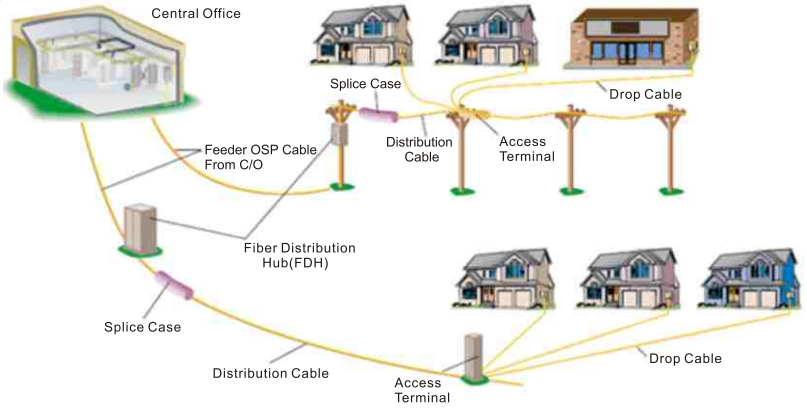
DatoLink

Connectivity solution

Datolink Ltd

—— Fiber optical connectivity solution



www.datolink.com

COMPANY PROFILE

Datolink Ltd was founded in the January of 2007 by several engineers, who have had many years working experience in the area of telecommunication specialized in the fiber optical sector. Datolink is a high-technology oriented company with fiber optical passive products. We are dedicated to the design, manufacture and sales, meanwhile, we can provide customers with complete cabling solutions in installation and maintenance.

The company has a strict and comprehensive system of quality control approved by the standard ISO9001: 2000. Is well connected with the raw materials providers and factories worldwidely, to offer customers a broad line of products with competitive prices and very soon time of delivery.

Our products have been exported to over 20 countries and regions such as Europe, Middle East, Southeast Asia, Latin America, etc. Datolink Ltd is committed to offer the partners high quality products and professional services, we look forward for the successful development with mutual-benefits,for casting the future of fiber optical and telecommunication!

DataLink
Connectivity solution

Fiber optical connectors

Applications:

Local Area Networks (LANs) and Wide Area Networks (WANs)
Fiber Optical CATV, FTTH, FTTB, FTTP etc
Fiber Optical telecommunication systems
Transmission Mode (ATM)
Fiber Optical Backbone
Military Instrumentation

SANA
Fiber Interferometer

BINNA
Auto Focus Interferometer

LCAPC Connector

STPC SM Connector

FCPC SM Connector

FCAPC SM Connector

SCPC SM Connector

LCPC SM Connector

SCAPC Connector

Specifications

	Singlemode	Multimode
Insert Loss	≤0. 20dB	≤0. 25dB
Return Loss	≥50 dB (PC)	PC≥ 35dB
	≥55 dB (UPC)	UPC≥ 40dB
	≥65 dB (APC)	
Durability	<0. 20 dB typical change, 1000 mating	
Operating Temperature	From -40 to + 80℃	From -40 to + 80℃
Ferrule Hole Sizes	125. 0+1/-0μm, Concentricity:≤1. 0μm	125μm, Concentricity:1≤3μm
	125. 5+1/-0μm, Concentricity:≤1. 0μm	127μm, Concentricity:1 ≤3μm
	126. 0+1/-0μm, Concentricity:≤1. 0μm	128μm, Concentricity:1≤3μm

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Fiber optical patch cord & Pigtails

Applications:

Local Area Networks (LANs) and Wide Area Networks (WANs)
Fiber Optical CATV, FTTH, FTTB, FTTP etc
Fiber Optical telecommunication systems
Transmission Mode (ATM)
Fiber Optical Backbone
Military Instrumentation

SCPC SM DX Patch cord

SCAPC SM DX Patch cord

LCAPC SM SX Patch cord

ST-ST MM DX Patch cord

SC-SC MM DX Patch cord

STAPC SM SX Patch cord

FC-FC SM SX Patch cord

LC-LC MM DX Patch cord

ST-LC MM DX Patch cord

FCAPC SM SX Patch cord

STPC MM SX Patch cord

STPC SM SX Patch cord

LC-LC SM DX Patch cord

Specifications		
	Singlemode	Multimode
Insert Loss	≤0. 20dB	≤0. 25dB
Return Loss	≥50 dB (PC)	PC≥ 35dB
	≥55 dB (UPC)	UPC≥ 40dB
	≥65 dB (APC)	
Durability	<0. 20 dB typical change, 1000 mating	
Operating Temperature	From -40 to + 80℃	From -40 to + 80℃
Ferrule Hole Sizes	125. 0+1/-0μm, Concentricity:≤1. 0μm	125μm, Concentricity: 1≤3μm
	125. 5+1/-0μm, Concentricity:≤1. 0μm	127μm, Concentricity: 1 ≤3μm
	126. 0+1/-0μm, Concentricity:≤1. 0μm	128μm, Concentricity: 1≤3μm

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Connectivity solution

Multi fiber optical patch cord& pigtail

MTRJ Patch Cord

Features
- High return loss
- Low insertion loss
- Plug-jack, RJ-45 style
- TIA/TIA 568-A compliant

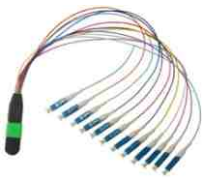
Applications
- CATV, LANs, Telecom, Video
- Active device termination
- Telecommunication networks
- Gigabit applications (ATM, Ethernet)

Specifications	PC SM	PC MM
insertion loss	≤0.3dB	≤0.3dB
Return loss	≥50dB	≥20dB
Operating temperature	-40°C to + 75°C	
Durability	≤0.2dB typical change, 500 mating	
Available Wavelengths	SM=1310& 1550nm, MM=850nm	

Ordering Choice:

Fan-out patch cord
Simplex/Duplex
Pigtail
12 color cable
Loose& Tight Buffer
Boot color
Cable Size
0.9mm, 1.8mm,2.0mm
Packing Style
Cable type
G652D, G657
OM1, OM2, OM3, OM4
OFNR&LSZH& OFNP
Male& Female Type

MPO Patch Cord



Features
- High return loss
- Low insertion loss
- ICE61754-7 Compliant
- Compact design, up to 12 fiber ribbon

Applications
- CATV, LANs, Telecom, Video
- Active device termination
- Telecommunication networks
- Gigabit applications (ATM, Ethernet)

Specifications	UPC SM	PC MM	APC SM
insertion loss	≤0.4dB	≤0.3dB	≤0.4dB
Return loss	≥50dB	≥20dB	≥60dB
Operating temperature	-40°C to + 75°C		
Durability	≤0.3dB typical change, 500 mating		
Available Wavelengths	SM=1310& 1550nm, MM=850nm		

Ordering Choice:

Fan-out patch cord
Bare fiber type
Ribbon cable type
12 color cable
Loose& Tight Buffer
Boot color
Packing style
Cable style, Angle= 8 degrees
Cable type G652D, G657
OM1, OM2, OM3, OM4
OFNR&LSZH& OFNP
Male& Female Type
MPO caste
SC&LC
12 cores & 24 cores

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Water proof &Armored patch cord

Description:

Waterproof Pigtail is a length of fiber with one-end connector attached, suitable for out door use and adverse environmental condition.

Features:

High return loss and low insertion loss
Good reliability and stability
Excellent water-resistance performance
Waterproof, rigid and anti-corrosive copper connector
Simple installation
Capacity: 2, 4, 6 cords Available
Applicable to FC, SC, ST, LC,MU...Connectors

Application:

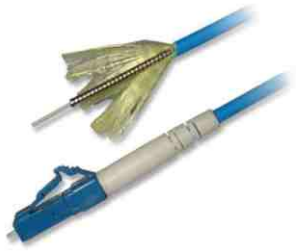
Optic Fiber Communications Systems
Optical Fiber CATV
Connecting with Backbone Optical Cable and Rx

Specification:

Parameter	PC-SM	UPC-SM	APC-SM	PC-MM
Return Loss	≥45dB	≥50dB	≥60dB	≥20dB
Insertion Loss	≤0.3dB	≤0.3dB	≤0.3dB	≤0.3dB
Repeatability 1000 times		≤0.2dB		
Exchange		≤0.2dB		
Working Temperature		-40°C -75°C		

Description:

Datolink FTTH steel armored fiber optical patch cords series are made by covering a variety of Japan made SUS-304 stainless steel banding on the tight tube of 0.9mm PVC.
By adopting the processing technical of indoor soft optical fiber cable and fine workmanship for producing fiber optic patch cord, these special fiber optical patch cords are fully protected by steel armor outside the tight tube of 0.9mm PVC. They have high mechanic performance, reliable optical performance and leading anti-ultraviolet radiation function. These steel armored fiber optical patch cords apply to the fields of various data communication, outdoor emergency, buildings without protective cabling, and presently advocated cabling connection of FTTH etc.



Patch Cord Armored Inside

Features:

Full steel armored protection from ceramic ferrule
High tensile resistance & anti-pressure
Strong anti- ultraviolet radiation
High flexibility

Patch Cord Armored Outside

Application Area:

FTTH
Defense communications
Outdoor Emergency
Buildings without protective cabling

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10G OM3,OM4 patch cord

OM3 Series Optical Fiber

WideGrade 50/125 Multimode Fiber
OM3 fiber series with scalable link-lengths for 10Gb/s Ethernet

OptiGrade fibers are available in different performance classes and are scalable from 300m up to 500m to meet the specific customer application and demand .
OptiGrade fibers are fully compatible with the installed fiber base of conventional 50um Multimode fiber (Legacy Local Area Networks)and j-fiber's entire line of high-performance 50um Multimode fiber .


LC-LC MM DX OM3 Patch cord

OptiGrade Classes		300	400	500	Unit
Bandwidth (Overfilled launch, LED based source)	850nm	⩾1500	⩾2000	⩾2500	Mhz+-km
	1300nm	⩾500	⩾500	⩾500	Mhz+-km
Effective Modal Bandwidth	850nm	⩾2000	⩾2700	⩾4000	Mhz+-km
Transmission Link Length for 10Gb/s	850nm	300	400	500	m
	1300nm	300	300	300	m


SC-SC MM DX OM3 Patch cord

Ordering choice
Fiber
50/125(150)
50/125(300)


LC-LC MM DX OM3 Patch cord

OM4 Series Optical Fiber

OptiGrade 550 Multimode Fiber OM4

Serial 10Gb/s Ethernet high-speed transmission ,OM4 compliant :OptiGrade Multimode Fibers successfully perform in today's worldwide networks for 10Gb/s high-speed data transmission. With OptiGrade 550 j-fiber now introduces an enhanced version which provides full OM4 standard compliance to support extended link lengths and bandwidth demands, specifically in advanced datacenter and office abling applications.

The new OptiGrade 550 Multimode fiber therefore ensures 10Gb/s Ethernet serial transmission over 550m with increased Effective Modal Bandwidth(EMB)of>=4700MHZ+-km.and Overfilled Launch Bandwidth (OFL)of 3500MHZ+-km.


ST-ST MM DX OM3 Patch cord

OptiGrade Classes		Spec.Value	Unit
Bandwidth (Overfilled launch, LED based source)	850nm	⩾3500	Mhz+-km
	1300nm	⩾500	Mhz+-km
Effective Modal Bandwidth	850nm	⩾47000	Mhz+-km
Transmission Link Length for 10Gb/s	850nm	500	m
	1300nm	500	m


MPO-MPO MM OM3
12 core Patch cord

Ordering choice
Fiber
50/125(150)
50/125(300)
50/125(500)

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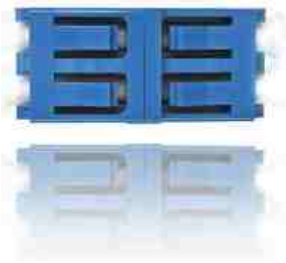
Fiber optical adapter & attenuator

ST DX Adapter

FC-SC DX Adapter

FC D type Adapter

SC SM DX Adapter



LC SM DX Adapter

Features:

Compliant with ANSI, TIA/EIA, NTT and JIS etc
Meets UL94-V0 Flammability Requirements
High Precision Alignment
Low Insertion Loss and High Back Reflection Loss
Excellent Interchangeability
Excellent Repeatability
Good Temperature Characteristic
Choice of Housing Material and Sleeve Material

Specifications:

Insert loss: ≤0.20dB
Durability<0.20dB typical change, 1000 mating
Operating temperature: -40 to +80 centigrade

SC/PC Attenuator

FC/PC Attenuator

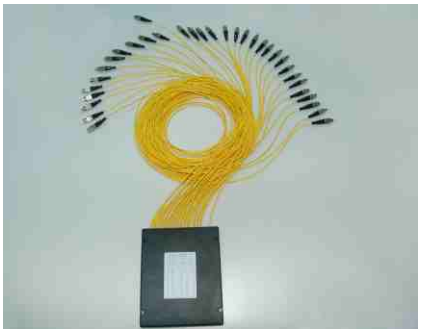
LC/PC Attenuator

ST/PC Attenuator

Specifications:

Connector Type	SC/FC/ST/LC/MU/MTRJ
Operating Wavelength	1310、1550 nm
Attenuation Value	1dB～10dB (1dB), 15, 20, 25dB
Optical In-put Power	≥300 mW
Polarization Loss	≤0.20 dB
Return Loss (dB)	P Grade(Return Loss≥50dB) , A Grade(Return Loss≥40dB)
Operating Temp (℃)	-30—+75℃
Storage Temp (℃)	-40—+85℃

Fused type splitter & PLC splitter



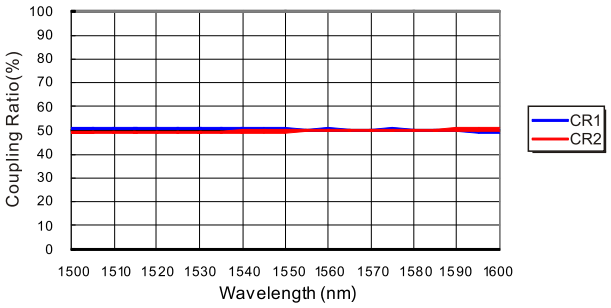
Datolink Standard Single Mode Couplers are high quality components designed to divide or combine optical signal in optical fiber system. These devices are fabricated by using the fused biconical taper (FBT) process and are reliable over wide range of temperature. The operating wavelength is 1310nm or 1550nm and the pass band is 80nm. The coupling ratio can change from 1:99 to 50:50. Various packagings and pigtail configurations can satisfy our customers' requirements.

Features:
Low insertion loss
Low excess loss
Low PDL
High directivity
Long haul reliability
Customer defined specifications

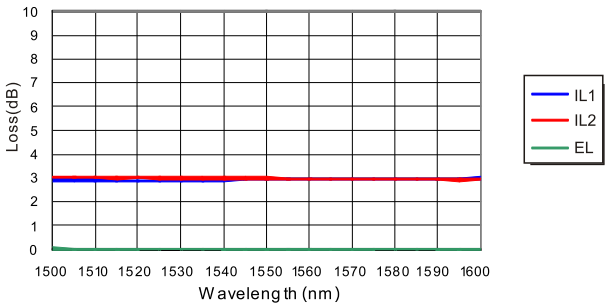
Application:
Telecommunications
Fiber in the loop
Local area network
CATV
Fiber optic sensing
Test instruments

Spectral Performance:

Coupling Ratio of Single Window Wideband 50/50 Coupler

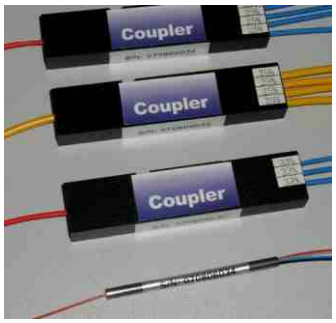


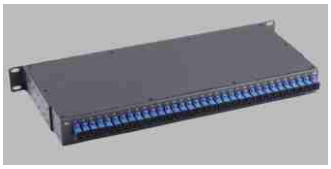
Insertion Loss & Excess Loss of Single Window Wideband 50/50 Coupler



Description:

Datolink PLC splitter is a high quality passive device. It is especially for passive internet (EPON, BPON, and GPON). And different package can follow clients' different inquiry.





Parameters		1X2	1X4	1X8	1X16	1X32	1X64
Fiber type		SMF-28e or customer specified					
Operating wavelength(nm)		1260-1650					
Insertion loss(dB)	Max (P/A)	3.8/4.0	7.2/7.4	10.5/10.7	13.5/13.7	16.5/16.9	21.0
Loss Uniformity(dB)	Max	0.6	0.6	0.8	1.2	1.7	2.5
Return loss(dB)	Min (P/A)	55/50	55/50	55/50	55/50	55/50	50
PDL(dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity(dB)	Min	55	55	55	55	55	55
Wavelength Dependent loss(dB)	Max	0.5	0.5	0.5	0.8	0.8	0.8
Temperature Stability(-40 ～85℃)(dB)	Max	0.5	0.5	0.5	0.8	0.8	1
Operating Temperature (℃)		-40～+85					
Storage Temperature (℃)		-40～+85					

Fast connector

SC Fast connector

ITEM	Technical Parameters
Applicable for	2mm/3mm Indoor cable
Optical fiber diameter	125m (652 & 657)
Tight buffer diameter (m)	900m
Fiber mode	Single & multi mode
Operation time	About 120s (no fiber cut)
Insert loss	⩽ 0.3dB(1310nm & 1550nm)
Return loss	⩽ -40dB
Fastening strength of naked fiber	>5 N
Fastening strength of naked fiber holder	>10 N
Tensile strength	>50 N
Using temperature	-40~+75oC
On-line tensile strength (20 N)	IL ⩽ 0.2dB RL <= 5dB
Mechanical durability (500 times)	IL ⩽ 0.2dB RL <= 5dB
Drop-off test (drop-off height 4m, once per direction, totally 3 times)	IL ⩽ 0.2dB RL <= 5dB

FC Fast connector

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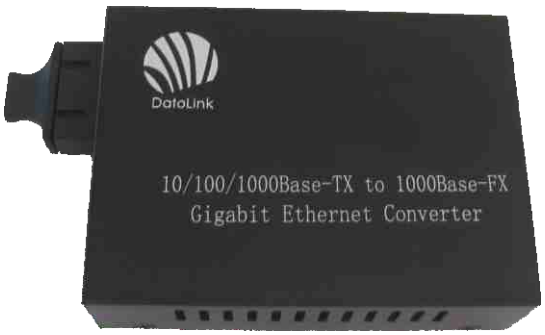
Fiber media converter



Key Features:

Auto-adaptation 10Mbps and 100Mbps, convenient for network updating

With distinct IC IP113 HIC solution, low-temperature-rise chip, no need of cooling system, realization of flowcontrol, decrease of broadcast storm

With famous brand optical-electronic-integration module providing excellent optical and electrical properties to ensure reliable data transmission and long working life

Supporting broadcast filtering, address auto-learning and auto-updating, and store-and-forward operating mechanism

Supporting full-duplex flow control or half-duplex back pressure working pattern, along with Auto-negotiation

Single RJ-45 electrical port NIC/HUB, auto cross-identification, link to computer network cards or switches or HUB

Supporting the switches to choose between 10/100Mbps store-and forwardor 100Mbps straight-through transmission pattern(distinct)

Supporting 1600byte super data packet transmission

Providing indicator lamps for link-loss, electrical and optical link diagnosing, dynamic data transmission and full/half duplex, data rate

With more than 50,000 hours MTBF, complying with telecom operating standard

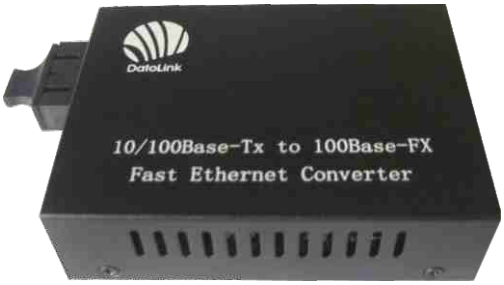
Ultra low power dissipation(< 2.5W, Input:AC140 ~ 260V),low heat, long-time stable work

Supporting choosing optical ports from dual fiber(MM),dual fiber(SM),single fiber(SM)

Technical Parameter:

Access Method:	10/100Mbps, 1000Mbps, 10/100/1000Mbps
Standard:	IEEE802.3 10Base-T Ethernet,IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,IEEE802.1q,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Wavelength:	850nm/1310nm/1550nm
Distance:	Dual Fiber MM： 2Km Dual Fiber SM： 25/40/60/80/100/120Km Single Fiber SM：20/40/60/80Km CAT5：100m
Port:	RJ45 Connector： Connecting with STP/UTP Cat5 Optical Connector：MM-SC or ST (fiber dimension: 50,62.5/125μm) SM-SC or FC (fiber dimension: 9/125 μm) Single Fiber SM-SC/ FC(fiber dimension: 9/125 μm)

Conversion Method:	Media Conversion, Store-and-Forward/straight through
MAC Address Table:	I K
Buffer Size:	1Mbit
Flow Control:	Duplex：flow control ; Half duplex：back pressure
Time Delay	Store-and-Forward ： 9.6us ， Straight-through： 0.9us
BER	<1/1000000000
LED Indicator Lamps:	POWER， FX LINK/ACT (fiber link) FDX (FX-full duplex)， TP LINK/ACT(twisted pair link) TP 100 (TP 100M data rate)， FX 100 (FX 100M data rate)(external power)
Power Supply:	AC220 0.5A /DC-48(internal power)
Power Dissipation:	<2.5W
Operating Temperature:	0 ~ 50℃
Humidity:	5%~90%
Storage Temperature:	-40~ 70℃
Storage Humidity:	5%~90% non-condescending
Weight:	Net weight:0.416kg(cabinet);0.114kg(power cords) Gross weight:0.53kg
Dimension:	31mm(H)*127mm(W)*155mm(D)(internal power) 25mm(H)* 22mm(W)* 77mm(D)(module-card)



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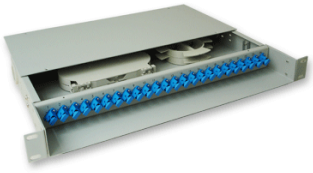
Fiber optical terminal box/ODF

Fixed wall mounted box

Fiber terminal box



Rack mounted patch panel

ODF

Name	Capacity	P/N	Size (mm)
Drawer style ODF unit	12Core	DTLPP-D12	482×300×45
Drawer style ODF unit	24Core	DTLPP-D24/36	482×300×90
Drawer style ODF unit	36Core	DTLPP-D24/36	482×300×90
Drawer style ODF unit	48Core	DTLPP-D48	482×300×135
Drawer style ODF unit	72Core	DTLPP-D72	482×300×180
Drawer style ODF unit	96Core	DTLPP-D96	482×300×225
Drawer style ODF unit	144Core	DTLPP-D144	482×300×360

Indoor wall mounted box

Key Features:

Standard 19” width
Capacity: 1-144 fibers, 12 fibers each module
The fusion splicing and distribution module is with sliding and can be pulled out separately.
Material of the metal box: Steel plates and aluminum alloy
Suitable for inserting installation of SC, FC, ST and LC adapter
Front and rear covers can be opened, it is convenient for fiber connecting, supervising and maintaining

Specifications:

Temperature: -40 to +80 degrees Celsius
Atmosphere: 70 to 106kpa
Sealing property at normal temperature: Internal pressure: 70 KPa, without decrease in 72 hours
High temperature sealing property: internal pressure: 70KPa, without decrease in 168 hours at 60 degree
Insulated resistance：>2×104MΩ
Intensity：15KV (DC) not being broken down, has no flying arc.
Additional Loss: No additional loss when optic fibers are winded in the splice trays
The-ageing time of the material of the enclosure is beyond 20 years

Slidable rack mounted ODF

Outdoor wall mounted box

Slidable fiber optic patch panel

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Fiber optical Splice closure

Key Features:

The box add aging-resistant in imported high tensile construction plastic out-faster is made up of stainless steel.
Overlap structure in splicing tray easy to install
Suitable for ordinary fiber and ribbon fiber
Perfect leak prooflessness and fine function
Perfect and reliable sealing operations
Fiber-bending radium guaranteed more than 40mm
Full accessories for convenient operations
Fiber optic splice closure can be used repeatedly
High reliability
For aerial, and direct buried applications

Specifications:

Temperature: -40 to +80 degrees Celsius
Atmosphere: 70 to 106kpa
Sealing property at normal temperature: Internal pressure: 70 KPa, without decrease in 72 hours
High temperature sealing property: internal pressure: 70KPa, without decrease in 168 hours at 60 degree
Insulated resistance: >2×104MΩ
Intensity: 15KV (DC) not being broken down, has no flying arc.
Add ional Loss: No additional loss when optic fibers are winded in the splice trays
The-aging time of the material of the enclosure is beyond 20 years

Item	Description	Number of inlet/outlet ports	Capacity(Cores)	Size(mm)
1	Fiber closure, dome heat shrinkable type DTLCE-DH1	5	Bunchy: 6-48	ϕ178x299
2	Fiber closure, dome heat shrinkable type DTLCE-DH2	5	Bunchy: 12-96, Ribbon: up to 288	ϕ190x435
3	Fiber closure, dome heat shrinkable type DTLCE-DH3	8	Bunchy: 12-240, Ribbon: up to 576	ϕ220x455




Item	Description	Number of inlet/outlet ports	Capacity(Cores)	Size(mm)
1	Fiber closure, horizontal type DTLCE-H1	4	Bunchy: 6-48	280x200x90
2	Fiber closure, horizontal type DTLCE-H2	6	Bunchy: 6~96; Ribbon: max. 144	410x200x120
3	Fiber closure, horizontal type DTLCE-H3	6	Bunchy: 12~192, Ribbon: max. 432	450x216x160




Item	Description	Number of inlet/outlet ports	Capacity(Cores)	Size(mm)
1	Fiber closure, dome type DTLCE-D1	4	Bunchy: 6-48	Φ178x288
2	Fiber closure, dome type DTLCE-D2	4	Bunchy: 12-96, Ribbon: up to 288	Φ190x415
3	Fiber closure, dome type DTLCE-D3	6	Bunchy: 12-240, Ribbon: up to 576	Φ220x455




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