



FIBER OPTIC SOLUTIONS
CABLE & ACCESSORIES

DROPCABLE

G657A1

Features

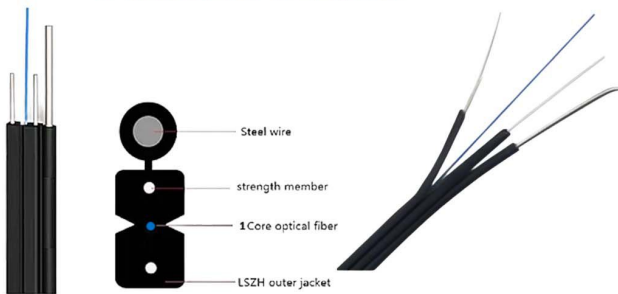
- G657A 1/2
 - Massanger steel wire 1.0mm
 - Steel wire streng member 0.45mm
 - Cable jacket LSZH
 - Two parallel FRP or metal reinforcements provide good compression resistance and protect the fiber
 - low construction cost
 - Suitable for mechanical splicing technology
- The bend insensitive fiber which can meet requirement of ITU-T G.657 High-carbon steel wire should be used for Self-supporting strengthen member.



Application

For indoor wiring, end users directly use fiber cables, Used for building optical fiber cable, It is used for indoor wiring in FTTH.

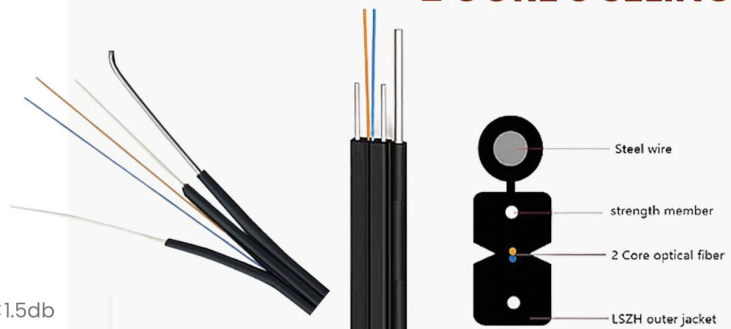
1 CORE 3 SELING



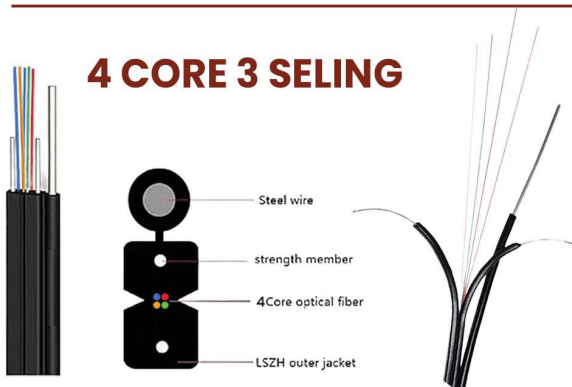
- Part number: IF-DCSM-1C-3S
- Fiber core: 1 Core
- Fiber style: G657A1
- Steel wire: 1.0mm x 0.45mm
- Outer sheath: LSZH
- Installation Temperatur range (°C): -20+60
- Operation and transport temperature (°C): -40+70
- Cable size (Height*width): 2.0mm x 5.0mm
- Cable weight: 21
- Condition: 1310nm 1550nm
- Attenuation: $\leq 0.36/0.23$ dB/km
- Radius attenuation bending: 1550nm < 0.75db; 1625nm < 1.5db

- Part number: IF-DCSM-2C-3S
- Fiber core: 2 Core
- Fiber style: G657A1
- Steel wire: 1.0mm x 0.45mm
- Outer sheath: LSZH
- Installation Temperatur range (°C): -20+60
- Operation and transport temperature (°C): -40+70
- Cable size (Height*width): 2.0mm x 5.0mm
- Cable weight: 21
- Condition: 1310nm 1550nm
- Attenuation: $\leq 0.36/0.23$ dB/km
- Radius attenuation bending: 1550nm < 0.75db; 1625nm < 1.5db

2 CORE 3 SELING



4 CORE 3 SELING



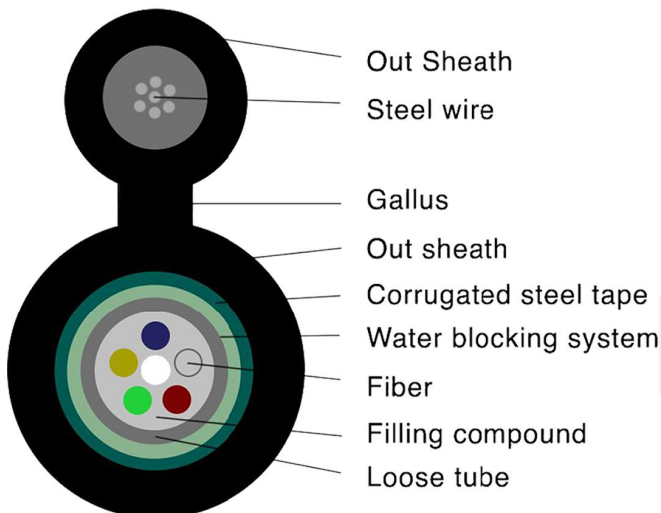
- Part number: IF-DCSM-4C-3S
- Fiber core: 4 Core
- Fiber style: G657A1
- Steel wire: 1.0mm x 0.45mm
- Outer sheath: LSZH
- Installation Temperatur range (°C): -20+60
- Operation and transport temperature (°C): -40+70
- Cable size (Height*width): 2.0mm x 5.0mm
- Cable weight: 21
- Condition: 1310nm 1550nm
- Attenuation: $\leq 0.36/0.23$ dB/km
- Radius attenuation bending: 1550nm < 0.75db; 1625nm < 1.5db

Aerial Cable Fig8 with Armored GYXTC8S

Features

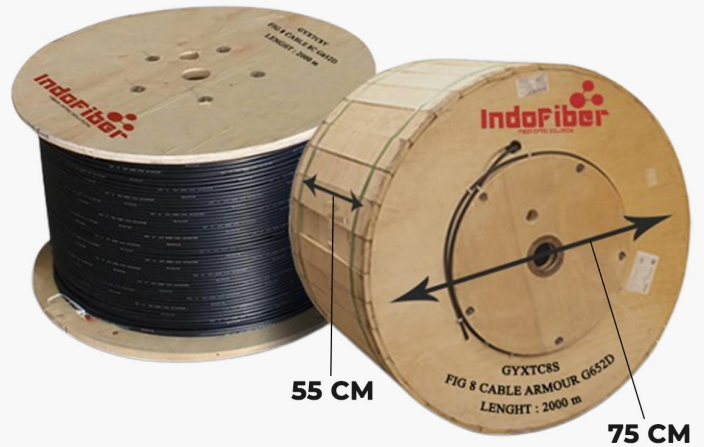
Stainless steel or galvanized steel self-supporting
Low dispersion and attenuation
Excellent tensile strength for such small diameter
Light weight

CORE	PART NUMBER
4 Core	IF-MA-F8-4C
6 Core	IF-MA-F8-6C
8 Core	IF-MA-F8-8C
12 Core	IF-MA-F8-12C



Temperatur Range

Working tempertur -5~+50
Storing/transport temperatur -50~+70
nstallation temperatur -30~+70



Application

Adopted to Outdoor distribution Suitable for aerial, duct and buried method Long distance and local area network communication Can be installed conveniently and operated simply

Product Description

The structure of the figure 8 cable is place the 250µm optical fibers into a loose tube made of high modulus material. The tubes are filled with a waterproof compound. The loose tube cable core is longitudinally wrapped with a PSP, and the phosphating strand is integrated into a figure-8 polyethylene sheath.

Optical performance parameter

Dimensions of wire strand 0.4*7-φ1mm Galvanized wire
Loose tube size (mm) 2.0±0.1
Outer sheath material HDPE
Thickness of outer sheath (mm) 1.5mm±0.1
Steel strand outside diameter 3mm±0.1
Cable outside diameter (mm) 6.5mm±0.1

Packages

Packing Material : Wooden Drum

Packing Lenght : 2 KM/DRUM or Customization



Aerial Cable

Fig 8

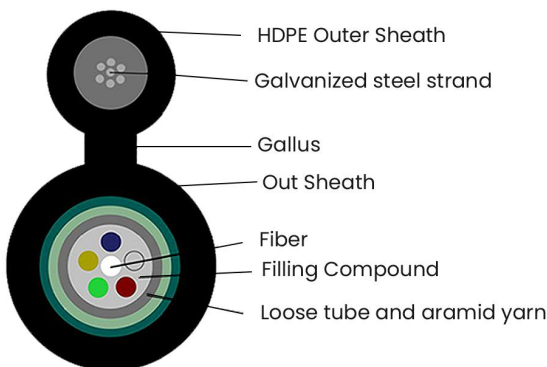
GYXTC8Y

Application

Adopted to Outdoor distribution Suitable for aerial, duct and Long distance and local area network communication

Can be installed conveniently and operated simply

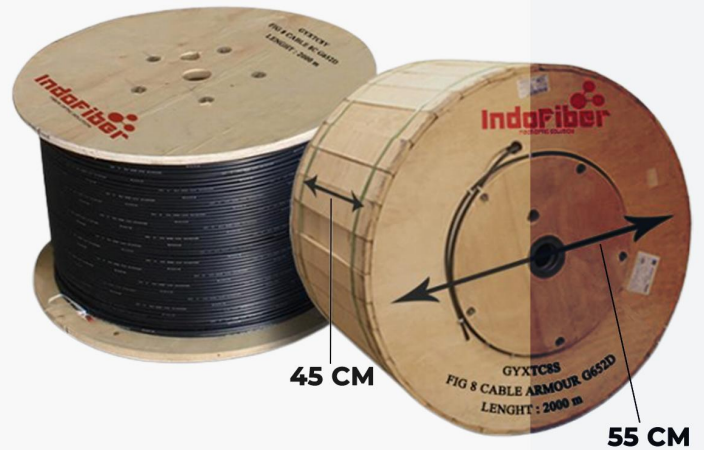
CORE	PART NUMBER
4 Core	IF-UF8-4C
6 Core	IF-UF8-6C
8 Core	IF-UF8-8C
12 Core	IF-UF8-12C



Packages

Packing Material : Wooden Drum

Packing Length : 2 KM/DRUM or Customization



Features

- Full section water blocking structure ensures good water and moisture resistance
- Loose sleeve filled with special ointment for critical fiber protection
- 8-shaped self-supporting structure with high tensile strength, easy to lay overhead, low installation cost
- Longitudinal cladding steel strip gives better cable resistance to lateral pressure
- Polyethylene sheath makes the cable have good UV resistance
- Product life more than 30 years

Product Description

The structure of the figure 8 cable is place the 250µm optical fibers into a loose tube made of a high modulus material . The tubes are filled with a waterproof compound. The loose tube cable core is longitudinally wrapped with a PSP, and the phosphating strand is integrated into a figure-8 HDPE sheath.

Structure Parameter

- Dimensions of wire strand 0.4*7-φ1mm
- Loose tube color White
- Loose tube size (mm) 2.0±0.1mm
- Outer sheath material HDPE
- Steel strand outside diameter 1.0mm±0.2
- Thickness outer sheath (mm) 3mm+0.2
- Cable outside diameter (mm) 4.0mm+0.2

Temperatur Range

- Working temperatur -40°C~+60°C
- Storage/transport temperatur -50°C~+70°C
- Installation temperatur -20°C~+60°C

Duct & Aerial Cable with Armored GYXTW

Application

The fiber, 250um, are positioned in a high modulus plastic.
The tube are filled with a water

Product Description

Part number	IF-DA-12C
Model	GYXTW-12B1.3
Cladding Diameter	124.8±0.7Um
Cladding non Circularity	≤0.7%
Cladding Coating Concentricity Error	≤12.0Um
Cable Cut off Wavelength	λ _{cc} ≤1260nm
Fiber Type	G652
Outer sheath	HDPE
Strength member Diameter	0.8mm
Outer Jacket	7.5mm±0.3mm
Cable weight	240kg
Attenuation	1310nm ≤ 0.36dB/km 1550nm ≤0.22 dB/km



Features

High strength loose tube that is hydrolysis resistant
Specially tube filling compound ensure a critical protection of fiber
Crush resistance and flexibility
Two parallel steel wires ensure tensile strength ; 7.5 mm Small diameter, light weight



ODF / OTB



Specification

Part Number:	IF-RM-12/24SM/MM-SC IF-RM-12/24SM/MM-LC IF-RM-12/24SM/MM-ST IF-RM-12/24SM/MM-FC
Fiber Quantity :	12 / 24
Dimension(mm) :	482 x 320 x 44
Painting :	Black
Net Weight(kg) :	7kg

Description

It is made of cold-roll steel box, with plastic splice tray inside, suitable for pigtail, ribbon and bunch cable distribution. And it has metal sliding fittings with self-locking functions prevent the drawer from falling when moved.

Features

Standard size, light weight and reasonable
Slide out drawer for easy cable
FC, SC, ST, LC adapter patch panel for option
Front access panel design for easy operation
Suitable for 19" or 23" standard optic distribution cabinets
With metal front cover
2pcs splice trays (each 12 fibers)
3pcs adapter plates (each 8pcs adapter ports)
Max. capacity 24 fibers
4 fiber cable entry ports at rear side
White or black color

Application

Telecommunications
Fiber to the home (FTTH)
LAN/WAN
CATV

PATCH CORD

Description	Part Number SM (9/125µm)	Part Number OM1 (62.5/125µm)	Part Number OM2 (50/125µm)	Part Number OM3 (50/125µm)	Part Number OM4 (50/125µm)
ST – LC	IF-SM1-ST-LC-001	IF-MM1-ST-LC-001	IF-MM2-ST-LC-001	IF-MM3-ST-LC-001	IF-MM4-ST-LC-001
ST – ST	IF-SM1-ST-ST-001	IF-MM1-ST-ST-001	IF-MM2-ST-ST-001	IF-MM3-ST-ST-001	IF-MM4-ST-ST-001
ST – SC	IF-SM1-ST-SC-001	IF-MM1-ST-SC-001	IF-MM2-ST-SC-001	IF-MM3-ST-SC-001	IF-MM4-ST-SC-001
ST – FC	IF-SM1-ST-FC-001	IF-MM1-ST-FC-001	IF-MM2-ST-FC-001	IF-MM3-ST-FC-001	IF-MM4-ST-FC-001
LC – LC	IF-SM1-LC-LC-001	IF-MM1-LC-LC-001	IF-MM2-LC-LC-001	IF-MM3-LC-LC-001	IF-MM4-LC-LC-001
FC – LC	IF-SM1-FC-LC-001	IF-MM1-FC-LC-001	IF-MM2-FC-LC-001	IF-MM3-FC-LC-001	IF-MM4-FC-LC-001
FC – FC	IF-SM1-FC-FC-001	IF-MM1-FC-FC-001	IF-MM2-FC-FC-001	IF-MM3-FC-FC-001	IF-MM4-FC-FC-001
SC – LC	IF-SM1-SC-LC-001	IF-MM1-SC-LC-001	IF-MM2-SC-LC-001	IF-MM3-SC-LC-001	IF-MM4-SC-LC-001
SC – FC	IF-SM1-SC-FC-001	IF-MM1-SC-FC-001	IF-MM2-SC-FC-001	IF-MM3-SC-FC-001	IF-MM4-SC-FC-001
SC – SC	IF-SM1-SC-SC-001	IF-MM1-SC-SC-001	IF-MM2-SC-SC-001	IF-MM3-SC-SC-001	IF-MM4-SC-SC-001

Features

High quality zirconia ferrules.
 Good repeatability and interchangeability.
 LC/SC/ST/FC/LSH/MTRJ/MU connectors with standard boots are available.
 LC connectors with 12mm/18mm and SC connectors with 25mm short boots are available.
 Flame-retardant, rugged and durable jacket.
 OS2/OM4/OM3/OM2/OM1 are available.
 Factory terminated and tested for insertion loss, return loss

OM1 / OM2 SC - LC

SM FC - LC

OM4 SC - LC



Specification

Connector Types	LC/SC/ST/FC/LSH/MTRJ/MU with Standard Boots; LC 12mm/18mm with Short Boots; SC 25mm with Short Boots SMF: UPC-UPC; UPC-APC; APC-UPC; APC-APC; MMF: UPC-UPC
Polish Type	SMF: UPC-UPC; UPC-APC; APC-UPC; APC-APC; MMF: UPC-UPC
Connector Ferrule	Zirconia Ceramic
Cable Outside Diameter	Duplex: 3.0mm, Simplex: 3.0mm
Interchangeability	≤0.2dB
Vibration	≤0.2dB
Fiber Types	Standard Boots: OS2/OM4/OM3/OM2/OM1; Short Boots: OS-2/OM4/OM3
Fiber Count	Duplex/Simplex
Cable Jacket	PVC (Riser/OFNR)/LSZH/Plenum (OFNP)
Jacket Color	OM1/OM2 (Orange) OM3/OM4 (Aqua) OS2 (Yellow)
Fiber Grade	SMF: G.657.A1; OM4/OM3/OM2: Bend Insensitive; OM1: G.651

PIGTAIL

Features

Fiber Mode 9 µm (G.652)
 Fiber Count Simplex
 Fiber Grade Bend Insensitive
 Minimum Bend Radius 7.5 mm
 Cable Jacket LSZH
 Wavelength 850 nm/1300 nm
 Insertion Loss ≤0.3 dB
 Return Loss ≥20 dB
 Operating Temperature -40~75°C
 Storage Temperature -45~85°C

Application

LAN, WAN and Metro Networks
 FTTH project & FTTH Deployments
 CATV System
 GPON, EPON
 Fiber Optic Test Equipment
 Data-base Transmit Broadband Net



Description	PART NUMBER				
	SM	OM1	OM2	OM3	OM4
Simplex ST, 1 meter	IF-PTSM1-ST-0X	IF-PTMM1-ST-0X	IF-PTMM2-ST-0X	IF-PTMM3-ST-0X	IF-PTMM4-ST-0X
Simplex SC, 1 meter	IF-PTSM1-SC-0X	IF-PTMM1-SC-0X	IF-PTMM2-SC-0X	IF-PTMM3-SC-0X	IF-PTMM4-SC-0X
Simplex LC, 1 meter	IF-PTSM1-LC-0X	IF-PTMM1-LC-0X	IF-PTMM2-LC-0X	IF-PTMM3-LC-0X	IF-PTMM4-LC-0X
Simplex FC, 1 meter	IF-PTSM1-FC-0X	IF-PTMM1-FC-0X	IF-PTMM2-FC-0X	IF-PTMM3-FC-0X	IF-PTMM4-FC-0X

Product Description

Comply with ANSI, Bellcore, TIA/EIA, IEC and other international standards and domestic telecommunications industry standards
 Active connection for fiber transmission
 Small insertion loss and large return loss
 Good interchangeability and repeatability

PRECON CABLE

Features

Lighter and small diameter, flame retardant, separated easily and excellent softness
 Two parallel FRP or metal reinforcements provide good compression resistance and protect the fiber;
 The cable has the advantages of simple structure, light weight and strong practicability;
 Unique groove design, easy to peel, easy to connect, simplify installation and maintenance;
 Low-smoke, halogen-free flame-retardant polyethylene sheath or flame-retardant PVC sheath for environmental protection



SC APC

SC UPC-APC

SC UPC

Specification

Fiber core	1 Core
Fiber style	ITU-T G567
Steel wire	1.0mm x 0.45mm
Installation	
Temperature range (°C)	-40deg C to + 70deg C
Connector color	Blue
Jacket color	Black
IL	<0.25db
RL	Duplex/Simplex
Attenuation	<0.36/0.23

Description	Part Number
SC UPC	IF-SCUPC-1C-3S-001
SC UPC-APC	IF-SCUPC-APC-1C-3S-001
SC APC	IF-SCAPC-1C-3S-001

JOINT CLOSURE



Inline

- Made from imported high-intensity engineering plastics (ABS) and formed the shape with mould plastics under high pressure.
- Light weight, high mechanical intensity, corrosive-resistance, anti-thunderstruck and long service life.
- Sealed with adhesive rubber strip(non-vulcanized) and sealed tape. Reliable sealing capability. It can be re-opened and easy to maintain.
- Unique disposition of different cable loops enables user to choose different outer diameter according to actual conditions, it enhances the reliability of the cable entrance sealed.
- Overlapping fiber-melting tray and separate insulation earth unit make the disposition of the cores, expanding the capacity and cable-earthen flexible, convenient and safe.
- Outer metal component and fixing unit are made of stainless steel, so can be repeatedly used in different environments.

Application

- Telecommunication subscriber loop
- Fiber to the home (FTTH)
- LAN/WAN



Dome

- Pole-mounted installation
- Cable inlet is sealed with heat shrinkable tube or threaded
- Made of imported high-strength engineering plastic (PP) and molded with high-pressure molding plastic
- Light weight, high mechanical strength, corrosion resistance, lightning resistance and long service life

Specification

Part Number DOME	IF-JC-DM-48
Part Number INLINE	IF-JC-IL-48
External Dimension (mm)	656(L)x260(B) x 162(D)
Suitable cable diameter (mm)	Distribution Cable: 4# of Ø7.0-Ø21.0 Feeder cable: 2# ø16-Ø25
Splice /Tray	24
No. of Splice Trays	12
Sealing type	Mastic Tape
Cable & Strength Member Holding	Available
Grounding	Optional

MEDIA CONVERTER

Multimode



Singlemode



Multimode



Singlemode



Specification 10/100 Mbps

Part Number SM	IFR-810ASS20-SC
Part Number MM	IFR-810AM-SC
Standard Protocol	IEEE802.3 IEEE802.3u IEEE 802.3x IEEE 802.3d
Operation Mode	Full / Half duplex mode
BandWidth	RJ 45 Port: 10/100Mbps
Optical Port	100Mbps
Connectors	Ethernet: RJ-45
Fiber	SC
LED Indicators	POWER, FPL,10/100, FRX, TRX , FDX.
TP Cable	Cat5e or Cat6 UTP cable (the max distance up to 100m)
Power supply (output)	DC5V, 1000mA
Power supply (input)	AC100-240V 50-60Hz, 0.3A
Power Consumption	≤5W
MTBF (Hours)	>50000
Work Temperature	0°~50°
Storage Temperature	-20°~60°
Humidity	5%~90% non-condensing
Fiber Cable	For Singlemode type 9/125µm (max distance up to 20km) For Multimode type 50/125 or 62.5/125µm (max distance up to 2km) External power supply : 9,5cm x 7cm x 2,5cm Internal power supply* : N/A
Dimensions	
Gross Weight	With External power supply : ±0.3 kg With Internal power supply* : N/A

Specification 10/100/1000 Mbps

Part Number SM	IFR-910ASS20-SC
Part Number MM	IFR-910AM-SC
Standard Protocol	IEEE802.3 IEEE802.3u IEEE 802.3z standard. IEEE 802.3ab standard.
Operation Mode	Full / Half duplex mode
BandWidth	RJ 45 Port : 10/100/1000Mbps
Optical Port	1000Mbps
Connectors	UTP : RJ-45
Fiber connector	SC
LED Indicators	POWER, FPL,10/100, FRX, TRX, FDX.
TP Cable	Cat5e / Cat6 UTP cable (max distance up to 100m, depends on the cable manuf.)
Power supply (output)	5V DC 2A
Power Supply (Input)	AC110-250V, 50-60Hz 0,45A
Power Consumption	≤5W
MTBF (Hours)	>50000
Work Temperature	0°~50°
Storage Temperature	-20°~60°
Humidity	5%~90%
Fiber Cable	SM Type 9/125µm (max distance up to 20km), Longer distance available as optional MM Type 50/125 (max distance up to 550m), 62.5/125µm (max distance up to 275m) External power supply type 4mm*70mm*25mm Internal power supply* : N/A
Dimensions(mm)	
Gross Weight	External power supply : 0.4 kg Internal power supply* : N/A

RACKMOUNT

CHASSIS



Features

- Standard 19-inch rack-mountable with, 2U height
- Non-stop operation & minimal downtime
- Allows hot-swapping of media converters
- Hot swappable redundant power supplies
- Cooling fans on back side (together with power supplies)
- Second AC to DC power supply for load-sharing purposes (Optional)
- Media converter power isolation for electrical isolation from each bay
- Offers over-voltage and over-current protections

Specification

Part Number	IFR-JJ14ZC1
Power input	AC 100 ~ 260V, 50~60Hz; Or DC48V
Power output	DC +5V 12A(single power) or 24A(dual power)
Number of slots	14
Color	Black
14 slots chassis	10/100M or 1000M or 10/100/1000M external power supply media converter
Ripple	≤ 50Mv
Noise	≤ 50Mv
Power Protection	Circuit- breaker when over voltage, over current ,over flow and short circuit
Operating Temperature	0° ~ 70° (32° F ~ 158 °F)
Storage Temperature	-20° ~ 85° C (-4°F ~ 185 °F)
Humidity	5%~95%
Dimensions	485mm x 245mm x 90mm (Standard 19-Inch, 2U height)
Weight	8 Kg
Emissions	Complies with FCC Class A and CE Class A.
Safety	CE, U L

ADAPTER COUPLER



LC Adapter Coupler duplex



ST Adapter Coupler duplex



FC Adapter Coupler simplex



SC Adapter Coupler duplex

Features

- Low insertional loss and back reflection loss
- High precision alignment
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance
- Compact design
- Plastic housing

Specification

Adapter Type	SC/LC/FC/ST
Insertion Loss	≤0.2 dB
Interchangeability	≤0.2 dB
Repeatability	≤0.1 dB
Temperature	-40°C ~ +85°C

Applications

- CATV
- Telecommunication networks
- Test equipment
- Metro
- Local Area Networks(LANs)
- Data processing networks
- Multimedia
- Gigabit Ethernet
- Active device/Transceiver

CONNECTOR

Features

- Epoxy, Polish
- Low Insertion Loss
- High Interface Performance
- Pre-radiused Ferrule
- Complies with Telcordia GR-326-CORE, UL and RoHS standard
- Differentiated by color coded (for LC and SC only)



ST



FC



SC



LC

Applications

- Telecom Network
- Ethernet Network
- Optical Communication Equipment

Specification

Applicable for	Drop Cable
Optical fiber diameter	0.9mm, 2.0mm, 3.0mm
Fiber mode	SM,MM
Operation time	About 100s (no fiber cut)
Insert loss	0.3dB(1310nm & 1550nm)
Return loss	>50db(PC), >55db(UPC), >65db(APC)
Fastening strength of naked fiber	>5 N
Fastening strength of naked fiber holder	>10 N
Tensile strength	>50 N
Using temperature	-40-+75°C
On-line tensile strength	IL≤0.5dB RL≤ 5dB
Mechanical durability	IL≤0.5dB RL≤ 5dB
Drop-off test	IL≤0.5dB RL≤ 5dB

Standing Glass Door Rack 19 Inch

Standard Specification

- ANSI/EIA RS-310-D
- IEC60297-3-100
- DIN41494:PART1
- DIN41494:PART7
- GB/T3047.2-92:ETSI



Static Loading



Toughened Glass Door



No Need Welding



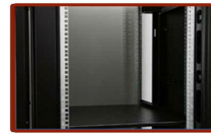
Easy Assembly

Product Features

- Toughened glass door with round hole vented arc door border
- Plate steel rear door/Plate vented rear door/Optional double-section rear door
- Mounting profiles with laser U-mark
- Optional Fan unit, easy installation
- High static loading capacity 1000KG
- Comply with UL, ROHS certifications

Product Accessories Included

- Toughened glass door with round hole vented arc door border red strip,with spring lock;
- Rear mesh door, with spring lock;
- 1pc fixed shelf of depth 575mm;
- 2pcs / 4pcs fans 220V with Germany plug;
- M6 galvanized cross screws & nuts (100sets);
- 1pc top brush panel; 1Set cable ring;
- 1pc PDU: 6 way Germany plug and Germany socket,switch on/off, 1.5m wire, 16A, aluminum outside;



Mounting Profile + Cable Management slot



Fan Unit



Earthing kits*



Vertical Assembly PDU



Model No	Size	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
IFR.2090	20U	1100	600	900	±77
IFR.4290	42U	2055	600	900	±117

Materials	Frame	Front Door	Rear Door	Turning Degree
SPCC cold rolled	Disassembly	5mm Toughened glass door	Plate steel door/ Vented plate door	>180°

Side Panels	Thickness	Static Loading Capacity	Rear Door	Turning Degree
Removable side panels	Mounting profile 2.0mm Mounting angle 1.5mm Others: 1.2mm	1000KG	Degreasing, Silanization, Electrostatic Spraying	IP20

Wallmount Rack 19 Inch Series

Standard Specification

- ANSI/EIA RS-310-D
- IEC60297-3-100
- DIN41494:PART1
- DIN41494:PART7



Static Loading



High Quality

Product Features

- Removable side panels, easy to install and maintain
- Optional Metal cable management
- Adjustable depth of installation
- Comply with UL, ROHS certifications

Product Accessories Included

- Glass door with round hole vented arc door
- border, red ornament strip, #818 spring lock;
- 1 hole fan;
- 1pc fan 220V with wire and Germany plug;
- 1pc PDU: 6 way Germany plug and Germany socket,switch on/off, 1.5m wire, 16A, aluminum outside;
- 1 pair L rails of 280mm length
- 1 brush panel on the top, bottom panel with detachable metal cover;
- 1pc earth grounding wire of 300mm;
- 4pcs M10*80 dynabolt



Model No	Size	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
IFR.0445	4U	280	600	450	±22
IFR.0645	6U	340	600	450	±27
IFR.0850	8U	460	600	500	±31
IFR.1250	12U	660	600	500	±34
IFR.1550	15U	780	600	500	±38

Materials	Structure	Static Loading Capacity
SPCC cold rolled steel	Welded frame	70KG

Thickness	Surface Finish	LOCK
Mounting profile 1.5mm Others 1.2mm Side panel 1.0mm	Degreasing, Silanization, Electrostatic Spraying	Small round lock