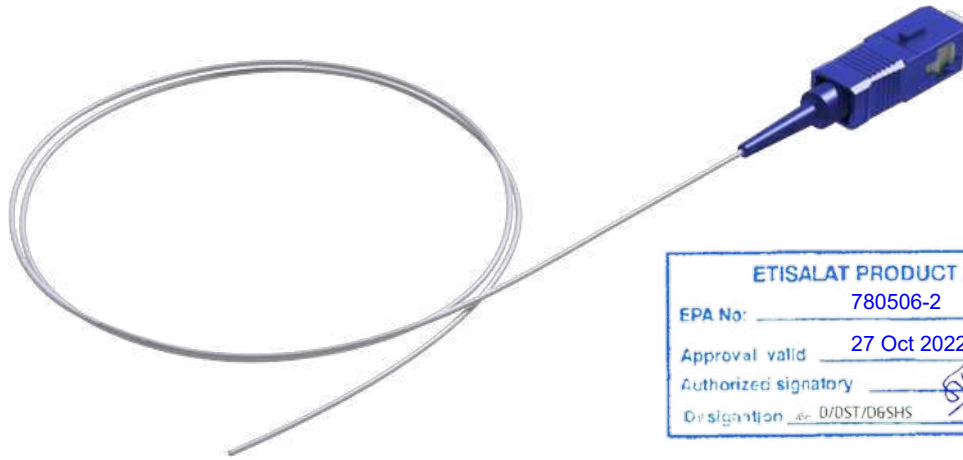
All dielectric flat duplex drop cable for FTTH (or FTTX in general) applications. It comes with 1 to 4 250µm individually coloured bend insensitive singlemode fibres and it contains 2 FRP strength members. The outer Low Smoke Zero Halogen (LSZH) jacket comes in black or white colour with a nominal dimension 2x3mm.

Features

- Single mode optical fibre meeting ITU-T G.652D, G.657A1 or G.657A2
- Choice of fibre types
- White LSZH jacket for internal use
- Black LSZH jacket for short distance external use
- Individually coloured optical fibres
- Notched 2 x 3 mm construction for easy stripping

Applications

- Internal FTTH/FTTx applications
- Horizontal and riser applications
- Clipping to surfaces including skirting boards
- External short distance applications



Fibre Optic Connector Pigtails

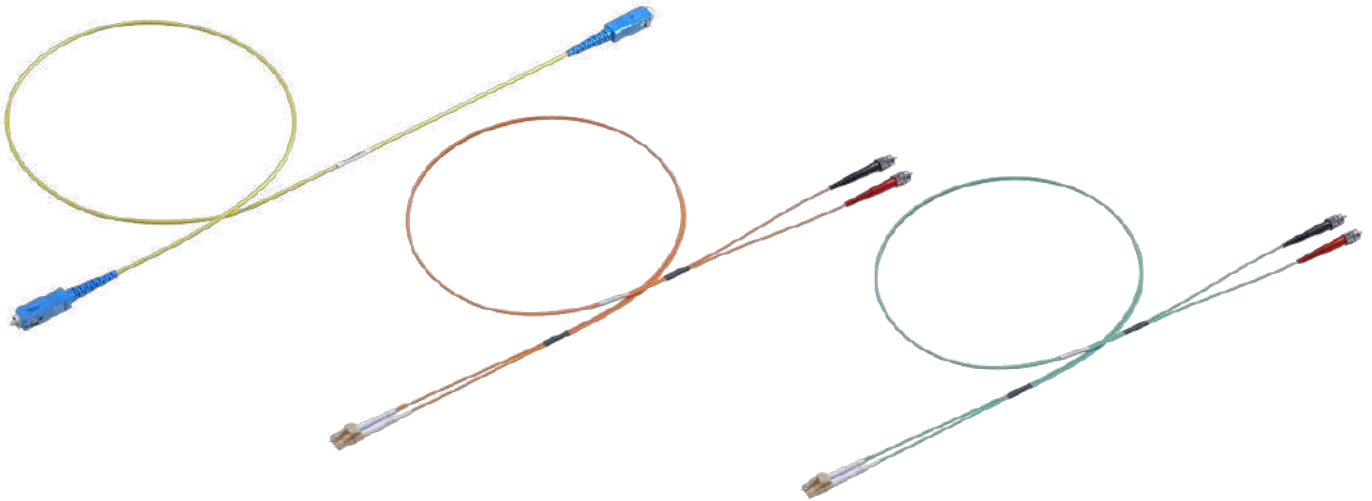
Singlemode and multimode pigtails are used for the termination of optical cables via fusion or mechanical splicing. They consist of a high quality 900µm LSZH cable terminated with an optimized connector for low insertion loss and low back reflection. They fully conform to IEC, TIA/EIA and Telcordia standards.

Features

- Available with SC, LC, ST or FC UPC and APC connectors
- Available with 900µm tight buffer or easy strip white coloured cable
- Low smoke zero halogen (LSZH) buffer
- Available with singlemode G.652D, G.655 and G.657A1/A2, OM1, OM2, OM3, OM4 and OM5 fibre
- REACH, RoHS and SvHC compliant
- Available in standard 12 colors as per IEC 60304 and in standard and blister packing

Applications

- Termination of optical networks via fusion or mechanical splicing
- FTTx
- Data centres, Premises and Telecommunication applications
- Patch panels, wall boxes, ODFs and splice cassettes



Fibre Optic Patch Cords


High performance OS2 Singlemode and Multimode (OM1, OM2, OM3, OM4 & OM5) patch cords, manufactured for internal applications using high quality Low Smoke Zero Halogen (LSZH) cable and low loss optimized connectors. They fully conform to ISO/IEC, TIA/EIA and Telcordia standards.

Features

- SC, LC, ST, FC and MTRJ UPC and APC connectors
- Available in simplex or duplex
- 900µm / 600 µm tight buffer
- Duplex LC and SC assemblies available with clips
- Singlemode: ITU-T G.652D, TIA/EIA 492 CAAB and ITU-T G.657A1 or A2 compliant
- Multimode: TU-T G.651.1, IEC60793-2-10 compliant
- Low smoke zero halogen (LSZH) cable
- Singlemode available in yellow colour; Multimode available in OM1/OM2: orange, OM3: aqua or purple, OM4: aqua or erika violet; OM5: lime green
- REACH, RoHS and SvHC compliant

Applications

- Telecommunication networks
- FTTx
- WDM/DWDM
- Data centres
- 40/100 Gigabit Ethernet applications
- Gigabit/10G/40G/100G applications
- Legacy networks (Ethernet, Fast Ethernet, FDDI)
- Backbone, horizontal and riser applications
- Supports video, data and voice service

ETISALAT PRODUCT APPROVAL	
EPA No:	780506-1 (SC/APC)
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Authorized signatory	
Designation	D/DST/D6SHS
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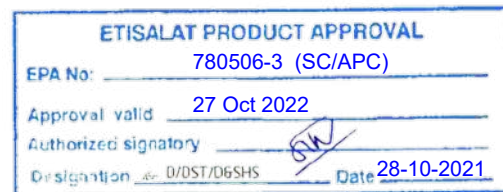


Fibre Optic Adaptors

High quality adaptors designed and manufactured to offer low insertion loss and high re-mateability. They have high precision alignment sleeves for improved reliability.

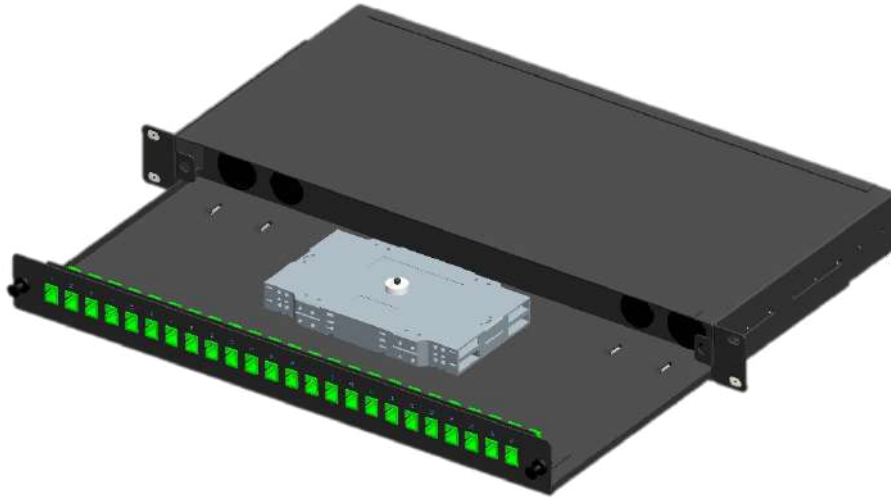
Features

- Low insertion loss
- High re-mateability
- High precision alignment sleeve
- LC, SC, FC, ST, E2000 and MTRJ type
- Available in simplex, duplex and quad versions
- LC adaptors: These adaptors come with ceramic sleeves for both single mode and multimode. They are available in different colours, with options for flange or flangeless body and metal or inbuilt clips. IEC 61754-20 compliant
- SC adaptors: These adaptors come with ceramic sleeves for single blue, green, aqua and Erica violet and phosphor bronze sleeve for beige. They are available in different colours with options for flange or flangeless body, metal clips or inbuilt clips. Each adaptor comes with a protective cap. IEC 61754-4 compliant
- FC adaptors: These adaptors come with ceramic sleeves for single mode and phosphor bronze sleeve for multimode. IEC 61754-13 and TIA 604-4-A and
- ST adaptors: These adaptors come with a ceramic sleeve for the singlemode and phosphor bronze sleeve for multimode. Their housing is available in double D footprint type. IEC 61754-2 compliant
- RoHS2, REACH SvHC compliant



Applications

- Datacenters
- Telecommunications networks
- FTTx applications
- CATV, LAN, MAN and WAN application
- Data processing networks
- Cable television
- Premises distribution



PS 1U Sliding Patch Panel 24 Position SC/LC/E2000/ST/FC

A robust 1U 19" rack mountable PS1 sliding patch panel, designed to accept up to 48 connections using LC duplex adaptors. PS2 sliding patch panel are also ready to accept up to 24 ST or FC adaptors. PS3 sliding patch panel designed to accept up to 48 spliced fibres using SC duplex adaptors. In addition, it can be used with LC Quad adaptors combined with pre-terminated assemblies.

The panel can also be pre-loaded complete with the required adaptor and simple splice management kit, or preloaded with pigtails to meet your project needs. It is designed with a sliding mechanism for ease access during re-work or installation.

Features

- 1U height
- 19" rack mountable
- PS1, PS2 and PS3 type
- Up to 24 adaptors
- PS1: Offered with SC simplex, LC duplex or E2000 adaptors. Up to 48 fibres (using LC duplex)
- PS2: Accepts up to 24 ST or FC adaptors
- PS3: Offered with SC Duplex. Can be offered with LC Quad for use with pre-terminated cables. Up to 48 spliced fibres with SC Duplex or 96 pre-terminated fibres with LC Quad
- Steel construction
- Individually labelled ports
- Accepts loose tube, distribution and pre-terminated cables
- RoHS, REACH and SvHC compliant



Applications

- Data centres
- Telecommunication networks
- Premise installations
- Indoor applications
- Ethernet, Fibre Channel, ATM, LAN, MAN and WAN



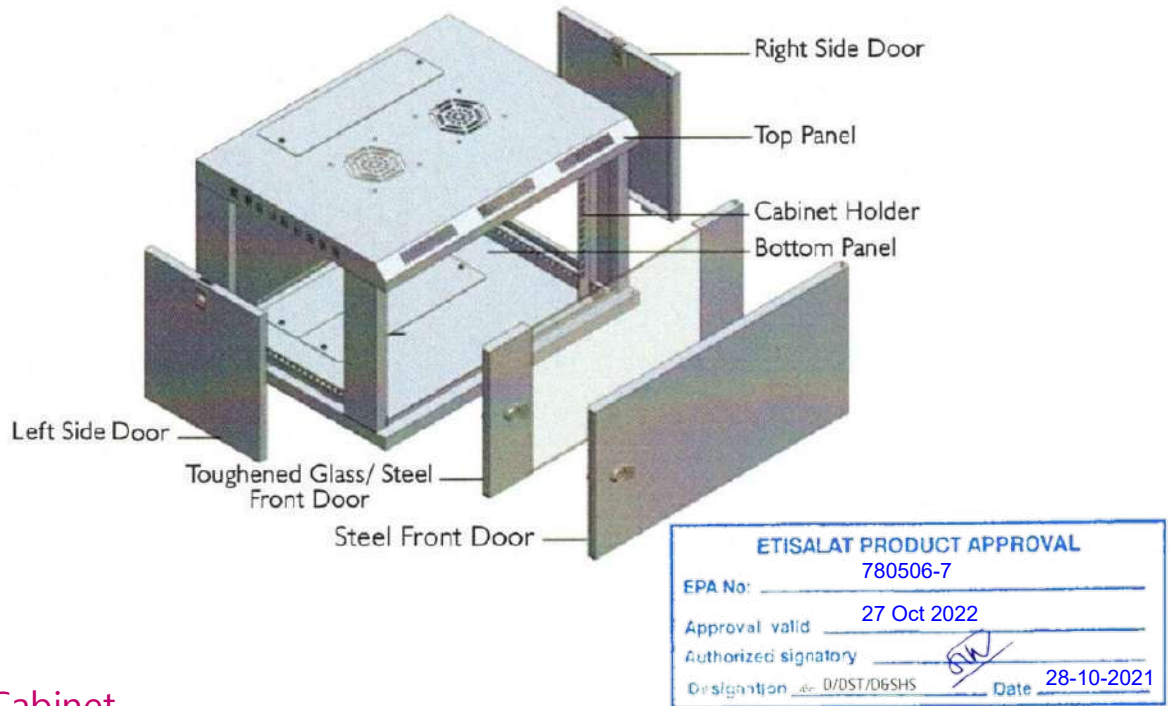
FTTH/ONU Cabinet

Optronics Electric ONU cabinets are designed as per the specifications of the Telecom Operator (Etisalat / DU) and also customised as per the requirement of building owner by considering the overall aesthetics looks of the apartment / commercial outlet and maintaining the specifications of Telecom operator.

Features

- Compatible with standard 19" mounting - Cable entry from top and bottom.
- Adjustable 19" mounting rails in the front.
- Top and bottom cable entry facility with knockouts for easy cable installation
- Lockable front glass door with ventilated metal frame
- Durable, Textured Powder Coated
- Protection Rating IP 20
- Manufactured from cold rolled carbon steel sheet coated with polyester power structure paint
- Installation and maintenance is easily done with its study and versatile design
- Available in RAL 7035, 9010, 9002, 9005.

Ordering Information



Wall Mount Cabinet

Optronics wall mount cabinets combine variety with flexibility and cost efficiency and are specially designed and manufactured to provide reliable solutions for smaller networks and structured cabling components. These wall mount enclosures allow you to manage and secure critical network wiring, hubs, routers, patch panels, and audio/video equipment in a minimal amount of space.

Features

- Available either single section or double section configuration.
- Compatible with standard 19" mounting - Cable entry from top and bottom.
- Lockable front glass door with ventilated metal frame.
- Removable side panel for enhanced access.
- Ample Ventilation provided thru exhaust fans and vents.
- Durable, textured powder coat finish in 3 colors to compliment any environment: black, computer grey, light gray and pure white.
- Installation and maintenance are easily done with its sturdy and versatile design
- Extensive range of Optronics accessories available



Free Standing Cabinet

Optronics Free Standing Racks are produced combining aesthetic design and sturdy construction with emphasis on flexibility, strength and protection for network and various structured cabling components. These cabinets are compatible with all applications such as LAN/WAN, Networking, Telecommunication, Computer systems, audio/visual broadcast industries and data rooms. Optronics racks are manufactured completely in house in compliance with international manufacturing standards.

Features

- Industrial grade heavy duty steel construction
- Compatible with standard 19"
- Lockable front glass door with ventilated metal frame or full perforated metal door.
- Roof mount fans for better ventilation and Pre punched holes to help optimize airflow
- Adjustable feet and heavy-duty castors are included as a standard feature
- Right/Left-handed doors
- Top and bottom cable entry provided
- Removable side panel for enhanced access
- Superior and flexible cable management facilities
- Durable, textured powder coat finish
- Supplied as fully assembled or flat pack
- Extensive range of Optronics accessories available

ETISALAT PRODUCT APPROVAL	
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