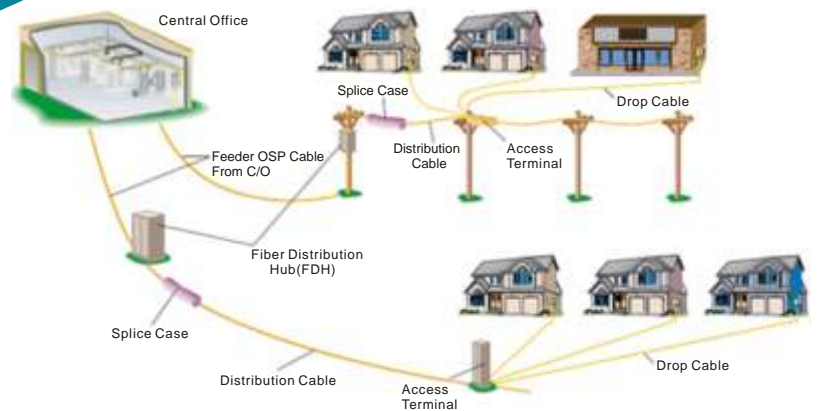




Connectivity solution

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 worldwide, 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!



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	≤ 20 dB typical change ,1000 mating	
Operating Temperature	From -40 to +80	
Ferrule Hole Sizes	125.0 ± 1.0 μm ,Concentricity : 1.0 μm	125 μm ,Concentricity : 1.3 μm
	125.5 ± 1.0 μm ,Concentricity : 1.0 μm	127 μm ,Concentricity : 1.3 μm
	126.0 ± 1.0 μm ,Concentricity : 1.0 μm	128 μm ,Concentricity : 1.3 μm

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



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	
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

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

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.

Features:

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

Application Area:

- FTTH
- Defense communications
- Outdoor Emergency
- Buildings without protective cabling



Patch Cord Armored Inside



Patch Cord Armored Outside

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 $\geq 4700\text{MHZ}+\text{-km}$.and Overfilled Launch Bandwidth (OFL)of $3500\text{MHZ}+\text{-km}$.



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)

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 Input Power	300 mW
Polarization Loss	0.20 dB
Return Loss (dB)	P Grade Return Loss 50dB) A Grade Return Loss 40dB)
Operating Temp (°C)	-30— +75
Storage Temp (°C)	-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:

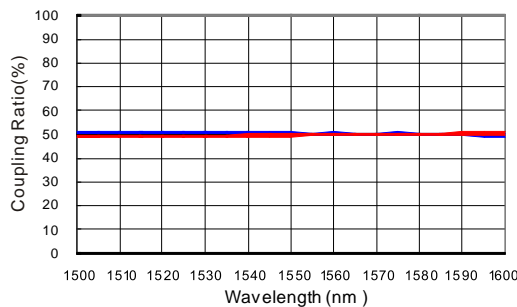
- Low insertion loss
- Low excess loss
- Low PDL
- High directivity
- Long haul reliability
- Customer defined specifications

Application:

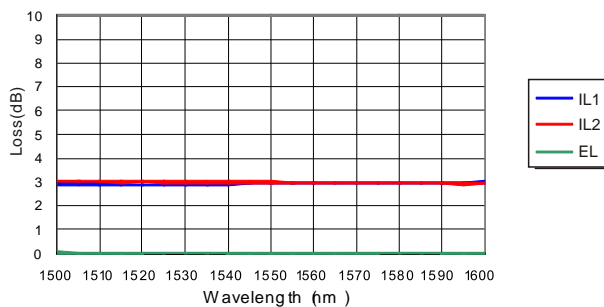
- Telecommunications
- Fiber in the loop
- Local area network
- CATV
- Fiber optic sensing
- Test instruments

Spectral Performance:

Coupling Ratio of Single Window Wideband 50/50 Coupler

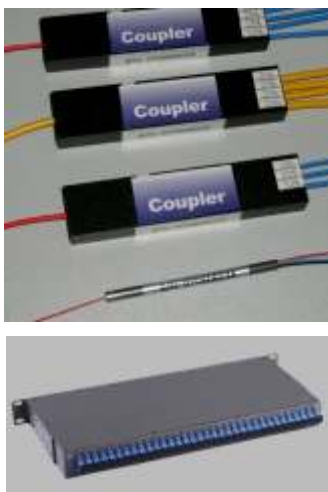


Insertion Loss & Excess Loss of Single Window Wideband 50/50 Coupler



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	125μm (652 & 657)
Tight buffer diameter (μm)	900μm
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

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 forward or 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
Dual Fiber MM : 2Km

Distance : Dual Fiber SM : 25 /40 /60 /80 /100 /120Km
Single Fiber S M20 /40 /60 /80Km
CAT5 : 100m

Port : RJ45 Connector : Connecting with STP /UTP Cat5
Optical Connector : MM /SC or ST fiber dimension :50 /62.5 /125 μm)
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 : 1 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)



Fiber optical patch panel/ODF

Slidable rack mount type patch panel

Slidable Rack-mount Fiber Optic Distribution Frame has aluminum sliding fittings with self-locking functions prevent the drawer from falling when moved; 19-inch rack mount for ST, SC, LC, MTRJ, FC adapters. The drawer is the holding board for splicing, easy to withdraw the fibers when testing and distributing.



Drawer Type ODF

The ODF unit is a necessary part of the indoor optical distribution frame. 12 cores fusion splicing and distribution module plays the main role and its function is splicing, fiber storage and protection. A completed ODF unit will be with adapter, pigtail and accessories like splice protection sleeve, nylon tie, snake like tube, screw. Please confirm which type if you want adapter and pigtail with the ODF unit.



Outdoor Wall Type Patch Panel

Outdoor Wall-mount Fiber Optic Distribution Frame is mainly used for connecting the outdoor optical cables, optical patch cords and optical pigtails. It can be wall mounted or pole mounted, and facilitates the test and refit of the lines.



Fixed Rack Mount Type Patch Panel

This fixed type fiber optic patch panel is standard 19 inch design, cold roll steel box, fixed type, with metal front cover; Adapter plate of 180x40mm can be unloaded; Applicable to existing systems.



Indoor Wall Type Patch Panel

Fiber optic indoor wall mount patch box can manage both single fiber and ribbon & bundle fiber cables for indoor using. There are FC, LC, SC, and ST output interfaces optional and large working space to integrate the pigtails, cables and adapters.



Fiber optical terminal box

Model: DTLPP-OTBPA is a ABS plastic terminal box, 2 input cable ports, 16 output cable ports; PLC splitter can be loaded inside, suitable for indoor and outdoor wall-mounted & pole mounted using.

Features:

- Made of high impact ABS plastic
- Can accommodate 1x4, 1x8, 1X16, 2x4, 2x8 & 2x16 PLC splitter.
- Outdoor or indoor using, waterproof, IP66
- Up to 16 FTTH drops.
- Wall mounting and pole mounting application
- Dimension: 300x220x80mm
- Weight: 1.78kgs

DTLPP-OTBPH
(200*120*46 mm)



DTLPP-OTBPG
(207*181*45 mm)



DTLPP-OTBMB
(265*155*48 mm)



DTLPP-OTBPD
(265*155*55 mm)



DTLPP-OTBPE
(265*300*78 mm)



DTLPP-OTBPF
(375*185*70 mm)



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 : >2×104M?
 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	178x299
2	Fiber closure, dome heat shrinkable type DTLCE-DH2	5	Bunchy: 12-96, Ribbon: up to 288	190x435
3	Fiber closure, dome heat shrinkable type DTLCE-DH3	8	Bunchy: 12-240, Ribbon: up to 576	220x455



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

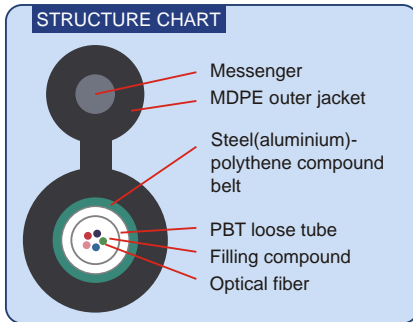


Item	Description	Number of inlet /outlet ports	Capacity (Cores)	Size(mm)
1	Fiber closure ,dome type DTLCE D1	4	Bunchy : 6 48	178x288
2	Fiber closure ,dome type DTLCE D2	4	Bunchy :12 96 ,Ribbon :up to 288	190x415
3	Fiber closure ,dome type DTLCE D3	6	Bunchy :12 240 ,Ribbon :up to 576	220x455



Fiber optical cable

CENTRAL LOOSE TUBE 8 SELF-SUPPORTING OPTIC CABLE(GYXTC8S)

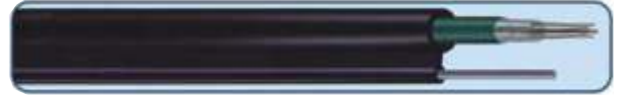


Construction:
 Loose tube
 Filling compound
 Corrugated steel tape coated with PE jacket
 Self-supporting by high grade zinc-galvanized steel wire

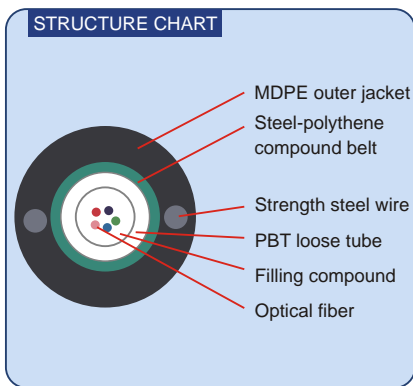
Features:
 Low attenuation and dispersion, special control of exceed length ensure the good transmission performance in varying environment
 Good water blocking material prevents the cable from longitudinal water penetration
 High grade zinc-galvanized steel wires as self-supporting element enhance the tensile resistance

Application:
 Suitable for LAN and uptown communication

Installation:
 By aerial



CENTRAL TUBE TYPE ARMORED OPTIC CABLE(GYXTW)

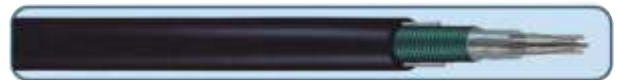


Construction:
 - Loose tube
 - Central loose tube
 - Steel-polythene compound belt
 - Two parallel reinforcing steel wires placed inside the Steel-polythene compound belt in shorter axial side.

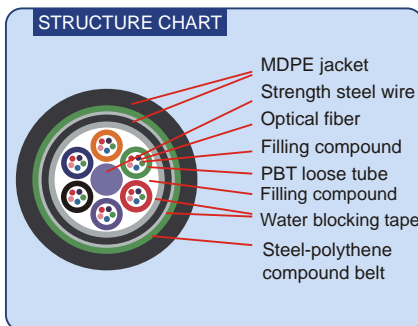
Features:
 - Special patented steel tape armoring technology can provide the better tensile, crushing and temperature performance.
 - Low attenuation and dispersion, special control of exceed length ensure the good transmission performance in varying environment.
 - Excellent mechanical and water blocking performance.
 - Good flexibility and bending performance
 - Small outer diameter, lightness and compact construction
 - Shot-gun resistance to some extent.

Application:
 - Suitable for long-distance truck, LAN and trans-area communication

Installation:
 - By duct, aerial and direct burial



STRANDED LAYER OPTIC CABLE (GYTY53)

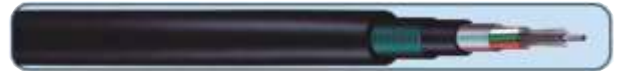


Construction:
 - Loose tube
 - Metallic central reinforcing element
 - Filling compound
 - PE inner sheath
 - Corrugated steel tape coated with PE outer jacket

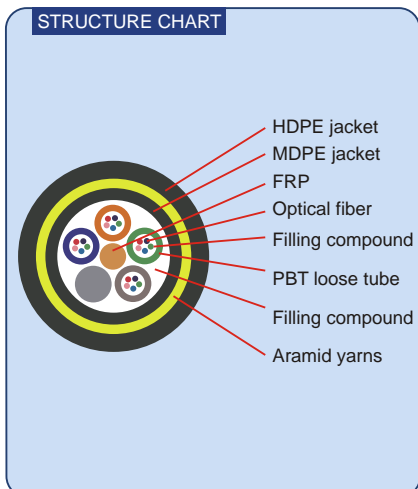
Features:
 - Low attenuation and dispersion, special control of exceed length and layer stranding technology ensure the good transmission, mechanical and environment performance.
 - Corrugated steel tape enhances the lateral crushing resistance of cable.
 - Filling compound and water blocking tape prevent the cable from longitudinal water penetration.
 - Double jacket design enhances the crushing performance.
 - Provide multi-protection to the cable and prevent the mechanical damage.

Application:
 - Suitable for long-distance truck and LAN communication.

Installation:
 -By duct, aerial and direct burial.



ADSS STRANDED LAYER OPTIC CABLE(ADSS)



Construction:
 - Loose tube
 - Nonmetallic central reinforcing element
 - Filling compound
 - PE jacket or anti-electric erosion AT sheath
 - Aramid yarns as reinforcing element

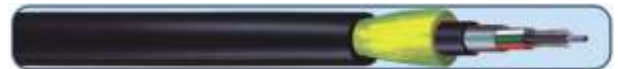
Features:
 - Low attenuation and dispersion, special control of exceed and layer stranding technology ensure the good transmission, mechanical and environment performance.
 - Non-metallic element free forms the electric-magnetic intervention.
 - Small outer diameter, lightness, compact construction and good flexibility.
 - Excellent tensile resistance.

Application:
 - Suitable for
 - The long-distance transmission in high-voltage area and the parallel area of high-voltage lines
 - The area susceptible to strong electric-magnetic intervention or lightning
 - LAN

Installation:
 - By aerial (lighting and strong electric field)

ADSS optic cable order instruction:

- The optic cable tension resistant performance can be designed to the customer's requirement of lay droop and span, we should the below condition.
- 1.The highest temperature and the lowest temperature and the average temperature
- 2.The max speed of wind 3.Voltage rate 4.The max covering ice
- 5.The quantity, structure size and distribution of pole and lower



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