



شركة المستقبل السريع للاتصالات وتقنية المعلومات

Swift Future Telecommunications & Information Technology

Connect Today ... Build Tomorrow

شركة المستقبل السريع للاتصالات وتقنية المعلومات

Swift Future Telecommunications & Information Technology

RACK FOR

STRUCTURED CABLING, NETWORKING AND DATA CENTER

شركة المستقبل السريع للاتصالات وتقنية المعلومات
Swift Future Telecommunications & Information Technology
Connect Today ... Build Tomorrow





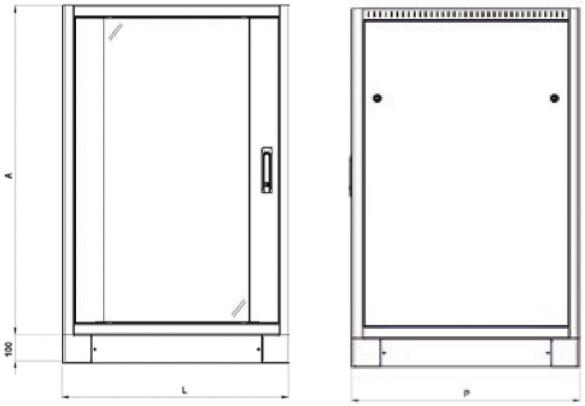
Network IP20 600x600 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19" adjustable rails
3. Glass door with revolving handle
4. Removable side panels
5. Cable entry from base and roof
6. Allows the installation of a ventilation
7. Plinth with closing flange and feet



Dimensions



Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F2466GNBG2	Network IP20 with glass door	24	1256 mm	600 mm	600 mm	Black, RAL 9005
IC-F3066GNBG2	Network IP20 with glass door	30	1435 mm	600 mm	600 mm	Black, RAL 9005
IC-F3666GNBG2	Network IP20 with glass door	36	1685 mm	600 mm	600 mm	Black, RAL 9005
IC-F4266GNBG2	Network IP20 with glass door	42	2057 mm	600 mm	600 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF137BA	19" Mounting rail (1 pc)	24	/	/	Galvanized
AC-SF137BA	19" Mounting rail (1 pc)	30	/	/	Galvanized
AC-SF137BA	19" Mounting rail (1 pc)	36	/	/	Galvanized
AC-SF137BA	19" Mounting rail (1 pc)	42	/	/	Galvanized

subject to technical changes

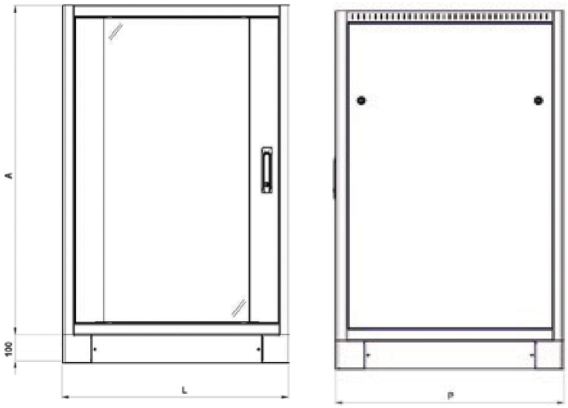
Network IP20 600x800 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19" adjustable rails
3. Glass door with revolving handle
4. Removable side panels
5. Cable entry from base and roof
6. Allows the installation of a ventilation
7. Plinth with closing flange and feet



Dimensions



Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F2468GNBG2	Network IP20 with glass door	24	1256 mm	600 mm	800 mm	Black, RAL 9005
IC-F3068GNBG2	Network IP20 with glass door	30	1435 mm	600 mm	800 mm	Black, RAL 9005
IC-F3668GNBG2	Network IP20 with glass door	36	1685 mm	600 mm	800 mm	Black, RAL 9005
IC-F4268GNBG2	Network IP20 with glass door	42	2057 mm	600 mm	800 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF155BA	19" Mounting rail (1 pc)	24	/	/	Galvanized
AC-SF155BA	19" Mounting rail (1 pc)	30	/	/	Galvanized
AC-SF155BA	19" Mounting rail (1 pc)	36	/	/	Galvanized
AC-SF155BA	19" Mounting rail (1 pc)	42	/	/	Galvanized

subject to technical changes

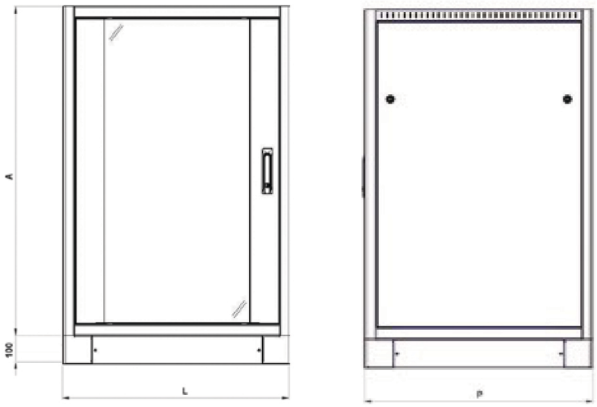
Network IP20 800x800 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19" adjustable rails
3. Glass door with revolving handle
4. Removable side panels
5. Cable entry from base and roof
6. Allows the installation of a ventilation
7. Plinth with closing flange and feet



Dimensions



Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F2488GNBG2	Network IP20 with glass door	24	1256 mm	800 mm	800 mm	Black, RAL 9005
IC-F3088GNBG2	Network IP20 with glass door	30	1435 mm	800 mm	800 mm	Black, RAL 9005
IC-F3688GNBG2	Network IP20 with glass door	36	1685 mm	800 mm	800 mm	Black, RAL 9005
IC-F4288GNBG2	Network IP20 with glass door	42	2057 mm	800 mm	800 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF155BA	19" Mounting rail (1 pc)	24	/	/	Galvanized
AC-SF155BA	19" Mounting rail (1 pc)	30	/	/	Galvanized
AC-SF155BA	19" Mounting rail (1 pc)	36	/	/	Galvanized
AC-SF155BA	19" Mounting rail (1 pc)	42	/	/	Galvanized

subject to technical changes

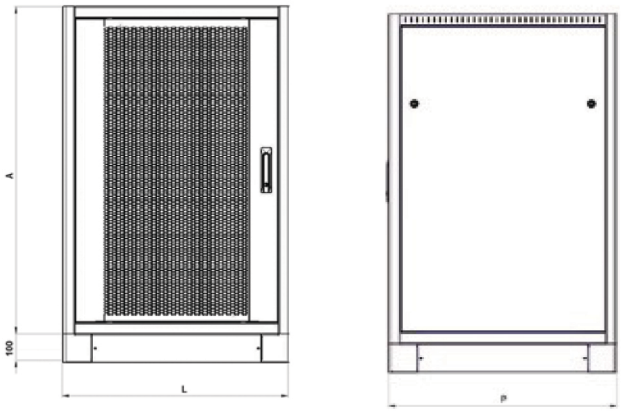
Server IP20 600x1000 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19" adjustable rails
3. 80% perforated doors and revolving handle
4. 80% perforated doors and revolving handle
5. Removable side panels
6. Cable entry from base and roof
7. Allows the installation of a ventilation
8. Plinth with closing flange and feet



Dimensions



Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F2461GNBG2	Server IP20 with perforated doors	24	1256 mm	600 mm	1000 mm	Black, RAL 9005
IC-F3061GNBG2	Server IP20 with perforated doors	30	1435 mm	600 mm	1000 mm	Black, RAL 9005
IC-F3661GNBG2	Server IP20 with perforated doors	36	1685 mm	600 mm	1000 mm	Black, RAL 9005
IC-F4261GNBG2	Server IP20 with perforated doors	42	2057 mm	600 mm	1000 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF176BA	19" Mounting rail (1 pc)	24	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	30	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	36	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	42	/	/	Galvanized

subject to technical changes

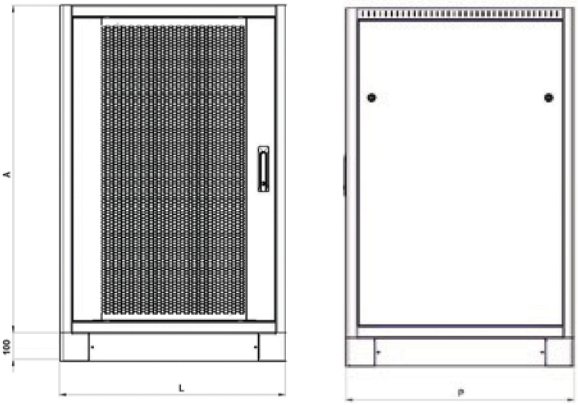
Server IP20 800x1000 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19" adjustable rails
3. 80% perforated doors and revolving handle
4. 80% perforated doors and revolving handle
5. Removable side panels
6. Cable entry from base and roof
7. Allows the installation of a ventilation
8. Plinth with closing flange and feet



Dimensions



Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F2481PNBG2	Server IP20 with perforated doors	24	1256 mm	800 mm	1000 mm	Black, RAL 9005
IC-F3081PNBG2	Server IP20 with perforated doors	30	1435 mm	800 mm	1000 mm	Black, RAL 9005
IC-F3681PNBG2	Server IP20 with perforated doors	36	1685 mm	800 mm	1000 mm	Black, RAL 9005
IC-F4281PNBG2	Server IP20 with perforated doors	42	2057 mm	800 mm	1000 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF176BA	19" Mounting rail (1 pc)	24	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	34	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	42	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	48	/	/	Galvanized

subject to technical changes

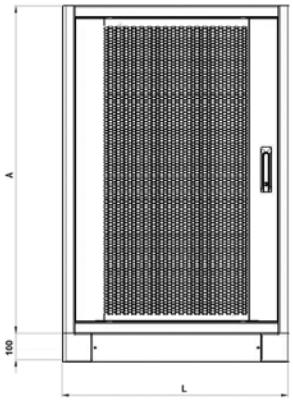
Server IP20 600/800x1000 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19" adjustable rails
3. 80% perforated doors and revolving handle
4. Split perforated 80% rear doors and revolving handle
5. Removable side panels
6. Cable entry from base and roof
7. Allows the installation of a ventilation
8. Plinth with closing flange and feet



Dimensions





Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F4261PNBG2	Server IP20 with perforated doors	42	2057 mm	600 mm	1000 mm	Black, RAL 9005
IC-F4861PNBG2	Server IP20 with perforated doors	48	2324 mm	600 mm	1000 mm	Black, RAL 9005
IC-F4281PNBG2	Server IP20 with perforated doors	42	2057 mm	800 mm	1000 mm	Black, RAL 9005
IC-F4881PNBG2	Server IP20 with perforated doors	48	2324 mm	800 mm	1000 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF176BA	19" Mounting rail (1 pc)	42	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	48	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	42	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	48	/	/	Galvanized

subject to technical changes

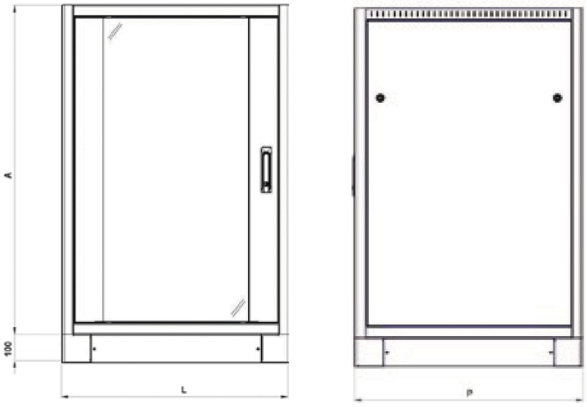
Server IP20 600x1000 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19" adjustable rails
3. Glass door with revolving handle
4. Removable side panels
5. Cable entry from base and roof
6. Allows the installation of a ventilation
7. Plinth with closing flange and feet



Dimensions



Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F2461GNBG1	Server IP20 with glass door	24	1256 mm	600 mm	1000 mm	Black, RAL 9005
IC-F3061GNBG1	Server IP20 with glass door	30	1435 mm	600 mm	1000 mm	Black, RAL 9005
IC-F3661GNBG1	Server IP20 with glass door	36	1685 mm	600 mm	1000 mm	Black, RAL 9005
IC-F4261GNBG1	Server IP20 with glass door	42	2075 mm	600 mm	1000 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF176BA	19" Mounting rail (1 pc)	24	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	30	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	36	/	/	Galvanized
AC-SF176BA	19" Mounting rail (1 pc)	42	/	/	Galvanized

subject to technical changes

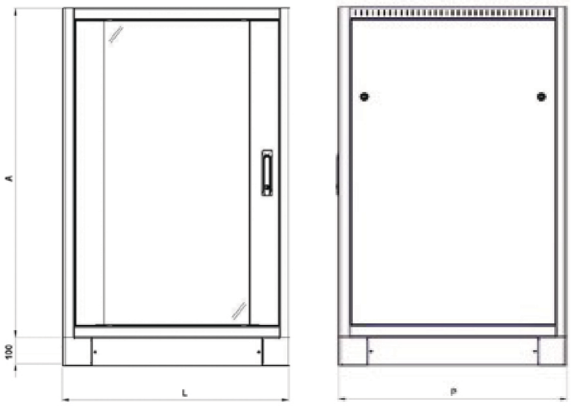
Server IP20 800x1000 - Floor mounting

Construction Drawing

1. Removable supporting structure
2. 19” adjustable rails
3. Glass door with revolving handle
4. Removable side panels
5. Cable entry from base and roof
6. Allows the installation of a ventilation
7. Plinth with closing flange and feet



Dimensions



Versions

Code	Description	Units	Height*	Width	Depth	Color
IC-F2481GNBG1	Server IP20 with glass door	24	1256 mm	800 mm	1000 mm	Black, RAL 9005
IC-F3081GNBG1	Server IP20 with glass door	30	1435 mm	800 mm	1000 mm	Black, RAL 9005
IC-F3681GNBG1	Server IP20 with glass door	36	1685 mm	800 mm	1000 mm	Black, RAL 9005
IC-F4281GNBG1	Server IP20 with glass door	42	2057 mm	800 mm	1000 mm	Black, RAL 9005

* Complete with 100 mm plinth. Other dimensions and configurations on request.

Accessories

Code	Description	Units	Width	Depth	Color
AC-SF176BA	19” Mounting rail (1 pc)	24	/	/	Galvanized
AC-SF176BA	19” Mounting rail (1 pc)	30	/	/	Galvanized
AC-SF176BA	19” Mounting rail (1 pc)	36	/	/	Galvanized
AC-SF176BA	19” Mounting rail (1 pc)	42	/	/	Galvanized

subject to technical changes

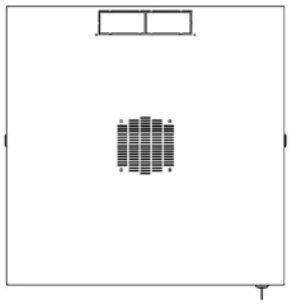
Office IP20 600x450 - Wall mounting

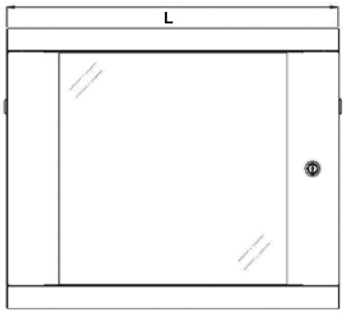
Construction Drawing

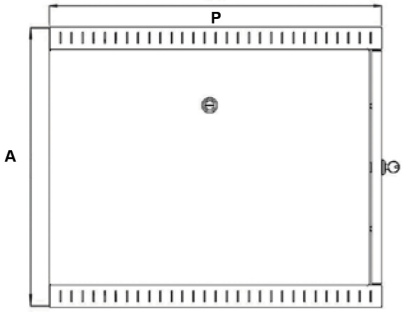
1. Removable supporting structure
2. 19” adjustable rails
3. Glass door with lock
4. Removable side panels
5. Cable entry from base and roof
6. Allows the installation of a ventilation
7. Omega reinforcement and cable fixing



Dimensions







Versions

Code	Description	Units	Height	Width	Depth	Color
IC-W464GNBG1	Office IP20 with glass door	4	275 mm	600 mm	450 mm	Black, RAL 9005
IC-W664GNBG1	Office IP20 with glass door	6	371 mm	600 mm	450 mm	Black, RAL 9005
IC-W964GNBG1	Office IP20 with glass door	9	504 mm	600 mm	450 mm	Black, RAL 9005
IC-W1264GNBG1	Office IP20 with glass door	12	637 mm	600 mm	450 mm	Black, RAL 9005
IC-W1664GNBG1	Office IP20 with glass door	16	815 mm	600 mm	450 mm	Black, RAL 9005

Other dimensions and configurations on request.

Accessories

Code	Description	Height	Width	Depth	Color
	Single fan 220V with MK plug	120 mm	120 mm	38 mm	Black, RAL 9005

subject to technical changes

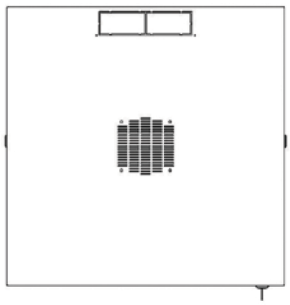
Office IP20 600x600 - Wall mounting

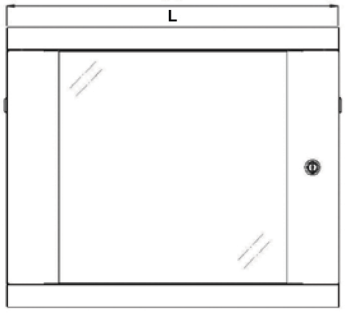
Construction Drawing

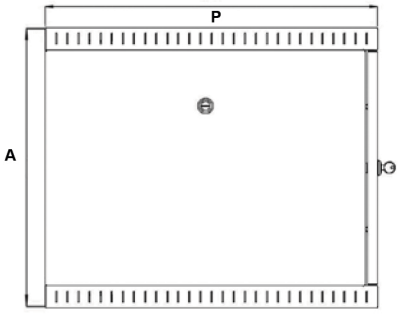
1. Removable supporting structure
2. 19” adjustable rails
3. Glass door with lock
4. Removable side panels
5. Cable entry from base and roof
6. Allows the installation of a ventilation
7. Omega reinforcement and cable fixing



Dimensions







Versions

Code	Description	Units	Height	Width	Depth	Color
IC-W466GNBG1	Office IP20 with glass door	4	275 mm	600 mm	600 mm	Black, RAL 9005
IC-W666GNBG1	Office IP20 with glass door	6	371 mm	600 mm	600 mm	Black, RAL 9005
IC-W966GNBG1	Office IP20 with glass door	9	504 mm	600 mm	600 mm	Black, RAL 9005
IC-W1266GNBG1	Office IP20 with glass door	12	637 mm	600 mm	600 mm	Black, RAL 9005
IC-W1666GNBG1	Office IP20 with glass door	16	815 mm	600 mm	600 mm	Black, RAL 9005

Other dimensions and configurations on request.

Accessories

Code	Description	Height	Width	Depth	Color
	Single fan 220V with MK plug	120 mm	120 mm	38 mm	Black, RAL 9005

subject to technical changes

Data Center Product



Fiber Patch Panel

The Optical Distribution Frame (ODF)is a centralized fiber management system used in data centers and telecom rooms to terminate, organize, and distribute optical fiber cables. It provides secure housing for splicing, patching, and storage of fiber connections.
ODFs support both single mode (OS2)and multimode (OM1/OM2/OM3/OM4/OM5)fibers and are designed with modular structures for scalability. They include cable routing, bending radius control, and protection features to ensure signal integrity and easy maintenance.
A Fiber Patch Cord is a pre-terminated fiber optic cable used to connect equipment or patch panels within the data center.
Patch cords are available in:
Single Mode (OS2)–typically yellow jacket, used for long-distance/high bandwidth
Multimode (OM1–OM5)–typically orange/aqua/violet jackets for short-distance high-speed networks
They come with various connector types such as LC, SC, FC, and ST, and in simplex or duplex configurations.

MPO Ultra HD Patch Panel





Fiber Splice PatchPanel





Flexible for fiber patch or Splice
Metal Slide rails
MAX 192F in 2U
H Type Splice Tray+175 Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Metal Slide rails
MAX 96F in 2U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available



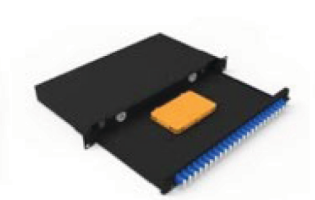
Flexible for fiber patch or Splice
Metal Slide rails
MAX 96F in 2U
C Type Splice Tray+125 Adapter plate
Customized LOGO is available



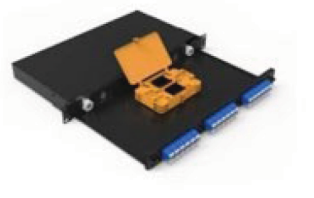
Flexible for fiber patch or Splice
Metal Slide rails
MAX 48F in 1U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Metal Slide rails
MAX 72F in 1U
D Type Splice Tray+109 Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Drawer type
MAX 48F in 1U
With cable gland for better cable fix
Customized LOGO is available



Flexible for fiber patch or Splice
Drawer type
MAX 72F in 1U
With cable gland for better cable fix
Customized LOGO is available



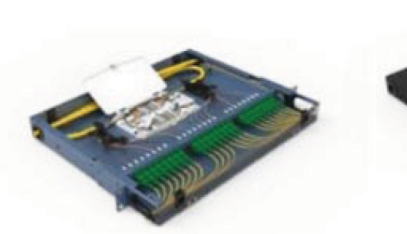
Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
C Type Splice Tray+Single Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available



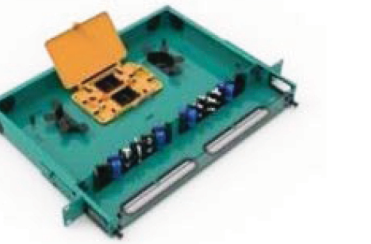
Flexible for fiber patch or Splice
Fixed and simple design
MAX 96F in 2U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Metal Slide rails
MAX 72F in 1U
G type Splice tray + LGX adaptor plate
Transparent Front Panel



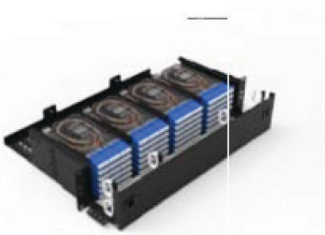
Flexible for fiber patch or Splice
Metal Slide rails
MAX 96F in 1U
H type Splice tray + LGX adaptor plate
Customized LOGO is available



Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
Angle plastic Panel which is better for fiber radius
Transparent Front Panel



MPO modules and splice panel
Fixed and simple design
MAX 144F in 1U
Plug-in ABS Cassette for easy deployment
Transparent Front Panel



MPO modules and splice panel
Fixed and simple design
MAX 288F in 2U
Plug-in ABS Cassette for easy deployment



MPO modules and splice panel
Fixed and simple design
MAX 576F in 4U
Plug-in ABS Cassette for easy deployment



Flexible for fiber patch or Splice
Fixed and simple design
MAX 96F in 2U
G type Splice tray + LGX adaptor plate
Transparent Front Panel



Flexible for fiber patch or Splice
Triple section stainless steel slide rail
MAX 144F in 2U
H type Splice tray + LGX adaptor plate
Transparent Front Panel



Flexible for fiber patch or Splice
Fixed and simple design
MAX 96F in 2U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Metal Slide rails
MAX 72F in 1U
G type Splice tray + LGX adaptor plate
Transparent Front Panel



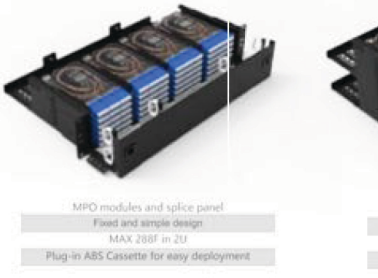
Flexible for fiber patch or Splice
Metal Slide rails
MAX 96F in 1U
H type Splice tray + LGX adaptor plate
Customized LOGO is available



Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
Angle plastic Panel which is better for fiber radius
Transparent Front Panel



MPO modules and splice panel
Fixed and simple design
MAX 144F in 1U
Plug-in ABS Cassette for easy deployment
Transparent Front Panel



MPO modules and splice panel
Fixed and simple design
MAX 288F in 2U
Plug-in ABS Cassette for easy deployment



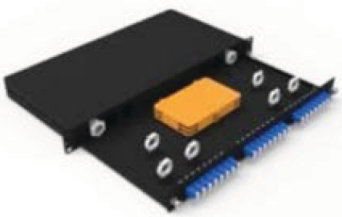
MPO modules and splice panel
Fixed and simple design
MAX 576F in 4U
Plug-in ABS Cassette for easy deployment



Flexible for fiber patch or Splice
Fixed and simple design
MAX 96F in 2U
G type Splice tray + LGX adaptor plate
Transparent Front Panel



Flexible for fiber patch or Splice
Triple section stainless steel slide rail
MAX 144F in 2U
H type Splice tray + LGX adaptor plate
Transparent Front Panel



Flexible for fiber patch or Splice
Drawer type
MAX 48F in 1U
C Type Splice Tray+LGX Adapter plate
With cable gland for better cable fix



Flexible for fiber patch or Splice
Drawer type
MAX 144F in 2U
H type Splice Tray+Unibody Adapter Plate
Customizable LOGO



Flexible for fiber patch or Splice
Drawer type
MAX 48F in 1U
C type Splice Tray+Unibody Adapter Plate
With cable gland for better cable fix



Flexible for fiber patch or Splice
Metal Slide rails
MAX 48F in 1U
C Type Splice Tray+175 Adapter plate



Flexible for fiber patch or Splice
Sliding and Tilt-down Drawer for Easy Operation
MAX 96F in 1U
H type Splice Tray+Unibody Adapter Plate
Customized LOGO is available



Flexible for fiber patch or Splice
Sliding and Tilt-down Drawer for Easy Operation
MAX 96F in 1U
H Type Splice Tray+92 Adapter plate
Customized LOGO is available



Standard 19"installation
Hybrid Fiber & Copper Application
Easy switch the copper & fiber with transfer kit
Plug-in cassettes for easy deployment
With adjustable cable holder for fixing better



Flexible for fiber patch or Splice
Metal Slide rails
MAX 48F in 1U
C type Splice Tray+Unibody Adapter Plate



Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
With cable gland for better cable fix
Customized LOGO is available



Flexible for fiber patch or Splice
Rotary drawer with flippable cover
MAX 48F in 1U
C Type Splice Tray+16S Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Fixed and simple design
MAX 288F in 4U
D type Splice Tray+Module Plate
Transparent Front Panel



High density Splicing application
Metal housing
Easy plug and play with one hand

Fiber Patch Cord



LC-LC Duplex Patch cord



SC-SC Duplex Patch cord



SC-ST Duplex Patch cord



SC-FC Duplex Patch cord



ST-ST Duplex Patch cord



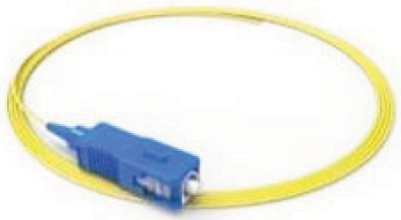
SC-LC Duplex Patch cord

Fiber Pigtails



FC Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Length can be customized



SC Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Length can be customized



ST Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Length can be customized



LC Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Length can be customized

شركة المستقبل السريع للاتصالات وتقنية المعلومات
Swift Future Telecommunications & Information Technology
Connect Today ... Build Tomorrow

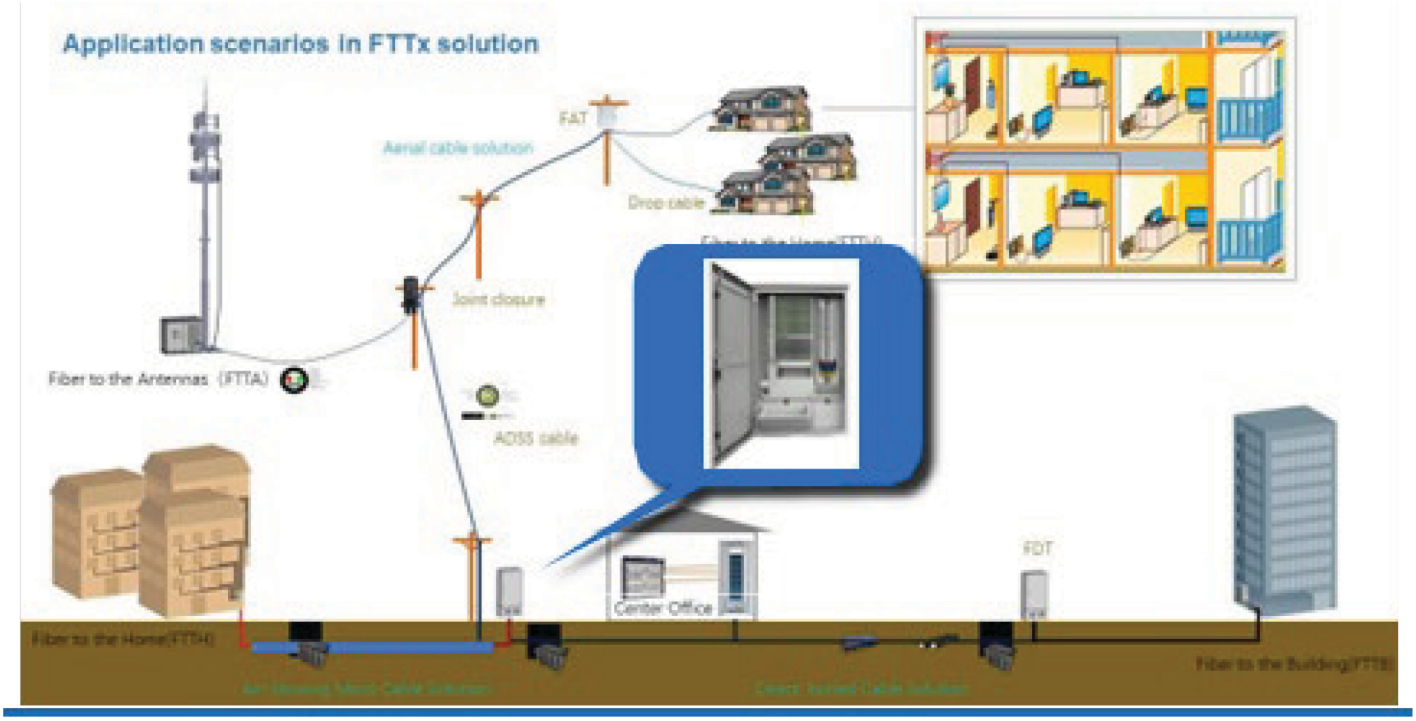
Outside Plant (OSP) Fiber Optic Network Components



Fiber Distribution Cabinet

TechLine Outdoor Fiber Distribution Cabinets are engineered to provide a dependable and efficient solution for the deployment of outdoor fiber optic networks. Designed for use in FTTH, FTTx, telecommunications, and broadband infrastructure, these cabinets offer secure fiber termination, splicing, distribution, and cross-connection within a durable, weatherproof enclosure.

Combining superior mechanical protection with advanced fiber management, the cabinet ensures easy installation, simplified maintenance, and long-term network reliability. Its modular design accommodates various fiber capacities and network configurations, making it suitable for both new deployments and future network expansion while maintaining the highest standards of performance, safety, and operational efficiency.



PART NUMBERS

Description	Part No.
Street Cabinet FDE,8x48 ODP, 48 Feeder ODP, 48 Splitter	SC-FDE384S48G1

APPLICATION

The outdoor Fiber Distribution Enclosure (FDE) cabinet is designed to handle fiber optic terminations and passive optical splitters in PON FTTx networks, but can also be used for Point to Point (P2P) applications or combinations of the both.

The FDE is used as a demarcation point between the feeder net-work and the distribution network and provides quick and easy in-cremental installation of distribution cable terminations and fiber optic splitters. This cabinet can handle both air-blown fiber in micro ducts, micro cables as well as drop cables and other fiber optic cables.

STANDARDS COMPLIANCE

- Weather/Ingress protection rating IP65 as per IEC60529
- Sizes manufactured in accordance with the standard IEC 60297
- Tested according to IEC 61300

Technical Details	
Capacity	Up to 384 distribution output
Material	GI steel thickness of 1.2 / 1.5mm
Finish	Light Grey RAL 7035, special epoxy polyester outdoor paint and zinc epoxy primer
Weight	105 Kg
Operating Temperature	-10 C~ +75 C
Load Rating	50 Kg



PART NUMBERS

Description	Part No.
Street Cabinet FDT,3x96 ODF, 48 Feeder ODF, 12 Splitter	SC-FDT39648S12

APPLICATION

The outdoor Patching on Demand Fiber Distribution Terminal (POD-FDT) cabinet for up to 288 output is designed to handle fiber optic terminations and passive optical splitters in PON FTTx net-works. It can also be used for Point to Point (P2P) applications or combinations of the both. The POD-FDT is used as a demarcation point between the feeder network and the distribution network and provides quick and easy incremental installation of distribution ca-ble terminations and fiber optic splitters. This cabinet can handle both air-blown fiber in micro ducts, micro cables as well as drop cables and other fiber optic cables.

STANDARDS COMPLIANCE

- Weather/Ingress protection rating IP65 as per IEC60529
- Sizes manufactured in accordance with the standard IEC 60297
- Tested according to IEC 61300

Technical Details	
Capacity	288 distribution output
Material	Galvanized steel thickness of 2mm
Finish	Light Grey RAL 7035, special epoxy polyester outdoor paint and zinc epoxy primer
Weight	120 Kg
Operating Temperature	-10 ℃~ +75 ℃
Load Rating	100 Kg





JOINT Closure

General Description

Joint closure is mainly used for protecting the fiber optic junction between two cables and reserve a section of fiber optic for maintenance in the box. The box has good leak-proof, anti-water and damp- proof feature and its power line is corrosion resistant. There are two types of the junction box, central and terminal one. The central type is used in the central part of the line to protect the two butted cables while the termina l type is used in the end of the line for branching in the cable line or protecting the connection of the fiber optic in the cable and the jumper.

Features

The closure casing is made of quality engineering plastics, and of good performance of anti- erosion against acid and alkali salt, anti- aging, as well as smooth appearance and reliable mechanical structure.

•The mechanical structure is reliable and has the performance of resisting wild environment and intensive climate changes and serious working environment. It can endure harsh conditions such as vibration, impact, tensile, cable distortion and strong temperature change The protection grade reaches above IP67 ;

•The closures are applicable to ribbon type optical cable and common optical cable.
•The closure is of small volume, big capacity and convenient maintenance.
•The elastic rubber seal rings inside the closure are of good sealing, sweat-proof performance, and can be opened after sealing and can be reused.

Dome Joint Closure





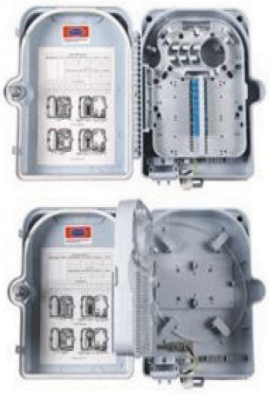


Fiber Optic Distribution Box

General Description
The equipment is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.

Features
•Total enclosed structure, be in nice shape.
•Material: PC+ABS, wet-proof, water-proof, dust-proof. anti-aging
•Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution etc. all in one.
•Cable, pigtails, patch cords are running through own path without disturbing each other, cassette type SC adapter installation, easy maintenance.
•Distribution panel can be flipped up, feeder cable can be placed in a cup-joint way, easy for maintenance and installation.
•Most of the types can be installed by the way of wall-mounted or poled-mounted, suitable for both indoor and outdoor uses.







24 Core Fiber Access Terminal Box



2 Core Fiber Outlet Box



FTTA Cable

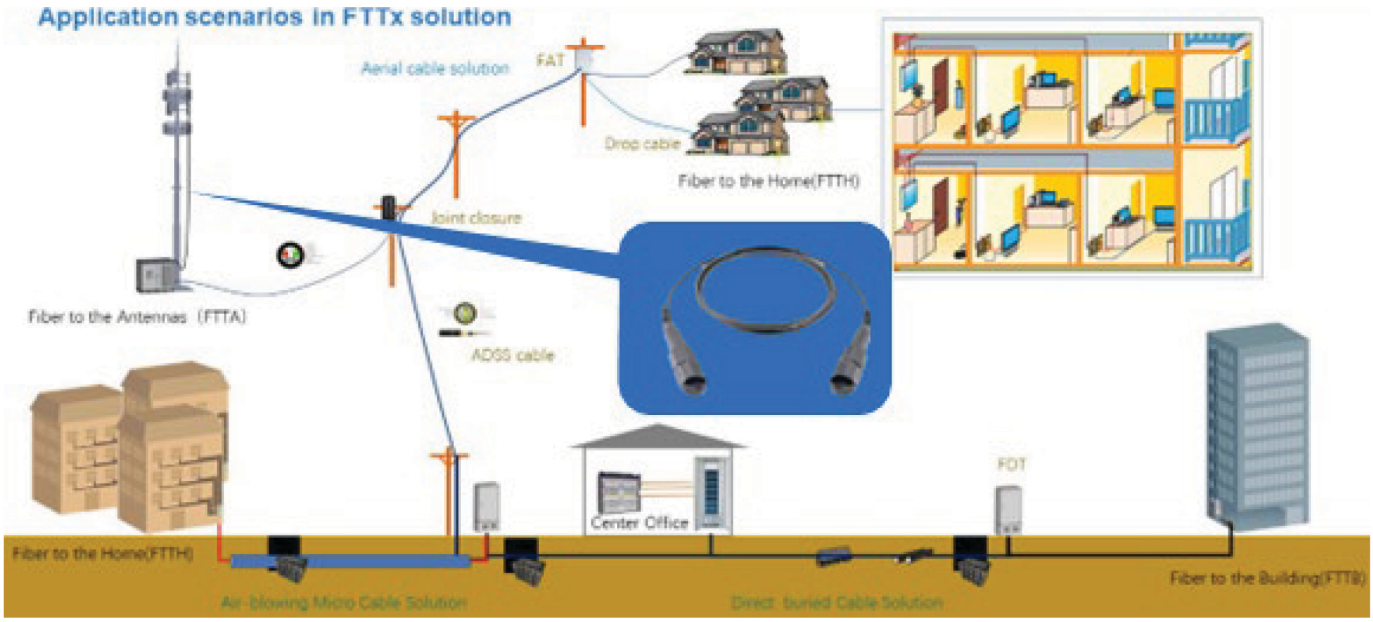
General Description
The cable between the BBU and the RRU is called the radio frequency pulling unit (RRU) cable, among which the optical cable providing signal transmission for the RRU is called the radio frequency pulling unit (RRU) optical cable, and the cable providing power for the RRU is called the power line. Radio frequency remote cable unit (RRU) has been widely
used in optical cable, commonly known as FTTA cable in the market. It is mainly used for horizontal and vertical wiring of wireless base stations.
Features

•Reduce construction costs. Using optical fiber transmission, the feeder loss can be reduced, and the power requirement of power amplifier can be reduced, thus reducing the cost of base station equipment.

•Reduce operating costs. By rational utilization of existing base station resources and centralized placement of base station base band, the lease cost of base station can be reduced.

•Realize fast network construction. The separate placement of baseband and radio frequency makes the engineering construction have a strong flexibility and speeds up the construction progress

•Easy to optimize and adjust the network.









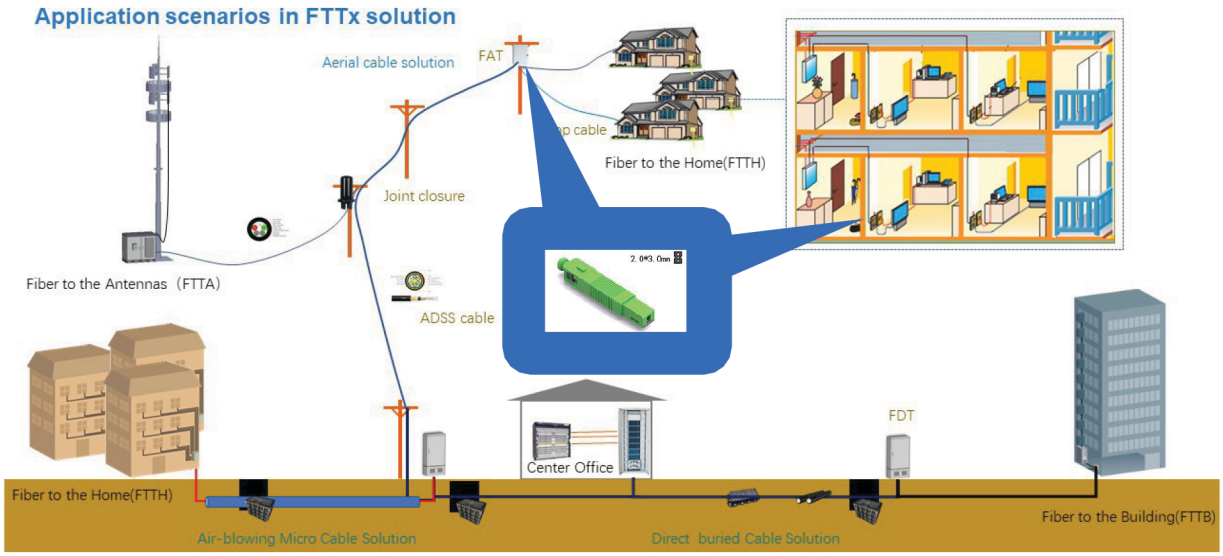
Fast Connecter

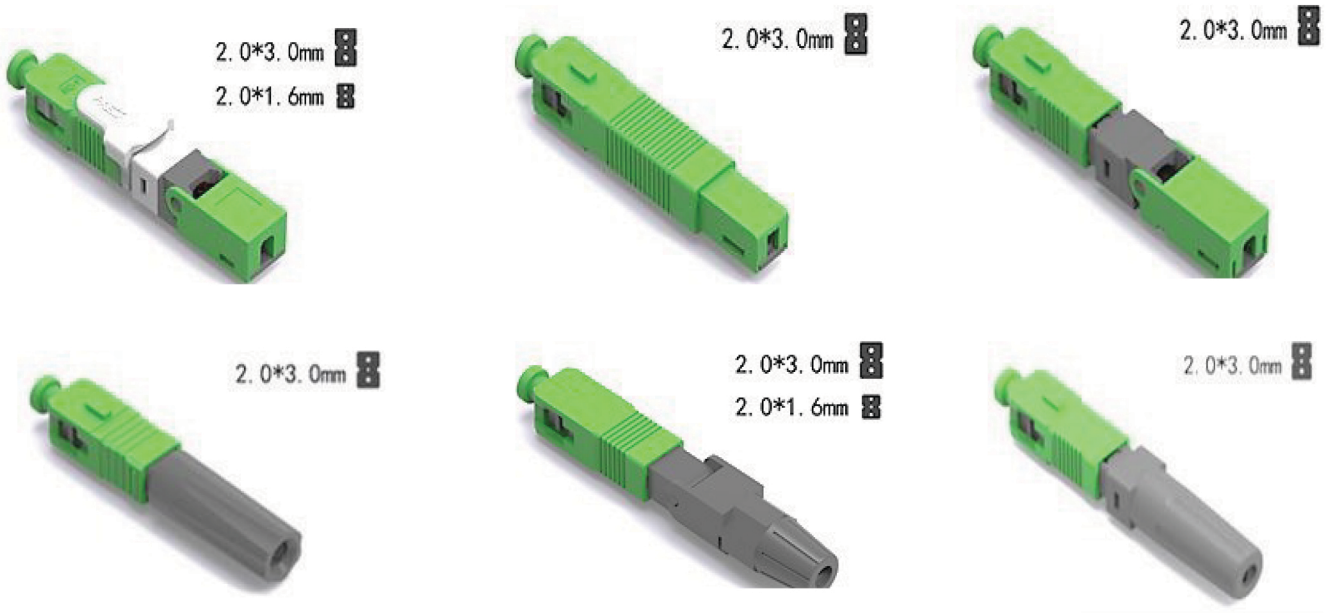
General Description

Embed fiber, factory grinding, built-in fiber refractive index matching liquid, rich specifications, suitable for a variety of different scene of the fiber terminal, to meet a variety of assembly operation habits, APC and UPC optional, It is suitable for fast terminal of butterfly fiber optic cable into the home

Features

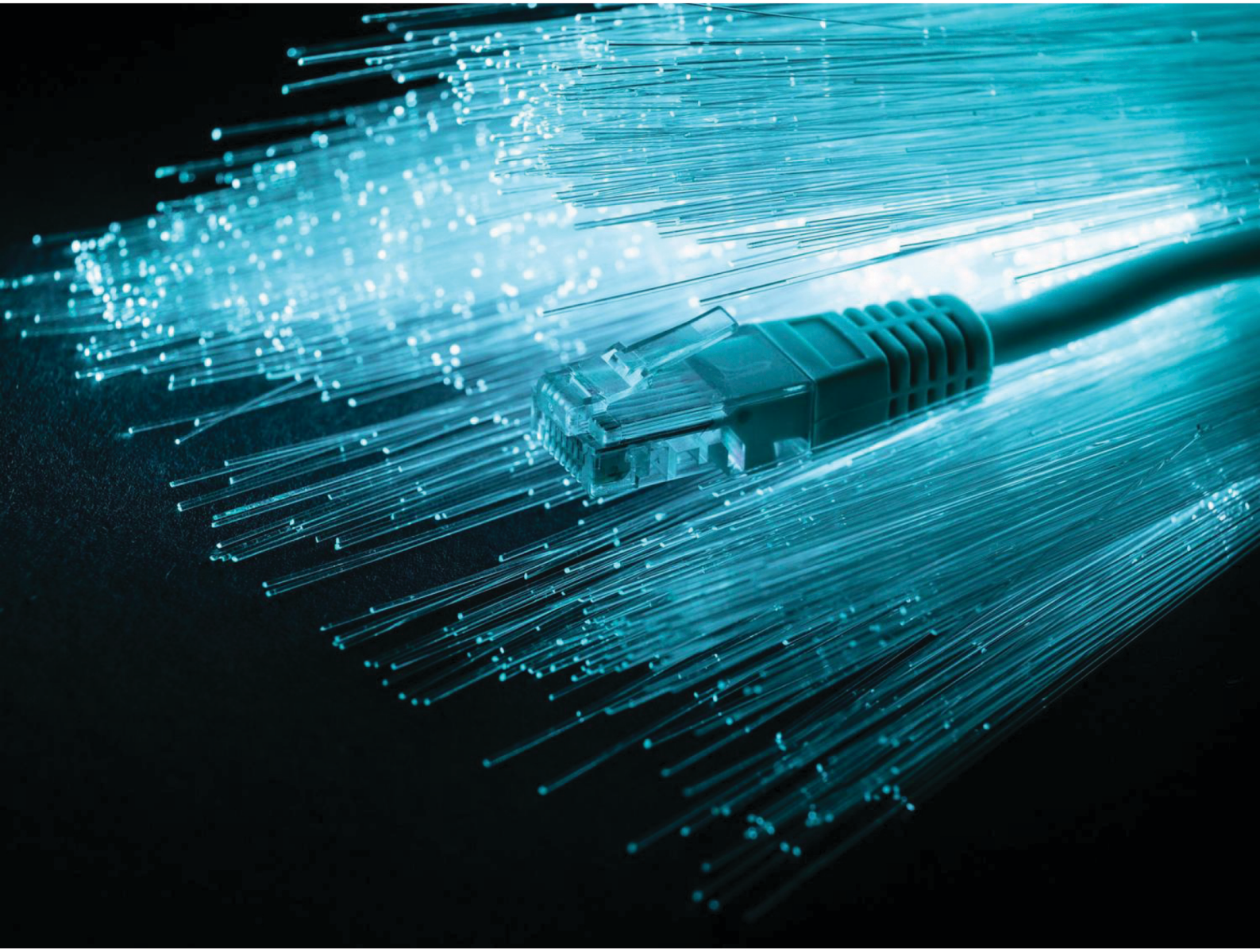
Insertion loss AVG≤0.3dB,MAX≤0.5dB, return loss AVG≥55dB,MIN≥50dB, working temperature 40 ~ +85℃, tensile strength ≥30N, repeated assembly ≥10 times, repeated plug and pull ≥500 times





شركة المستقبل السريع للاتصالات وتقنية المعلومات
Swift Future Telecommunications & Information Technology
Connect Today ... Build Tomorrow

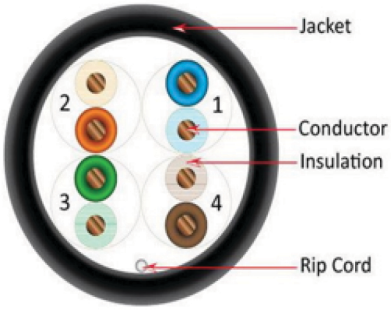
Infrastructure Cable



Category Cable

- High Quality CAT 5e U/UTP

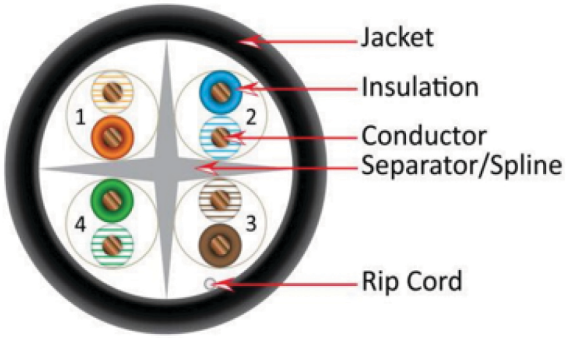
Description:
TECHLINE Cat-5e UTP Copper Solid cable transmits data over local area Networks (LANs) . These cables exceed performance requirements specified by TIA/ EI A-568C.2 .
As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time.



Application:
These cables are made using 24 gauge (AWG) copper wires with about three twists per inch enabling them to transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 100 MHz They are suitable for 10BASE T, 100BASETX . They support a higher signal -to-noise ratio, providing better reliability for current applications and higher data rates for future applications.

- High Quality CAT 6 U/UTP

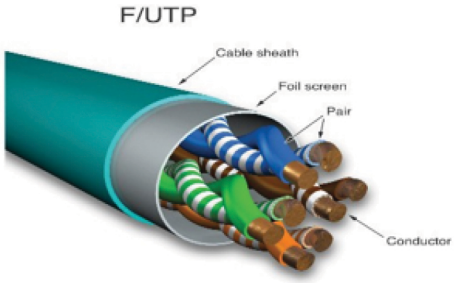
Description:
TECHLINE Cat6 UTP Copper Solid cable transmits data over local area Networks (LANs). These cables exceed performance requirements.



Application:
As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time. They support a higher signal -to-noise ratio, providing better reliability for current applications and higher data rates for future applications.

- High Quality CAT 6 F/UTP

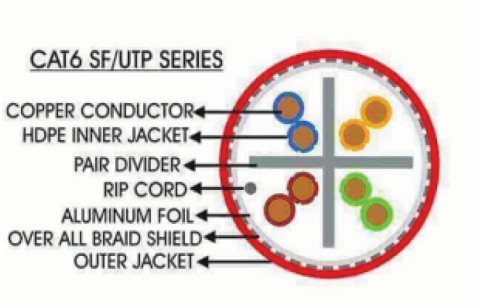
Description:
TECHLINE Cat6 F/UTP Copper Solid cable transmits data over local area Networks (LANs) . These cables exceed performance requirements specified by the TIA/EIA-568C.2



Application:
Cat6 F/UTP cables reduce crosstalk and system noise. The superior insulation around the 23 AWG copper wires attribute to the increased performance. They can transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T/1000BASE-TX (Gigabit Ethernet). Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250 MHz

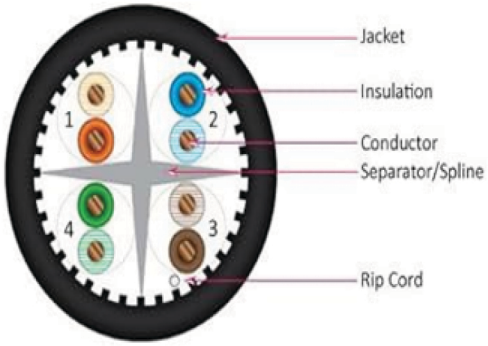
- High Quality CAT 6 SF/UTP

Description:
TECHLINE Cat 6 SFTP Copper Solid cable transmits data over local area Networks (LANs). These cables exceed performance requirements specified by the TIA/EIA-568C.2.



Application:
C4T6 SFTP Cable supported Gigabit Ethernet (1000 Base-T) standard.
Operates at a bandwidth up to 250 Mhz.
Tinned copper screening gives protection against EMI and avoid signal loss and high ACR values - providing low BER (Bit-Erase-rater).

- High Quality CAT 6A U/UTP



Description:
TECHLINE Cat6A UTP solid cables are the best twisted-pair cables in the market for transmitting data over local area Networks (LANs). These cables exceed performance requirements specified by the TI A/ EI A-568B.2 / TINEIA-568C.2

Application:
Cat 6A cable System complies with all of the performance requirements for current and proposed applications such as 10 Gigabit Ethernet, Gigabit Ethernet (l000BASE-Tx), 10/ lO0BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analog and and digital video and analog and digital voice (Vol P).

why Tecline use this design:

The toothed jacket is used to:
•Protect signal quality
•Maintain cable structure
•Improve flexibility
•Make installation easier
In short: **It's designed to meet Cat 6A high-performance requirements (10G), not just for appearance.**

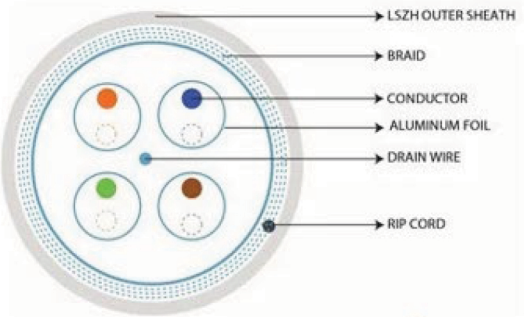
Feature	Smooth Jacket	Toothed (Corrugated) Jacket
Cable Geometry Stability	Medium	High (better pair spacing control)
Alien Crosstalk (AXT)	Higher risk in bundles	Lower (improved spacing & isolation)
10G Performance Margin	Acceptable	Better stability at 100m
Flexibility	Medium (stiffer due to thick wall)	Higher (air gaps improve bending)
Installation (Pulling)	Harder in conduits	Easier (reduced friction & stress)
Crush Resistance	Good	Better
Heat Dissipation	Standard	Improved
Outer Diameter Control	Uniform	Slightly larger but optimized
Cost	Lower	Slightly higher

- High Quality CAT 6A S/FTP



Techline Category 6A (Augmented Category) S/FTP, ETL verified and has been designed for high network performance of up to 550 MHz. It can be used to design 100 meter channel links as well as shorter channel links with cables and patch cord lengths as short as required, offering maximum flexibility and minimizing excess cable and patch cord lengths which offer overall cost savings.

Techline Category 6A S/FTP cabling solution provides considerable margin above all electrical transmission performance requirements specified in ANSI/TIA-568-C.2, ISO/IEC 11801 and IEC-61156-5 and supports full duplex protocols delivering up to 10Gbps performance at frequency levels up to 550 Mhz. It provides improved bandwidth, data throughput and network efficiency and supports PoE Power of Ethernet standard (POE 802.3af) allowing data and power connection for POE equipments.



The cable jacket construction has tighter twists and its 4-pair construction with each individual pair surrounded with aluminum foil tape and braid screen reduces alien crosstalk (AXT) coupling between adjacent cables and provides extra margin of performance required for high bandwidth applications.

The Category 6A S/FTP Cable collectively with other Infinique's Category 6A U/FTP solution is the right solution for voice, data and video transmission needs. The Category 6A U/FTP Cable is offered in LSOH jackets in 1640 ft (500 m) reels to accommodate various installation requirements.

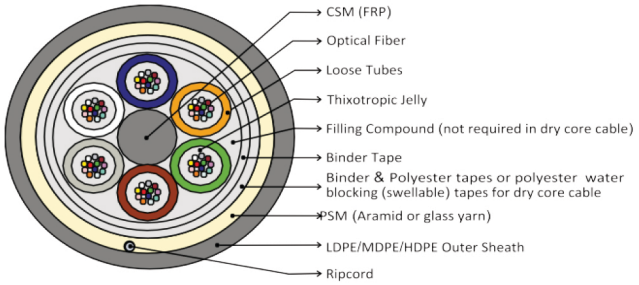


Fiber Optic Cable

Duct (Non-Metallic) Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Outer Sheath Thickness mm
4	4	1	1.5 ± 0.2
8	8	1	1.5 ± 0.2
12	12	1	1.5 ± 0.2
24	12	2	1.5 ± 0.2
36	12	3	1.5 ± 0.2
48	12	4	1.5 ± 0.2
96	12	8	1.5 ± 0.2
144	12/24	12/6	1.5 ± 0.2
192	12/24	16/8	1.5 ± 0.2
288	12/24	24/12	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Filling Compound:	Loose Tube is filled with Thixotropic Jelly, the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable.
Outer Sheath:	HDPE.
Application:	Inter Office, Data, Voice & video transmission, Security & control systems having light weight & flexible characteristics for inside duct installation.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC - YEAR - XXXXX - XX FIBER XX DUCT OFC - XXXX	
SM DUCT OFC	: Single Mode Duct Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

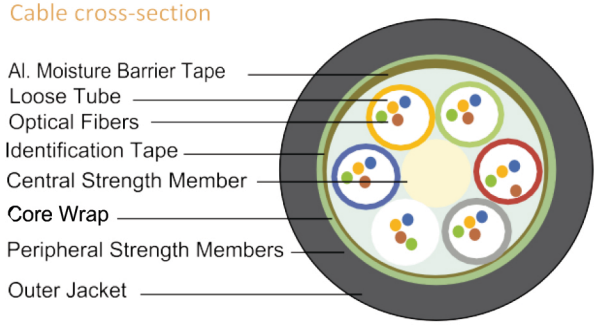
The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Duct Type (Metallic) Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Outer Sheath Thickness mm
4	4	1	1.5 ± 0.2
8	8	1	1.5 ± 0.2
12	12	1	1.5 ± 0.2
24	12	2	1.5 ± 0.2
36	12	3	1.5 ± 0.2
48	12	4	1.5 ± 0.2
96	12	8	1.5 ± 0.2
144	12/24	12/6	1.5 ± 0.2
192	12/24	16/8	1.5 ± 0.2
288	12/24	24/12	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Moisture barrier:	Aluminum Moisture Barrier Tape.
Flooding Compound:	Interstices all filled with gel to protect ingress of water (Not required in dry cable).
Filling Compound:	Loose Tube is filled with Thixotropic Jelly, the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable.
Outer Sheath:	HDPE.
Application:	Inter Office, Data, Voice & video transmission, Security & control systems having light weight & flexible characteristics for inside duct installation.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC - YEAR - XXXXX - XX FIBER XX DUCT (Metallic) OFC - XXXX	
SM/MM DUCT Metallic OFC	: Multi Mode or Single Mode Duct Metallic Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

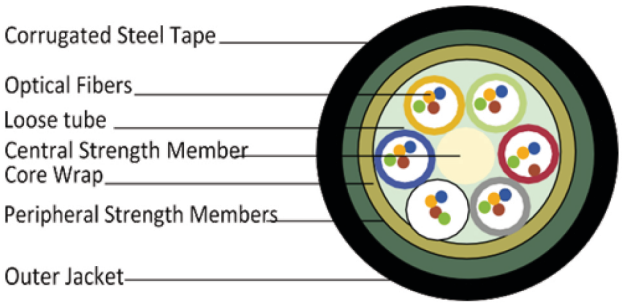
The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Steel Tape Armored Type (Single Sheath) Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Outer Sheath Thickness mm
4	4	1	1.5 ± 0.2
8	8	1	1.5 ± 0.2
12	12	1	1.5 ± 0.2
24	12	2	1.5 ± 0.2
36	12	3	1.5 ± 0.2
48	12	4	1.5 ± 0.2
96	12	8	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Flooding Compound:	Jelly filled Construction with core wrap or water swell able Tape to stop ingress of water.
Armoring:	Corrugated Steel Tapes helps to give cable ruggedness and rodent protection with direct buried Installation.
Filling Compound:	Loose Tube is filled with Thixotropic Jelly, the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable.
Outer Sheath:	HDPE.
Application:	Data, Voice & Video transmission with rodent protection and direct buried installation.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC - YEAR - XXXXX - XX FIBER XX STASS OFC - XXXX	
STASS OFC	: Multi Mode or Single Mode sheath steel tape armored Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

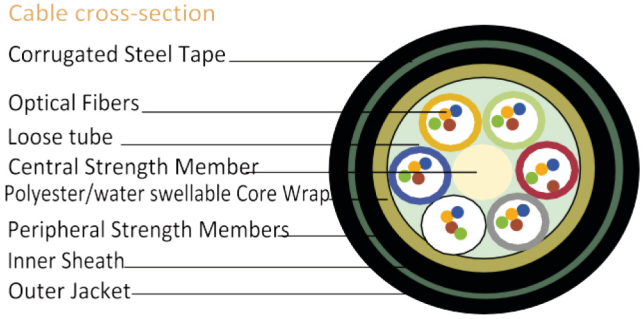
The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Steel Tape Armored Type (Dual Sheath) Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Inner Sheath Thickness mm	Cable Outer Sheath Thickness mm
4	4	1	1 ± 0.2	1.5 ± 0.2
8	8	1	1 ± 0.2	1.5 ± 0.2
12	12	1	1 ± 0.2	1.5 ± 0.2
24	12	2	1 ± 0.2	1.5 ± 0.2
36	12	3	1 ± 0.2	1.5 ± 0.2
48	12	4	1 ± 0.2	1.5 ± 0.2
96	12	8	1 ± 0.2	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Flooding Compound:	Jelly filled Construction with core wrap or water swell able Tape to stop ingress of water.
Armoring:	Corrugated Steel Tapes helps to give cable ruggedness and rodent protection with direct buried Installation.
Filling Compound:	Loose Tube is filled with Thixotropic Jelly, (Not required in dry cable) the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable.
Inner Sheath:	LDPE/MDPE.
Outer Sheath:	HDPE.
Application:	Data, Voice & Video transmission with rodent protection and direct buried installation.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC - YEAR - XXXXX - XX FIBER XX STADS OFC - XXXX	
STADS OFC	: Multi Mode or Single Mode sheath steel tape armored Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

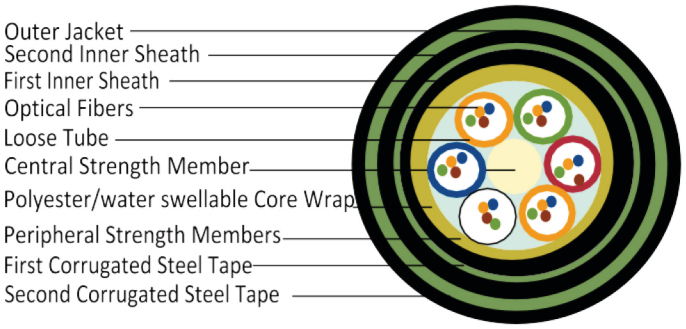
The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Steel Tape Double Armored Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Inner Sheath Thickness mm	Cable Outer Sheath Thickness mm
4	4	1	1 ± 0.2	1.5 ± 0.2
8	8	1	1 ± 0.2	1.5 ± 0.2
12	12	1	1 ± 0.2	1.5 ± 0.2
24	12	2	1 ± 0.2	1.5 ± 0.2
36	12	3	1 ± 0.2	1.5 ± 0.2
48	12	4	1 ± 0.2	1.5 ± 0.2
96	12	8	1 ± 0.2	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Flooding Compound:	Jelly Filled construction with core wrap or water swellable tape to stop ingress of water.
Armoring:	Two Corrugated Steel Tapes helps to give cable more ruggedness and extra rodent protection.
Filling Compound:	Loose Tube is filled with Thixotropic Jelly, the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable.
Inner Sheath:	LDPE / MDPE
Outer Sheath:	HDPE.
Application:	Data, Video & voice transmission with extra rodent protection and strength.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC - YEAR - XXXXX - XXX FIBER XX ST DOUBLE ARMORED OFC - XXXX	
ST DOUBLE ARMORED OFC	: Multi Mode or Single Steel tape Double armored Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

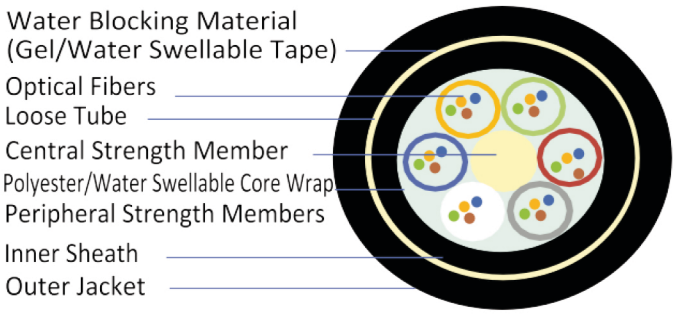
The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Direct Buried (Non Metallic) Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Outer Sheath Thickness mm
4	4	1	1.5 ± 0.2
8	8	1	1.5 ± 0.2
12	12	1	1.5 ± 0.2
24	12	2	1.5 ± 0.2
36	12	3	1.5 ± 0.2
48	12	4	1.5 ± 0.2
96	12	8	1.5 ± 0.2
144	12/24	12/6	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Flooding Compound:	Jelly filled Construction with wrap (Not required in dry cable) or water swell able blocking Tape to stop ingress of water.
Filling Compound:	Loose Tube is filled with Thixotropic Jelly, the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable.
Inner Sheath:	LDPE/MDPE.
Outer Sheath:	HDPE.
Application:	Suitable for Junction communication system, Data, Voice transmission & Subscriber Network system for direct buried Installation.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC - YEAR - XXXXX - XX FIBER XX DB (Non Metallic) OFC - XXXX	
DB OFC	: Multi Mode or Single Mode Direct buried Non metallic Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

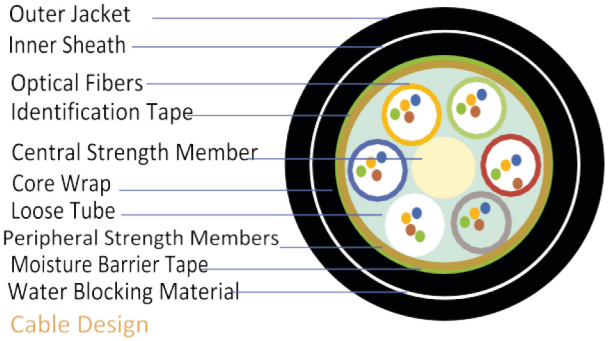
The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Direct Buried (Metallic) Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Outer Sheath Thickness mm
4	4	1	1.5 ± 0.2
8	8	1	1.5 ± 0.2
12	12	1	1.5 ± 0.2
24	12	2	1.5 ± 0.2
36	12	3	1.5 ± 0.2
48	12	4	1.5 ± 0.2
96	12	8	1.5 ± 0.2
144	12/24	12/6	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Flooding Compound:	Jelly filled Construction with wrap or water swell able blocking Tape to stop ingress of water.
Moisture Barrier:	Aluminum moisture barrier for extra added protection against ingress of water.
Filling Compound:	Loose Tube is filled with Thixotropic Jelly, (Not required in dry cable) the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable.
Inner Sheath:	LDPE/MDPE.
Outer Sheath:	HDPE.
Application:	Suitable for Junction communication system, Data, Voice transmission & Subscriber Network system for direct buried Installation.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC - YEAR - XXXXX - XX FIBER XX DB (Metallic) OFC - XXXX	
DB OFC	: Multi Mode or Single Mode Direct buried metallic Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

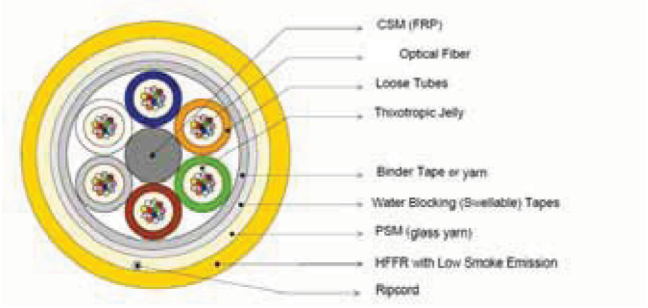
The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Indoor (Non-Metallic) Optical Fiber Cable

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Max Fiber Per tube	No. of Loose Tubes	Cable Outer Sheath Thickness mm
4	4	1	1.5 ± 0.2
8	8	1	1.5 ± 0.2
12	12	1	1.5 ± 0.2
24	12	2	1.5 ± 0.2
36	12	3	1.5 ± 0.2
48	12	4	1.5 ± 0.2
96	12	8	1.5 ± 0.2
144	12/24	12/6	1.5 ± 0.2
192	12/24	16/8	1.5 ± 0.2
288	12/24	24/12	1.5 ± 0.2

Cable Design

Fiber:	The Cable can be based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655, or Combination specifications (Hybrid Cable).
CSM:	Fiber Reinforced Plastic is used as Central Strength Member.
Loose Tube:	Polybutylene Terephthalate (PBT).
Ingress Protection:	Dry Core design with the help of Water Swellable Tapes & Yarns.
Filling Compound:	Loose Tube is filled with Thixotropic Jelly Filled, the filling compound gives protection to the fiber in case of strains etc.
Stranding:	The Loose Buffer Tubes are stranded around the Central Strength Member through SZ Stranding which is a reverse lay method i.e. the direction of stranding reverses after a predetermined no. of revolutions, at the reverse points, the elements are parallel to the axis of cable, a binding yarn is wound around the elements to retain and keep them in proper position.
Peripheral Strength:	Glass Yarns will be used to give extra strength to the cable (if required).
Outer Sheath:	HFFR / LSZH.

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

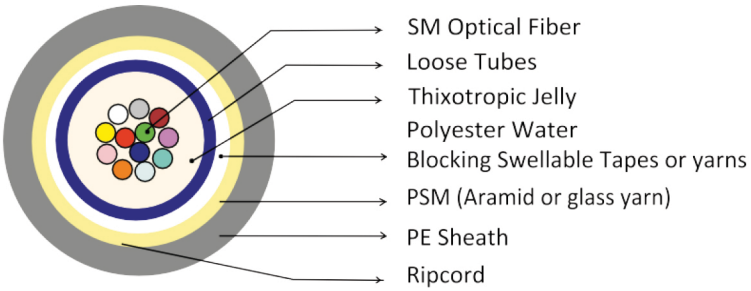
ATC – YEAR – XXXXX – XXX FIBER XX INDOOR OFC – XXXX	
SM INDOOR OFC	: Single Mode Indoor Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

Cable Construction

Cable cross-section



Cable structure and parameter

No. of Fibers	Cable Outer Sheath Thickness mm
4	1.5 ± 0.2
8	1.5 ± 0.2
12	1.5 ± 0.2
24	1.5 ± 0.2

Cable Design

Fiber:	The Cable is based on Multimode OM1,OM2 OM3 or Single Mode Fiber as per ITU-T G.652.D, G657, G655 specifications, (Hybrid Cable)
Loose Tube:	Polybutylene Terephthalate (PBT)
Filling Compound:	Loose Tube is filled with Thixotropic Jelly Filled in each tube, the filling compound gives protection to the fiber in case of strains etc
Peripheral Strength:	Glass Yarns or aramid yarns will be used to give extra strength to the cable
Outer Sheath:	HDPE/MDPE

Further details of the fiber material and mechanical/environmental characteristics are also available in the Catalogue.

Fiber Color Code is as per given specification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

If 24 Fiber tube required, ring marked fibers will be used.

Color Code for Loose Tube (LT) is as per given specification

No.	1
Color	Any Standard color tube

Any other specific color coding can also be used as per customer requirement.

Printing / Marking

Sheath Marking as below or as required.

ATC – YEAR – XXXXX – XXX FIBER XX MONO-TUBE OFC – XXXX	
Mono Tube OFC	: Multimode or Single Mode MONO TUBE Type Optical Fiber Cable
XXXX	: Length of Marking (* The Marking is Printed every 1 meter)
XXX	: Number of Fibers
XXXXX	: Customer Name

The color of marking is **White / Yellow**.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

شركة المستقبل السريع للاتصالات وتقنية المعلومات

Swift Future Telecommunications & Information Technology

Connect Today ... Build Tomorrow



ليبيا - طرابلس - حي الأندلس
Libya - Tripoli - Hay Al-Andalus

+218 91 493 1738

info@mqstel.ly

www.mqstel.ly