



E-SYSTEMIZER

Connecting Accurately!



INTRODUCTION

E-Systemizer Tech Pvt. Ltd is an ISO 9001-2015 Certified Company having state-of-art advanced Technology in-house manufacturing facility established in RAI industrial area close to North Delhi which is providing uncompromised quality of products & services in the field of telecommunication across all over India. With the team of the most efficient and expertise quality and professionalism, E-Systemizer is always the favorite in the field as the technicians and engineers of ours leaves no table unturned to provide quality product and services for the satisfaction of our clients.

OUR PRODUCT AND SERVICES

We are one of the leading manufacturers of infrastructure solution for telecommunication in the country. In Field of Telecom connectivity, fiber optic, RF, MW and other range of networking products like Fiber Optic Cable(armored/unarmored), Accessories, Splitters, Attenuator, Patch Cords are the ranges of products offered by E-Systemizer.

Our wide range of products also includes-, RF Connectors, Jumper Cable, Weather Proofing Kits, Earthing Kits, Tower Cable Trays/Ladder, Feeder Marking Set, BTS Label Set, Surge Arrestor, Clamps and Hangers along with Cable Entry systems. We also deal in In-Built Solutions/Systems which includes Power Splitter/Combiner, Omni Antennas, Directional /Hybrid Couplers.

E-Systemizer is also known as the best manufacturer of Fiber Optic Cable. Our team always looks for bringing the most advanced and best telecommunication connectivity cables & devices for the industry. The dedicated research and development team is always on their feet to bring something new or the excel in the field along with help of our best and most trusted Quality Management System to ensure error free service for the complete satisfaction of our clients.

QUALITY OF OUR SERVICES

We aim to provide “Guaranteed Quality, Served through Technology” and that is why our team of expert professionals is dedicatedly working for the quality management system so that each and every services and product is of unmatched quality.

E-Systemizer is the sister concern company of **Accurate Connecting Systems Pvt Ltd.(www.acspl.in)**, we have also succeeded in gaining the faith and trust of our client and that is also in a very short duration of time with our quality services.

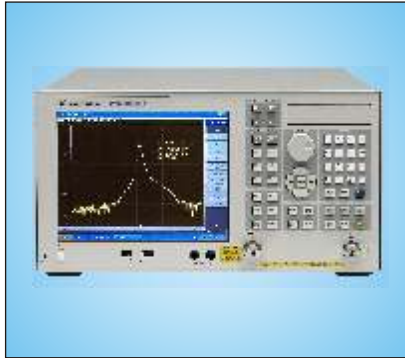
OUR CERTIFICATIONS



ISO 9001:2015



TEST & MEASURING INSTRUMENTS



NETWORK ANALYZER



PIM TEST ANALYZER



SITE MASTER



IL/RL TEST METER



MICROSCOPIC APPARATUS



OPTICAL LIGHT SOURCE



TENSILE TEST MACHINE



HOT AIR OVEN



OXYGEN INDEX APPARATUS



OPTICAL TIME DOMAIN REFLECTOMETER(OTDR)



FUSION SPLICER



CABLE ANALYZER

OUR MANUFACTURING PROCESS



OPTICAL FIBER CUTTING PROCESS



CONNECTOR ASSEMBLING PROCESS



CURING PROCESS



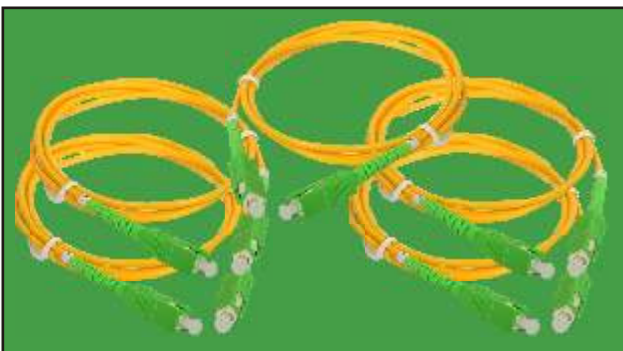
POLISHING PROCESS



END FACE TESTING



IL/RL TESTING



FINAL PRODUCT



READY FOR SHIPPING

OUR MANUFACTURING PROCESS



CABLE CUTTING



CABLE STRIPPING



PIN SOLDERING



CONNECTOR SOLDERING



CABLE MOULDING



VSWR TESTING



PIM(Passive Intermodulation) TESTING



READY FOR SHIPPING

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Fiber Optic Patch Cord

SC/FC/LC/ST/MTRJ regular patch cord



A patch cord is a fiber optic cable used to attach one device to another for signal routing. Normally, there are 5 types connector: SC/FC/LC/ST/MTRJ.. 3types ferrule: PC, UPC, APC...

SC stands for Subscriber Connector- a general purpose push/pull style connector. It is a square, snap-in connector latches with a simple push-pull motion and is keyed.

FC stands for Fixed Connection. It is fixed by way of threaded barrel housing. FC connectors are generally constructed with a metal housing and are nickel-plated.

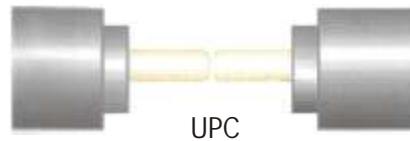
LC patch cord is a fiber optic cable used to attach one device to another for signal routing. LC stands for Lucent Connector. It is a small form-factor fiber optic connector, half the size of the SC.

ST stands for Straight Tip- a quick release bayonet style connector. ST connectors are cylindrical with twist lock coupling. They are push-in and twist types

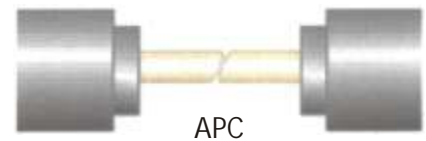
MTRJ stands for Mechanical Transfer Registered Jack. It's half the size of the SC connector.



PC stands for Physical Contact. With the PC connector, the two fibers meet as they do with the flat connector, but the end faces are polished to be slightly curved or spherical. This eliminates the air gap and forces the fibers into contact



UPC stands for Ultra Physical Contact. The end faces are given an extended polishing for a better surface finish. These connectors are often used in digital, CATV, and telephony systems.



APC stands for Angled Physical Contact. The end faces are still curved, but they're angled at an industry-standard eight degrees. This maintains a tight connection. These connectors are preferred for CATV and analogue systems.

Parameter

Specification	Unit	FC, SC, LC, ST			
		SM			MM
		PC	UPC	APC	PC
Insertion Loss (typical)	dB	£0.3	£0.2	£0.3	£0.2
Return Loss	dB	/ 45	/ 50	/ 60	/ 35
Operating Wavelength	nm	1310, 1510			
Operating Temperature	°C	-40~75			
Storage Temperature	°C	-45~85			
Cable diameter	mm	w 3.0, w 2.0, w 0.9			

MTO/MTP Series

MPO (Multifiber Pull Off) was the first generation of MTP designed by NTT. It is now the name of the category of multi-fiber connectors produced by several companies. MTP (Mechanical Transfer Pull Off), however, is USCONEC's trade name for their own superior style of MPO connector.



Features

- Push-pull latching
- Easy assembly, no crimp tool needed
- Alignment achieved with high precision guide pins
- Designed for low loss and standard loss SM and MM applications
- Ruggedized round cable, oval cable and bare ribbon options available
- Color coded housings available to differentiate fiber type, polish type and/or connector grade

Application

- Array trunk cables
- Array fiber to single fiber fanouts and cassettes
- High fiber density card edge access
- Optical switching interframe connections
- Datacenter cabling

Parameter

Specification	MM Low loss Multimode MT Ferrule	Standard Multimode MT Ferrule	SM Low loss Singlemode MT Ferrule	Standard Multimode MT Ferrule
Insertion Loss	Typical<0.30dB Maximum<0.5dB	Typical<0.50dB Maximum<0.7dB	Typical<0.30dB Maximum<0.5dB	Typical<0.50dB Maximum<0.7dB
Return Loss	>20dB	>20dB	PC>=45dB	PC>=45dB
			APC>=60dB	APC>=60dB

FTTA (Fiber To The Antenna) PATCH CORD



Features

- Good mechanical and environmental characteristics
- Flame retardant characteristics meet the requirements of relevant standards
- The mechanical characteristics of jacket meet the requirements of relevant standards
- Soft, flexible, water blocked, UV resistant, easy to lay and splice, and with big capacity data transmission
- Meet various requirements of market and clients

Application

- | | |
|--|--|
| <ul style="list-style-type: none"> ➤ 3G 4G base stations used ➤ Aerospace & Defence ➤ Equipment diagnosis | <ul style="list-style-type: none"> ➤ FO sensor ➤ FTTA, FTTP, FTTX, WIMAX ➤ BBU, RRU, RRH, LTE |
|--|--|

Parameter

Insertion Loss	$\leq 0.3\text{dB}$
Repeatability	$\leq 0.2\text{dB}$
Fiber Core	2,4
Mating times	$\geq 500\text{N}$
Working temperature	$-40 \sim +80^{\circ}\text{C}$

ODC Patch Cord

The ODC Connector together with the far transmission cable, are becoming the standard interface specified in 3G, 4G and Wimax Base Station remote radios and FTTA (Fiber-to-the-Antenna) applications.



Features

- Screwed locking mechanism, confirm the connection is long-term and reliable.
- Guide structure, can be installed blindly, simply and quickly.
- Airtight construction: Water proof, dust proof and corrosion resistant. Protection caps.
- Compact appearance, robust and flexible.
- Sealing design through wall.
- Reduce the times of splicing.

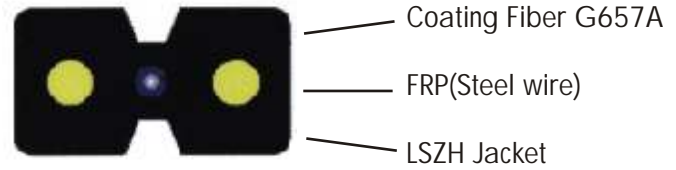
Application

- | | |
|---|---|
| <ul style="list-style-type: none"> ➤ Indoor and Outdoor applications ➤ Outdoor & Military communication equipment connection. ➤ Oil field, mine communication connection. ➤ Far transmission wireless base station. | <ul style="list-style-type: none"> ➤ Video Surveillance system ➤ Optical fiber sensor. ➤ Railway signal control. ➤ Intelligent substation |
|---|---|

Parameter

Insertion Loss	<=0.7dB
Repeatability	<=0.5dB
Fiber Core	2/4
Mating times	>=500N
Working temperature	-40 ~ +80°C

FTTH Drop Patch Cord



Application

- CATV
 - Telecommunication networks
 - Active device termination
 - Metro
 - Local Area Networks (LANs)
- Data processing networks
 - Test equipment
 - Premise installations
 - Wide Area Networks (WANs)

Cable Parameters

Items		Specifications
Fiber Count		1 / 2 / 4 Core
Colored Coating Fiber	Dimension	250±15 mm
	Color	White / Black /Others
	Dimension	(2.0±0.1) mm x (3.1±0.1) mm
	Material	LSZH /PVC
Jacket	Color	Black /White
Strength Member		FRP& (Steel Wire)

Parameter

Item	Singlemode	Multimode
Insertion loss	<=0.3dB	<=0.3dB
Return loss	>=50dB	>=35dB
Operating temperature	-40 ~ +85 °C	
Ceramic ferrule spec	125.5um concentricity deviation<=1 mm	127um concentricity deviation<=3mm
Mode type	9/1 25 mm	50/ 125 mm, 62.5/ 125 mm

LX.5 Patch Cord

The LX.5 was developed with carrier-class reliability to ensure network integrity. Available in simplex or duplex configurations, the LX.5 maintains single circuit access and incorporates safety shutters on both the connector and adapter body to provide protection from dust, dirt, and ferrule end-face handling damage. The connector also features a latching mechanism that effectively releases the connector from the adapter. Its user-friendly and intuitive design prevents cables from snagging at the back of the connector.



Features

- Doubles the density; twice as many fiber connections
- Exactly half the size of the SC connector; adapter fits the SC footprint
- Shutters on both the adapter and connector
- Incorporates proven, reliable ceramic ferrules
- Available in singlemode and multimode versions
- Easy to convert between simplex and duplex connectors

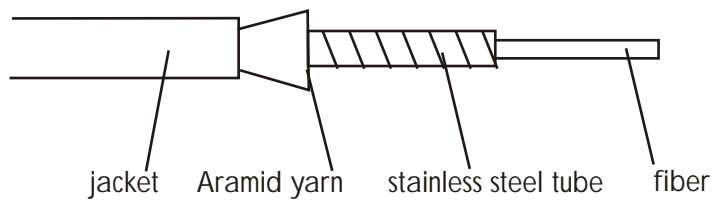
Application

- Telecom
- LAN, WAN
- CATV
- Sensor Systems
- Measuring Technique
- Utilities, Railways

Parameter

Insertion Loss	≤0.2dB (UPC)
	≤0.5dB(APC)
Boot OD	3.0mm, 2.0mm, 1.6mm, 0.9mm optional
Operating temperature	-40 ~ +75°C

Armored Patch Cord



Armored patch cord can be laid in all kinds of environmental extremes. It is used without protection tube which saves space and is quite convenient for maintenance. Also it has the construction including

stainless steel tube which protects optical fiber and provide better security for the whole system.

Features

- Protection of stainless steel tube with small caliber.
- Avoid the damage of torsion.
- High tensile coefficient and stress coefficient.
- Convenient for application, highly security.
- Application without damage to cable.
- Manufacture without damage to cable.
- Cost cutting for maintenance.

Application

- Machine room
- FTTH
- Area network
- Test equipment
- National defence
- FO sensor
- Light communication system
- Common antenna TV system

Parameter

Fiber Core	1/2/4/8 cores
Insertion Loss	$\leq 0.3\text{dB}$
Tensile strength	Short term: / 300N; long term: / 150N.
Working temperature	$-40 \sim +85^{\circ}\text{C}$

Waterproof pigtail/ Patch Cord

Waterproof fiber pigtail/Patch cord can be used in harsh environment. It is mainly used in outdoor connection of the optical transmitter. Waterproof fiber pigtail is designed with a stainless steel strengthened waterproof unit and armored outdoor PE jacketed cables. Waterproof fiber pigtails/Patch cord are widely used in data transmission network, typical types are with 2 fiber cores, 4 fiber cores or 8, 12 fiber cores. By adopting the special structure cables and connectors, these fiber cable assemblies are widely used in CATV and other applications.



Features

- Waterproof features & reliable performance
- Pull & erosion resistance, good grounding
- Low insertion loss, high return loss, excellent exchangeability, high stability
- The cable and pigtail is not moved when tighten the connection screw, which ensure the convenient construction.

Application

- CATV & LAN
- Data & Communication System
- Connection for main fiber and optical receiver.

Parameter

Fiber Core	1 /2/4/8/1 2 cores
Insertion Loss	<=0.3dB
Max OD (mm)	Inner cable OD:2.0mm, Outer cable OD:11.8mm. Inner cable OD:1.6mm. Outer cable OD:9.8mm
Working temperature	-20 ~ +70t

More New Patch Cords



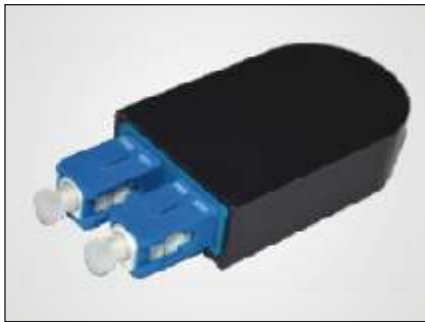
Mode Conditioning Patch Cord



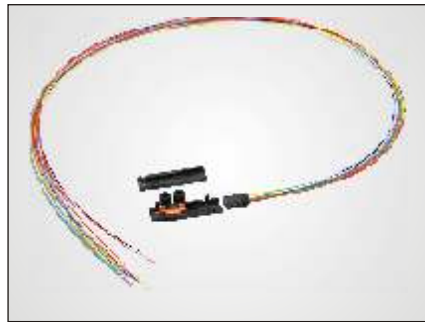
Bundle Patch Cord



Pulling eyes Patch Cord



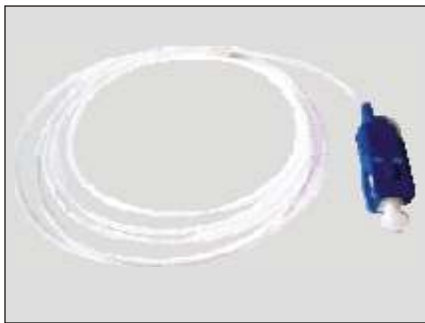
Loopback Jumper



Fan-out Kit Tubing



Bare ferrule Pigtail



Bare fiber Piatail



Spring patch cord



E2000 Patch Cord



DIN Patch Cord

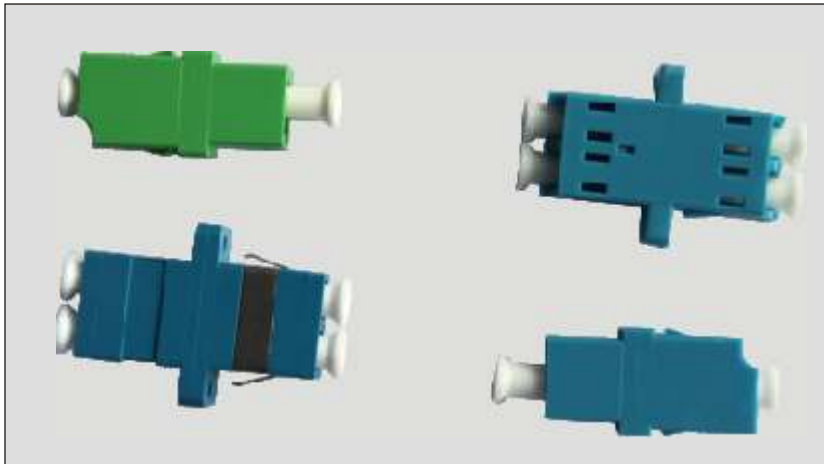


MU Patch Cord



PDLC Patch Cord

Fiber Optic Adapter



LC Adapter



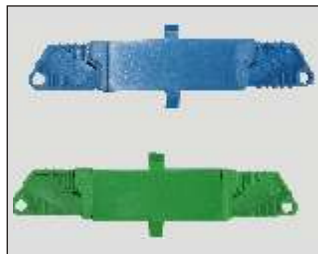
SC Adapter



FC Adapter



MTRJ Adapter



E2000 Adapter



MPO Adapter



ST Adapter

Parameter

Parameter	Unit	SC/LC/FC/ST/MPO/MT-RJ/E2000			
		SM			MM
		PC	UPC	APC	PC
Insertion Loss	dB	£0.3	£0.2	£0.3	£0.2
Exchangeability	dB	£0.2			
Repeatability	dB	£0.2			
Durability	Time	>1000			
Operating Temperature	°C	-40~75			
Storage Temperature	°C	-45~85			

Hybrid Adapter



FC-ST



FC-SC



FC-LC



ST-LC



ST-SC



SC-LC



FC-SC FC-ST SC-ST Duplex...

Hybrid fiber optic adapters offer a solution for hybrid applications where the two different kinds of fiber connectors or cable assemblies need to be linked with each other.

Application

- Local Area Network
 - CATV System
- Telecommunication Networks
 - Equipment Test

Parameter

Parameter	Unit	FC-ST, FC-SC, FC-LC,ST-LC,ST-SC,SC-LC			
		SM			MM
		PC	UPC	APC	PC
Insertion Loss	dB	£0.3	£0.2	£0.3	£0.2
Exchangeability	dB	£0.2			
Repeatability	dB	£0.2			
Durability	Time	>1000			
Operating Temperature	°C	-40~75			
Storage Temperature	°C	-45~85			

Bare Adapter



Bare Fiber Adapter is a most affordable and easy method for temporarily connecting bare fiber with all industry standard connectors. We provide a simple and easy method to quickly interconnect any standard fiber connector to a piece of unterminated (bare) fiber to meet service, test or communication requirements.

Application

- Temporarily connect bare fiber
- Testing bare fiber, fiber on the reel, fiber before and after installation
- Temporary connections to OTDRs, Power Meters, Talksets, Demo Equipment, Light Sources, Data & Telecom Equipment and Dark Fiber
- Maintenance, Restoration and Installation Jobs

Features

- Technology Award Finalist
- Constructed of machined aluminum
- Stainless steel connector modules
- Requires only .14" to .55" of fiber exposed after cleaving
- Accepts buffer up to 900uM
- Reusable, easy clean-out
- Interchangeable connector modules
- Unique holding mechanism utilizing new micropads to hold the fiber secure during testing

Male to Female Adapter



Male to female fiber optic adaptors allow user to convert from one connector type to another. These adaptors are comprised of a polymer/metal outer body and inner assembly fitted manufactured to demanding specifications, The combination of ceramic /Phosphor bronze alignment sleeves and a precision moulded polymer housing provides consistent long-term mechanical and optical performance

Application

- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, mounts in Fiber Optic
- Wall Mount and Rack Mount Cabinets

Features

- Female to male hybrid adaptor
- Application for system requirement
- Saving cost

Parameter

Parameter	Unit	ST			
		SM		MM	
		PC	UPC	APC	PC
Insertion Loss	dB	£0.3	£0.2	£0.3	£0.3
Operating Temperature	°C	-40~85			
Storage Temperature	°C	-45~85			

More New Adapter



MTRJ Adapter flange type



MTRJ Adapter SC Type



MPO Adapter



MU Adapter



MU DX Adapter



DIN Adapter



FC-E2000 Adapter



LC-E2000 Adapter



SC-E2000 Adapter



FC-MU Adapter



LC-MU Adapter



SC-MU Adapter



SC SX Shutter



SC DX Shutter



LC DX Shutter



LC/APC Quad Shutter

Fiber Optic Attenuator



Features

- Low back reflection and Low PDL
- High precision attenuation value
- Precision control of attenuation range
- Wide attenuation range
- Precision ceramic ferrule
- FC, SC, ST, LC ... optional
- Plastic or metal housing material

Male to Female type Optical Attenuator flange type optical attenuator

Fiber Optic Attenuator is a component installed in a fiber optic transmission system that reduces the power in the optical signal.

It is often used to limit the optical power received by the photo detector to within the limits of the optical receiver.

Application

- Fiber optical telecommunication system
- Fiber optical CATV
- Fiber optical sensor
- Testing equipment

Specification

Item	Unit	Parameter
Operating Wavelength	nm	SM:1310/1550nm MM: 850 /1300nm
Attenuation Range	dB	1-10 dB(1dB step), 15, 20, 25, 30 dB
Return Loss	dB	PC:/ 50 UPC:/ 55 APC:/ 60
Attenuation Tolerance	dB	± +/-0.5(1-10dB) or ± +/-1.0(11-30dB)
Operating Temperature	°C	-25°C ~ +75°C
Storage Temperature	°C	-40°C~ + 85°C

More New Attenuator Adjustable optical attenuator



SC Type

LC Type

FC Type

ST Type

Mechanical Optical
Attenuator

In-line Optical
Attenuator

Fiber Optic Splitter

FBT Splitter

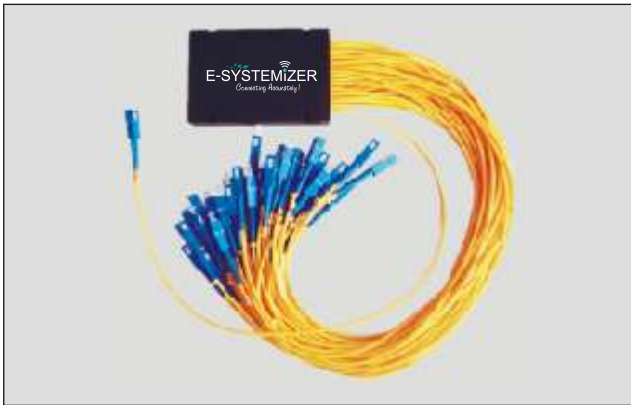


The FBT Splitter can couple the optical signals in the coupling area, and then re-distribute the light power. The key parameters include operating wavelength, bandwidth, and excess loss, coupling ratio, PDL and so on.

Specification

Directivity(dB)	> 55			
Operating Temperature(°C)	-20~+70			
Storage Temperature(°C)	-40~+85			
Fiber Pigtail Length(m)	1 or Customer On Request			
Port Configuration	1 x 2 /3/4 any ports..			
Single mode Dual/Three Window Tree/Star Couplers				
Port Configuration	1X4	1X8	1 X16	1 X32
Max. Insertion Loss (dB)	7.2	10.8	14.4	17.8
Uniformity (Max.) (dB)	0.8	1.7	2.0	2.5
Operating Wavelength (nm)	1310/1550±40, 1310/1490/1550±40 or Custom wavelength			

PLC Splitter



Planar light wave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting.

Specification

Parameters	1x2	1x4	1x8	1x16	1x32	1x64	1x128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or customer specified						
Insertion Loss (dB) (P/S Grade)	3.8/4.0	3.8/4.0	3.8/4.0	3.8/4.0	3.8/4.0	3.8/4.0	3.8/4.0
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2.0	2.5
Polarization Dependent Loss(dB)	0.2	0.2	0.2	0.25	0.3	0.35	0.4
Return Loss (dB)(P/S Grade)	55/50	55/50	55/50	55/50	55/50	55/50	55/50
Directivity (dB)	55	55	55	55	55	55	55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.5	0.5	0.5	0.5
Temperature Stability (-40~85 °C) (dB)	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Operating Temperature (°C)	-40~85						
Storage Temperature (°C)	-40~85						
Device Dimension (mm)	40x4x4	40x4x4	40x4x4	50x4x4	50x7x4	60x12x4	N/A
Module Dimension (mm)	100x80 x10	100x80 x10	100x80 x10	120x80 x18	140x115 x18	140x115 x18	140x115 x18
Mini-Module Dimension (mm)	50x7x4	50x7x4	50x7x4	60x12x4	80x20x6	100x40x6	N/A

Fiber Joint enclosure

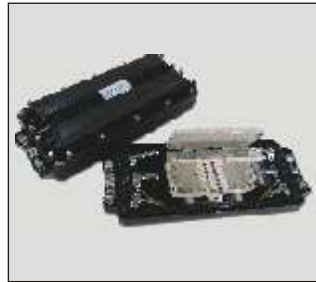
In-line type/Horizontal



IJS-(04)-1



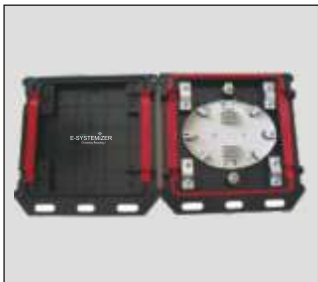
IJS-(04)-2



IJS-(04)-3



IJS-(04)-3



IJS-(04)-5C



IJS-(04)-6



IJS-(04)-7



IJS-(04)-8

E-Systemizer provides In-line joint closure, they can be used in aerial , duct, and direct buried application. They are made of the high quality material and with the mechanical sealing structure filled with the sealing material, and can be reopened and reused without changing sealing material and tools. IP68 Grade.

Specification

Item	IJS(04)-1	IJS (04)-2	1JS (04)-3	IJS (04)-5	IJS(04)-5C	IJS (04)-6	IJS (04)-7
Dimension(mm)	435x190 x85	435x190 x120	435x190 x120	435x190 x80	200x220 x42	435x140 x75	435x190 x170
Weight(kg)	2.6	2.8	2.6	2.3	0.8	1.5	4.7
Cable diameter(mm)	F10/F17	F10/F22	F10/F22	F10/F17	F10/F22	F10/F12.5	F10/F22
Cable ports	2 in, 2 out				3in, 3out	1 in, 1 out	4in, 4 out
Max capacity	96	168	192	96	24	48	288
Sealing structure	Sticky Cincture						

Vertical type/Dome Type



IJS-M3-JF



IJS-M3-RS



IJS-M5-RS



IJS-M5-JF

E-Systemizer provides In-line joint closure, they can be used in aerial , duct, and direct buried application. They are made of the high quality material and with the mechanical sealing structure filled with the sealing material, and can be reopened and reused without changing sealing material and tools. IP68 Grade.

Specification

Item	IJS-M3-JF	IJS -M3-RS	IJS -M5-RS	IJS-M5-JF
Size (mm)	F 190x410	F 190x435	F 210x540	F 210x540
Weight (kg)	2.6	2.5	3.9	4.0
Cable diameter	F7~F22	F7~F22	F7~F22	Max: 1*32 PLC Splitter
Cable ports	2 in, 2 out	2 in,2 out	2 in,2out, 1oval port	2 in, 2out, 1 oval port
Splice tray cores	24(single)	12/24 (single)	24(single)/72(ribbon)	24(single)
No. of splice tray	4	4	4	6
Max capacity	96(single)	96(single)	96(single)/288(ribbon)	144 (single)
Cable entry sealing	Screw mechanical	Heat-shrinkable sealing	Heat-shrinkable sealing	Screw mechanical

Fiber Optic Terminal Box

19" Rack mounted Fixed type



ITB-R-SC24



ITB-R-SC24



ITB-R-2SC12



ITB-JCL-SC24

Fiber Optic Terminal Box can be applied in the branch connection of fiber termination, such as distribution box, 19" standard structure, rack mounting, be able for installation of FC, SC, ST, LC adapters, Max capacity is 48Core

Specification

Type	Dimension(mm)	Capacity cores	Remark
ITB-R-1 U	480*250*1U	12 /24	The body is made of cold rolled steel sheet, with electrostatic spraying. We can install adaptors for you, available for FC, ST, SC, LC.
ITB-R-2U	480*250*2U	36/48	
ITB-JCL-1 U	480*300*2U	12/24	
ITB-FCZ-1U	480*300*1 U	12	
ITB-R-FC24	480*250*1U	24	
ITB-R-FC48	480*250*2U	48	
ITB-R-ST12	480*250*1U	24	
ITB-R-ST24	480*250*1U	24	

19" Rack mounted Slidable/Drawer type



ITB-RS-SC24



ITB-RS-2V-SC24

slidable rack mount fiber optic distribution frame is with the drawer for splicing, easy to withdraw the fibers when testing and distributing. It has aluminum sliding fittings with self-locking functions prevent the drawer from falling when moved.

Model	Dimension(mm)	Max capacity(cores) .	Remark
ITB-RS-SC/24	430*300*1U	12	Cold rolled steel sheet, with electrostatic spraying, suitable for FC, SC, ST, LC adapters.
ITB-RS -FC24		24	
ITB-RS -2SC24		48	
ITB-RS-FC48	430*300*2U	48	
ITB-RS-2V-SC24	430*300*1U	24	

Fiber Optic Distribution Panel

Wall mounted type



IDF-(05)A



IDF-(05)B



IDF-(05)A-24A

Available for small capacity communication system, wall mounting, reasonable and compact structure, harmonized with machine room. The cabinet is composed of two parts, one links with optical cables for fusion connection between optical cable and fiber pigtail and another links with patch cord.

Features

- Provide fusion and storage appliance for optical cables
- Reliable protection appliance of fixing, stripping and earthing for optical cables.
- Whole range protected design for fiber lay to ensure the bending radius=40mm
- Provide various accessories to avoid any unexpected damage to the fiber

Specification

Type	Dimension(mm)	Max capacity cores	Remark
IDF(05)A-24	455*405*80	24	cold rolled steel sheet, electrostatic spraying. Provide 24-72 adaptors, available for FC,ST,SC,LC. Fit for wall mounting
IDF (05)A-48	455*405*120	48	
IDF (05)A-72	455*405*150	72	
IDF (05)B-48	455*405*120	48	cold rolled steel sheet, electrostatic spraying. Provide 48-72 adaptors, available for FC,ST,SC,LC. Fit for wall mounting
IDF (05)B-72	455*405*150	72	
IDF (05)A-24A	350*350*80	24	cold rolled steel sheet, electrostatic spraying. Provide 12-24 adaptors, available for FC,ST,SC,LC. Fit for wall mounting
IDF (05)C-24	350*300*80	24	
IDF (05)D-24			

Fiber Splitter box

4/8/16 Port Outdoor splitter box



FTB-04



FTB-08



FTB-16

- PLC splitter is compatible with 3 wavelength (1310/1490/1550)
- Low insertion loss and high directivity, high quality, reliability, and performance
- Available for :1 x2,2x2,1 x4, 2x4,1 x8, 2x8, 1X16, 2X16
- FTTH network and CATV system application
- Suitable for SC, LC duplex adapter
- Design to protect splitter
- Bracket preparation that can be fixed when installing it on wall
- Application for outdoor, IP65 grade

Dimension

Model	Capacity	Size
FTB-04	4 ports	210mm(W)X140mm(H)x40mm(D)
FTB-08	8 ports	200mm(W)x215mm(H)x54mm(D)
FTB-16	16 Ports	260mm(W)x320mm(D)x115mm(D)

32/64 Port Outdoor Splitter Box

Features



FTB-32



FTB-64

- High quality cold rolled steel body,electrostatic spraying with water proof powder
- High quality water proof lock,wall mounted cabinet
- Operating temperature:-30°C ~ +55°C,storage temperature: -40°C~ +60°C
- With access to 2 pcs of 12 cores fiber optic cables and up to 32 pcs of customer cables
- Suitable for multi fiber optic cable access as well
- Suitable for 36 pcs of SC, FC, ST adapters, easy to installation and maintenance
- Support branch connection styles

Item	FTB-32	FTB-64
Dimension (mm)	H450Xw350xD150	H550Xw450xD220
Cable diameter (mm)	F 10~ F 14	
Cable ports	2 holes	
Max capacity of splice tray	24 (single fiber)	
Max quantity of splice tray	2	4
Max capacity of main backbone cable	12 (single fiber)	

FTTH Products

Quick Assembly Connector



QAC

QAC/ SC has easy assembly and excellent stability features without further processing, such as polishing, adhesives to facilitate the termination of the fiber in the field and working hard to secure space environment alone can access for assembling like pole, manholes.

In addition, it can be reduced the defect rate dramatically by worker's connection error, due to being able to reconnected.

Features

- No special assembling tool
- Easy for assembling with mechanical splice and no polishing
- Easy for learning technology by a simple assembling method (within 1 and half minutes)
- Minimize the defect rate by features of removal and reusable.

Specification

Article	value
Insertion loss	£0.3 (max 0.4)
Return loss	/ 40dB
Connector type	SC/PC
Cable	drop 3.0mm / flat 2x3mm cable

Mechanical splice



E-Systemizer Mechanical Splicer provide quick and easy fiber splice in the field. It employs the mature V-groove technology, can be widely applicable for splicing different optical

cables, optical fiber splicing of floor distribution units (FDU), splicing of the optical drop cables with the pigtails in the multimedia boxes, and repairing any damaged lines to realize firm and reliable splicing in optical fibers. Mechanical Splicer applies to connect any single-core multimode fiber and single-core fiber Easy and rapid to operate, safe and reliable.

FTTH Customer terminal box



FTB-86



FTB-0102



FTB-104B

Features

- Applicable for FTTH, FTTO an FTTD, etc., and allows easy use in different installation environments.
- The clasp design of the cover has greatly reduced the installation strength.

Specification

Model	Inner carton dimension(mm)	Inner carton weight(kg)
FTB-86	86x86x23	0.08
FTB-0102	205x115x35	0.25
FTB-104B	150x110x30	0.15

Media Converter

10/ 100M Single Fiber Media Converter

Features

- Complies with IEEE 802.3 10 Base-T standard.
- Complies with IEEE 802.3u 10/100 Base-TX/FX standard
- Complies with IEEE 802.3X standard
- 10/100/ Mbps port with full/half duplex auto-negotiation
- Back pressure flow control for full duplex
- Twisted-pair connector: NODE/HUB or SWITCH (5 class UTP)
- Back pressure flow control for full/half duplex IEEE802.3X
- Automatic identification of MDI/MDI-X cross-line
- High-performance 155Mbps memory bandwidth
- Complies with FCC, 15 CLASS A, ROHS and CE MARK



Application

- Apply to ready to rise to 10 M extended enterprise network bandwidth 100 M
- Apply to images, voice and other multimedia data on an integrated transport network point
- Applies to the computer signal transmission in need of the occasion widely used for computer data transmission network to meet a variety of business needs
- Apply to the campus broadband network, broadcasting network and intelligent residential broadband fiber-to-floor fiber to the home data transfer with the switches and other computer network equipment can be combined to form: -chain, star, ring-type network and other computer networks

Technical Specification

Standard Protocol	IEEE802.3 10 Base-T standard	
	IEEE802.3u 10/100Base-TX/FX standard	
	IEEE 802.3d standard.	
	IEEE 802.3Q standard.	
Band Width	RJ 45 Port: 10/100Mbps	Optical Port: 155Mbps
Operation Mode	Full /Half duplex mode	
Connectors	UTP: RJ-45	Fiber connector: SC/ST/FC
Operation Mode	Full /Half duplex mode	
LED Indicators	POWER, FPL,10/100, FRX, TRX , FDX	
Power Supply	External	DC-48V,DC24V,DC12V,DC5V
	Internal	AC110-250V/50Hz
		DC -32~-72V
	Power Consumption	£5W
Environmental Parameters	Work Temperature	0°C~50°C (32 °F~122 °F)
	Storage Temperature	-40°C~70°C (-40 °F~158 °F)
	Humidity	5%~90% non-condensing
TP Cable	Cat5 UTP cable (the max distance up to 100m)	
Fiber Cable	8. 3/125, 8. 7/125, 9/125, 10/125mm(the max distance up to 20 -120km)	
	50/125, 62.5/125mm(the max distance up to 2km or 5km)	
MTBF (Hours)	>50000	
Dimensions(mm)	External power supply	94mm*70mm*25mm(3.7 *2.8*0.98 inch)
	Internal power supply	140mm*110mm*30mm(5.5 *4.3 *1.2 inch)
	Socket Card	157mm*128mm*31mm(6.2 *5.1*1.2 inch)
Gross Weight	External power supply	0.4 kg
	Internal power supply	0.8kg
	Socket Card	1.0kg

10/100 Dual Fiber Media Converter

Features

- Complies with IEEE 802.3 10 Base-T standard.
- Complies with IEEE 802.3u 10/100 Base-TX/FX standard
- Complies with IEEE 802.3X standard
- 10/100/ Mbps port with full/half duplex auto-negotiation
- Back pressure flow control for full duplex
- Twisted-pair connector: NODE/HUB or SWITCH (5 class UTP)
- Back pressure flow control for full/half duplex IEEE802.3X
- Automatic identification of MDI/MDI-X cross-line
- High-performance 155Mbps memory bandwidth
- Complies with FCC, 15 CLASS A, ROHS and CE MARK



Application

- Apply to ready to rise to 10 M extended enterprise network bandwidth 100 M
- Apply to images, voice and other multimedia data on an integrated transport network point
- Applies to the computer signal transmission in need of the occasion widely used for computer data transmission network to meet a variety of business needs
- Apply to the campus broadband network, broadcasting network and intelligent residential broadband fiber-to-floor fiber to the home data transfer with the switches and other computer network equipment can be combined to form: -chain, star, ring-type network and other computer networks

Technical Specification

Standard Protocol	IEEE802.3 10 Base-T standard	
	IEEE802.3u 10/100Base-TX/FX standard	
	IEEE 802.3d standard.	
	IEEE 802.3Q standard.	
Band Width	RJ 45 Port: 10/100Mbps	Optical Port: 155Mbps
Operation Mode	Full /Half duplex mode	
Connectors	UTP: RJ-45	Fiber connector: SC/ST/FC
Operation Mode	Full /Half duplex mode	
LED Indicators	POWER, FPL,10/100, FRX, TRX , FDX	
Power Supply	External	DC-48V,DC24V,DC12V,DC5V
	Internal	AC110-250V/50Hz
		DC -32~-72V
	Power Consumption	£5W
Environmental Parameters	Work Temperature	0°C~50°C (32°F~122°F)
	Storage Temperature	-40°C~70°C (-40°F~158°F)
	Humidity	5%~90% non-condensing
TP Cable	Cat5 UTP cable (the max distance up to 100m)	
Fiber Cable	8. 3/125, 8. 7/125, 9/125, 10/125mm (the max distance up to 20 -120km)	
	50/125, 62. 5/125mm (the max distance up to 2km or 5km)	
MTBF (Hours)	>50000	
Dimensions(mm)	External power supply	94mm*70mm*25mm(3.7 *2.8*0.98 inch)
	Internal power supply	140mm*110mm*30mm(5.5 *4.3 *1.2 inch)
	Socket Card	157mm*128mm*31mm(6.2 *5.1*1.2 inch)
Gross Weight	External power supply	0.4 kg
	Internal power supply	0.8kg
	Socket Card	1.0kg

10/100/1000M Single Fiber Media Converter

Features

- Complies with IEEE 802.3 10 Base-T standard.
- Complies with IEEE 802.3u 10/100 Base-TX/FX standard
- Complies with IEEE 802.3X standard
- 10/100/ 1000 Mbps port with full/half duplex auto-negotiation
- Back pressure flow control for full duplex
- Converter mode with auto-change-forward(Switch)function
- Back pressure flow control for full/half duplex IEEE802.3X
- Automatic identification of MDI/MDI-X cross-line
- High-performance 1.25Gbps memory bandwidth
- Complies with FCC, 15 CLASS A, ROHS and CE MARK



Application

- Apply to ready to rise to 1000 M extended enterprise network up to 120 km
- Apply to images, voice and other multimedia data on an integrated transport network point
- Applies to the computer signal transmission in need of the occasion widely used for computer data transmission network to meet a variety of business needs
- Apply to the campus broadband network, broadcasting network and intelligent residential broadband fiber-to-floor fiber to the home data transfer with the switches and other computer network equipment can be combined to form: -chain, star, ring-type network and other computer networks

Technical Specification

Standard Protocol	IEEE802.3 10 Base-T standard		
	IEEE802.3u 10/100Base-TX/FX standard		
	IEEE802.1 q, IEEE802.1 p QoS,		
	IEEE802.1 d Spanning Tree		
	IEEE 802.3z standard		
	IEEE 802.3ab standard		
Band Width	RJ 45 Port:10/100/1000Mbps	Optical Port: 1.25Gbps	
Operation Mode	Full /Half duplex mode		
Connectors	UTP: RJ-45	Fiber connector: SC/ST/FC	
Operation Mode	Full /Half duplex mode		
LED Indicators	POWER, FPL,10/100, FRX, TRX , FDX		
Power Supply	External	DC5V 2A	
	Internal	AC110-250V/50Hz	
		DC -32~-72V	
Power Consumption	£5W		
Environmental Parameters	Work Temperature	0°C~50°C (32°F ~ 122°F)	
	Storage Temperature	-40°C~70°C (-40°F ~ 158°F)	
	Humidity	5%~90% non-condensing	
TP Cable	Cat5 UTP cable (the max distance up to 100m)		
Fiber Cable	8. 3/125, 8. 7/125, 9/125, 10/125mm (the max distance up to 20 -120km)		
	50/125, 62. 5/125mm (the max distance up to 2km or 5km)		
MTBF (Hours)	>50000		
Dimensions(mm)	External power supply	94mm*70mm*25mm(3.7 *2.8*0.98 inch)	
	Internal power supply	140mm*110mm*30mm(5.5 *4.3 *1.2 inch)	
	Socket Card	157mm*128mm*31mm(6.2 *5.1*1.2 inch)	
Gross Weight	External power supply	0.4 kg	
	Internal power supply	0.8kg	
	Socket Card	1.0kg	

10/100/1000M Dual Fiber Media Converter

Features

- Provide one fiber connector and one UTP connector
- Fully complies with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.2ab 1000Base-TX, IEEE802.3z 1000Base-FX standard
- Auto-detection of half/full duplex transfer mode for TX port
- Auto-negotiation of 10/100/1000Mbps rate and Auto-MDI/MDIX for TX port
- Provide switch configuration of half/full duplex transfer mode for FX port
- Extend fiber distance up to 2km for multi-mode fiber and 20km for single-mode fiber
- Compact size for easy installation and working with Media Chassis
- Choice of fiber-connector from SC, LC and WDM, multi-mode / single-mode fiber for 1 000Base SFP interface
- Easy-to-view LED indicators provides status to easily monitor network activity Internal power supply
- 1000Base-SX: 50/125mm or 62.5/125mm multi-mode fiber cable, up to 220/550m
- 1000Base-T: 2-pair Cat. 5/5e/6 UTP cable, up to 100 meters
- Back pressure flow control for full duplex IEEE802.3 X and half duplex.



Technical Specification

Standard Protocol	IEEE802.3 10 Base-T standard	
	IEEE802.3u 10/100Base-TX/FX standard	
	IEEE802.1 q, IEEE802.1 p QoS,	
	IEEE802.1 d Spanning Tree	
	IEEE 802.3z standard	
	IEEE 802.3ab standard	
Band Width	RJ 45 Port:10/100/1000Mbps	Optical Port: 1.25Gbps
Operation Mode	Full /Half duplex mode	
Connectors	UTP: RJ-45	Fiber connector: SC/ST/FC
Operation Mode	Full /Half duplex mode	
LED Indicators	POWER, FPL,10/100, FRX, TRX , FDX	
Power Supply	External	DC5V 2A
	Internal	AC110-250V/50Hz
		DC -32~-72V
Power Consumption	£5W	
Environmental Parameters	Work Temperature	0°C~50°C (32°F ~ 122°F)
	Storage Temperature	-40°C~70°C (-40°F ~ 158°F)
	Humidity	5%~90% non-condensing
TP Cable	Cat5 UTP cable (the max distance up to 100m)	
Fiber Cable	8. 3/125, 8. 7/125, 9/125, 10/125mm (the max distance up to 20 -120km)	
	50/125, 62. 5/125mm (the max distance up to 2km or 5km)	
MTBF (Hours)	>50000	
Dimensions(mm)	External power supply	94mm*70mm*25mm(3.7 *2.8*0.98 inch)
	Internal power supply	140mm*110mm*30mm(5.5 *4.3 *1.2 inch)
	Socket Card	157mm*128mm*31mm(6.2 *5.1*1.2 inch)
Gross Weight	External power supply	0.4 kg
	Internal power supply	0.8kg
	Socket Card	1.0kg

10/100/1000M 4 RJ45 ports+
2 Fiber ports Ethernet optical transceiver



Features

- In conformity to IEEE 802.3 10 Base-T standard. In conformity to IEEE 802.3u 100 Base-TX, IEEE802.3z, IEEE802.3ab standard.
- Built in high efficiency SRAM for packet buffer, with 1K-entry look up table and 4-way associative hash algorithm.
- Half duplex: back pressure flow control
- Full duplex: IEEE802.3x flow control
- Automatic identification of MDI/MDI-X cross line.
- In conformity to safety code of FCC and 15 CLASS A and CE MARK.

Technical Specification

- Standard Protocol: IEEE802.3 10 Base-T standard
- IEEE 802.3u 100Base-TX and IEEE802.3z standard
- Connector: Two UTP RJ-45 connector, two SC/ST connector
- Operation mode: full duplex mode or half duplex mode
- Power supply parameter:
- Power line (External): 110-265V AC; Power Adapter 5V 1A DC
- Environmental temperature: -20°C — 70 °C
- Relative humidity: 5%-90%
- TP cable: Cat5 UTP cable
- Transfer fiber:
- multi-mode: 50/125, 62.5/125 or 100/140 mm
- single mode: 8.3/125, 8.7/125, 9/125 or 10/125 mm

Dimension

- Power external: 1 85mm(L)x 112mm(W) x 35mm(H)

fiber media converter 14 slot 2U
rack mount chassis



Features

- Versatile chassis for multiple converter installations
- Fourteen/Sixteen front panel slots for FHC Media Converters
- 19" Rack Mount
- Optional redundant power supply
- Plug and Play Operation
- LED Indication for Primary and Secondary Power Supplies
- LED Indication for Converters
- Metal Case

Available converter modules

- Gigabit ethernet 1000Base-T to 1000Base-SX/LX converter (multimode and single mode)
- 100Base-TX to 100Base-FX (SC/ST or FC) converter (multimode and single mode)
- N-Way 10/100Base-TX to 100Base-FX (SC/ST or FC) converter (multimode and single mode)
- 1000Base-SX (single mode/SC) to 1000Base-SX (multimode/SC) converter
- 100Base-FX (single mode/SC) to 100Base-FX (multimode/SC) converter
- 10Base-T (STP) to 10Base-FL (ST) converter (multimode and single mode)
- 10/100Base-TX to 100Base-FX 2 wavelength WDM switch converter
- The 2U-Chassis is a versatile, flexible and cost effective solution for fiber conversion installations particularly when many fibers are terminated in one 1 9-inch rack

Specification

- Diagnostic LED: MB, MN
- Safety Standards: UL, CSA, FCC Part 15 Class B, CE
- Number of Ports: 14 slots for Series media converter
- Dimension: 294x 283 x 100 mm (WxDxH)
- Weight: 5 Kg (Net Weight)
- Power input:100-240V, 150W, 50-60Hz
- Redundant Power(Optional) Input:100-240V, 150W, 50-60Hz
- Operating Temperature: 0°C - +50°C
- Storage Temperature: -40°C - +70°C
- Humidity: 5 - 90% non condensing

16 Slot fiber media converter rack chassis 19" 2U



Features

- Versatile chassis for multiple converter installations
- Fourteen/Sixteen front panel slots for FHC Media Converters
- 19" Rack Mount
- Optional redundant power supply
- Plug and Play Operation
- LED Indication for Primary and Secondary Power Supplies
- LED Indication for Converters
- Metal Case

Available converter modules

- Gigabit ethernet 1 000Base-T to 1 000Base-SX/LX converter (multimode and single mode)
- 100Base-TX to 100Base-FX (SC/ST or FC) converter (multimode and single mode)
- N-Way 10/100Base-TX to 100Base-FX (SC/ST or FC) converter (multimode and single mode)
- 1000Base-SX (single mode/SC) to 1000Base-SX (multimode/SC) converter
- 100Base-FX (single mode/SC) to 100Base-FX (multimode/SC) converter
- 10Base-T (STP) to 10Base-FL (ST) converter (multimode and single mode)
- 10/100Base-TX to 1 000Base-FX 2 wavelength WDM switch converter
- The 2U-Chassis is a versatile, flexible and cost effective solution for fiber conversion installations particularly when many fibers are terminated in one 19-inch rack

Specification

- Diagnostic LED: MB, MN
- Safety Standards: UL, CSA, FCC Part 15 Class B, CE
- Number of Ports: 14 slots for Series media converter
- Dimension: 294x 283 x 100 mm (WxDxH)
- Weight: 5 Kg (Net Weight)
- Power input: 100-240V, 150W, 50-60Hz
- Redundant Power(Optional) input: 100-240V, 150W, 50-60Hz
- Operating Temperature: 0°C - +50°C
- Storage Temperature: -40°C - +70°C
- Humidity: 5 - 90% non condensing

Video Converter

2 Channels Fiber Optic Video Converter single mode 20/40/60km

Features

- 10-digit coding and non-compression video transmission;
- Automatically reply for overloading protection;
- Status indicating;
- No electromagnetic, frequency and ground current interference;
- Surface mounted technology;
- Advanced auto-adaptive technology avoiding on-site electric or optical adjustment;
- LED status indicating the operation of the surveillance.



Application

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Public Security Surveillance
- High Way & Toll Station Surveillance
- High Quality Video Conference
- Industrial Closed Circuit Television Surveillance
- TV-live ,audio, phone, Ethernet, transmission

Specification

Video Specification				
Port	2			
Video interface	BNC			
Video in/output impedance	75V			
Video in/output voltage	(typical)1.0Vp-p/max 1.5Vp-p			
Bandwidth	5-8MHz			
Differential gain				
Differential phase	<0.6°			
SNR	/ 68dB			
Field gradient	<0.5%			
Data Characteristics				
Physical connector	phoenix contact (DATA)			
Data connector	RS-485/422,RS232			
Channels of data	forward and reverse path data multi-channels			
Interface port	Industrial standard interface port			
Environment Specification				
Working temperature(°C)	-30~+75			
Storage temperature(°C)	-40~+85			
Relative humidity	0~95%			
Optical Budget				
Fiber type	MM	SM	SM	SM
Budget	20dBm	20dBm	22dBm	25dBm
Transmission Distance	2km	20km	40km	60km
Other Specification				
Dimension(mm)	143x107x28			
Input rating voltage	AC220V/50Hz			
Power supply	DC 5V/2A			
Power	£5W			
Sampling rate	15MHZ			
MTBF	/ 100,000h			

Fiber Optic Video Converter 16 Channels 20km

Features

- 10-digit coding and non-compression video transmission;
- Automatically reply for overloading protection;
- Status indicating;
- No electromagnetic, frequency and ground current interference;
- Surface mounted technology;
- Advanced auto-adaptive technology avoiding on-site electric or optical adjustment;
- LED status indicating the operation of the surveillance.



Application

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Public Security Surveillance
- High Way & Toll Station Surveillance
- High Quality Video Conference
- Industrial Closed Circuit Television Surveillance
- TV-live ,audio, phone, Ethernet, transmission

Specification

Video Specification				
Port	16			
Video interface	BNC			
Video in/output impedance	75V			
Video in/output voltage	(typical)1.0Vp-p/max 1.5Vp-p			
Bandwidth	5-8MHz			
Differential gain				
Differential phase	<0.6°			
SNR	/ 68dB			
Field gradient	<0.5%			
Data Characteristics				
Physical connector	phoenix contact (DATA)			
Data connector	RS-485/422,RS232			
Channels of data	forward and reverse path data multi-channels			
Interface port	Industrial standard interface port			
Environment Specification				
Working temperature(°C)	-30~+75			
Storage temperature(°C)	-40~+85			
Relative humidity	0~95%			
Optical Budget				
Fiber type	MM	SM	SM	SM
Budget	20dBm	20dBm	22dBm	25dBm
Transmission Distance	2km	20km	40km	60km
Other Specification				
Dimension(mm)	490x255x45			
Input rating voltage	AC220V/50Hz			
Power supply	DC 5V/5A			
Power	E 20W			
Sampling rate	15MHZ			
MTBF	/ 100,000h			

Fiber Optic Video Converter 8 Channels 20km

Features

- 10-digit coding and non-compression video transmission;
- Automatically reply for overloading protection;
- Status indicating;
- No electromagnetic, frequency and ground current interference;
- Surface mounted technology;
- Advanced auto-adaptive technology avoiding on-site electric or optical adjustment;
- LED status indicating the operation of the surveillance.



Application

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Public Security Surveillance
- High Way & Toll Station Surveillance
- High Quality Video Conference
- Industrial Closed Circuit Television Surveillance
- TV-live ,audio, phone, Ethernet, transmission

Specification

Video Specification				
Port	8			
Video interface	BNC			
Video in/output impedance	75V			
Video in/output voltage	(typical)1.0Vp-p/max 1.5Vp-p			
Bandwidth	5-8MHz			
Differential gain				
Differential phase	<0.6°			
SNR	/ 68dB			
Field gradient	<0.5%			
Data Characteristics				
Physical connector	phoenix contact (DATA)			
Data connector	RS-485/422,RS232			
Channels of data	forward and reverse path data multi-channels			
Interface port	Industrial standard interface port			
Environment Specification				
Working temperature(°C)	-30~+75			
Storage temperature(°C)	-40~+85			
Relative humidity	0~95%			
Optical Budget				
Fiber type	MM	SM	SM	SM
Budget	20dBm	20dBm	22dBm	25dBm
Transmission Distance	2km	20km	40km	60km
Other Specification				
Dimension(mm)	176x176x47			
Input rating voltage	AC220V/50Hz			
Power supply	DC 5V/2A			
Power	£ 10W			
Sampling rate	15MHZ			
MTBF	/ 100,000h			

1 Channel Fiber Optic Video Converter single mode, 20/40/60km

Features

- 10-digit coding and non-compression video transmission;
- Automatically reply for overloading protection;
- Status indicating;
- No electromagnetic, frequency and ground current interference;
- Surface mounted technology;
- Advanced auto-adaptive technology avoiding on-site electric or optical adjustment;
- LED status indicating the operation of the surveillance.



Application

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Public Security Surveillance
- High Way & Toll Station Surveillance
- High Quality Video Conference
- Industrial Closed Circuit Television Surveillance
- TV-live ,audio, phone, Ethernet, transmission

Specification

Video Specification				
Port	1			
Video interface	BNC			
Video in/output impedance	75V			
Video in/output voltage	(typical)1.0Vp-p/max 1.5Vp-p			
Bandwidth	5-8MHz			
Differential gain				
Differential phase	<0.6°			
SNR	/ 68dB			
Field gradient	<0.5%			
Data Characteristics				
Physical connector	phoenix contact (DATA)			
Data connector	RS-485/422,RS232			
Channels of data	forward and reverse path data multi-channels			
Interface port	Industrial standard interface port			
Environment Specification				
Working temperature(°C)	-30~+75			
Storage temperature(°C)	-40~+85			
Relative humidity	0~95%			
Optical Budget				
Fiber type	MM	SM	SM	SM
Budget	20dBm	20dBm	22dBm	25dBm
Transmission Distance	2km	20km	40km	60km
Other Specification				
Dimension(mm)	133x107x28			
Input rating voltage	AC220V/50Hz			
Power supply	DC 5V/1A			
Power	£5W			
Sampling rate	15MHZ			
MTBF	/ 100,000h			

1310/1490/1550 Filter Wavelength Division Multiplexer (FWDM)

Features

- Wide Operating Wavelength Range
- Low Insertion Loss
- Ultra Flat Wide Passband
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Application

- Testing Instruments
- FTTH Tri-Play System



Performance Specification

Parameter		FWDM 4/35	FWDM 5/34	FWDM 34/5
Pass Band Wavelength Range (nm)		1480~1500	1540~1560	1260~1360&1480~1500
Reflection Band 1 Wavelength Range (nm)		1260~1360	1260~1360	1540~1560
Reflection Band 2 Wavelength Range (nm)		1540~1560	1480~1500	
Insertion loss (dB)	Reflect Channel	≤0.6		
	Pass Channel	≤0.8		
Pass Band Rippler (dB)		<0.3		
Isolation	Reflect Channel	>15		
	Pass Channel	>30		
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005		
Polarization Dependent Loss (dB)		<0.1		
Polarization Mode Dispersion (ps)		<0.1		
Directivity (dB)		>50		
Return loss (dB)		>50		
Maximum Power Handling (mW)		1000		
Operating Temperature (°C)		-20~+80		
Storage Temperature (°C)		-40~+85		
Package Dimension (mm)		F5.5x34 (L38 for 900um Loose tube)		

Multimode 1310/1550nm Filter Wavelength Division Multiplexer (MM FWDM)

Features

- Wide Operating Wavelength Range
- Low Insertion Loss
- Ultra Flat Wide Passband
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Application

- System Monitoring
- WDM Network
- Transmitters and Fiber lasers
- Fiber Optical amplifier
- Fiber optic Instruments



Performance Specification

Parameter		Specification
Pass Band Wavelength Range (nm)		1500 ~ 1600 (or 1260 ~ 1360)
Reflection Band Wavelength Range (nm)		1260 ~ 1360 (or 1500~1600)
Insertion loss (dB)	Reflect Channel	≤0.5
	Pass Channel	≤0.6
Isolation (dB) Reflect Channel		<0.3
Isolation	Reflect Channel	>15
	Pass Channel	>40
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005
Polarization Dependent Loss (dB)		<0.1
Polarization Mode Dispersion (ps)		<0.1
Directivity (dB)		>50
Return loss (dB)		>50
Maximum Power Handling (mW)		500
Operating Temperature (°C)		-20~+80
Storage Temperature (°C)		-40~+85
Package Dimension (mm)		F5.5x34 (L38 for 900um Loose tube)

CWDM

1 x2 CWDM Device (3 port)

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Application

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Access Network



Performance Specification

Parameter		Specification
Channel Wavelength (nm)		1260 ~ 1620
Center wavelength Accuracy (nm)		±0.5
Channel Spacing (nm)		20
Channel Passband (@-0.5dB bandwidth (nm)		>13
Pass Channel Insertion Loss (dB)		£0.6
Reflection Channel Insertion Loss (dB)		£0.4
ChannelRipple (dB)		<0.3
Isolation loss (dB)	Adjacent	>30
	Non-adjacent	>40
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005
Wavelength Temperature Shifting (nm/°C)		<0.002
Polarization Dependent Loss (dB)		<0.1
Polarization Mode Dispersion		<0.1
Directivity (dB)		>50
Return Loss(dB)		>45
Maximum Power Handling (mW)		300
Operating Temperature (°C)		-25~+75
Storage Temperature (°C)		-40~85
Package dimension (mm)		F5.5x34 (L38 for 900um Loose tube)

CWDM Mux Demux Module Packed in ABS Box

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path
- Access Network

Application

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Access Network



Performance Specification

Parameter	4 Channel		8 Channel		16 Channel		
	Mux	Demux	Mux	Demux	Mux	Demux	
Channel Wavelength (nm)	1270-1610						
Center wavelength Accuracy (nm)	±0.5						
Channel Spacing (nm)	20						
Channel Passband (@-0.5dB bandwidth (nm)	>13						
Insertion Loss (dB)	£ 1.6		£ 2.5		£ 4.5		
Channel Uniformity (dB)	£ 1.6		£ 1.0		£ 1.5		
Channel Ripple (dB)	0.3						
Isolation loss (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)	<0.005						
Wavelength Temperature Shifting (nm/°C)	<0.002						
Polarization Dependent Loss (dB)	<0.1						
Polarization Mode Dispersion	<0.1						
Directivity (dB)	>50						
Return Loss(dB)	>45						
Maximum Power Handling (mW)	300						
Operating Temperature (°C)	-5~ +75						
Storage Temperature (°C)	-40~85						
Package dimension (mm)	L100 x W80 x H10			L142 x W102 x H14.5			

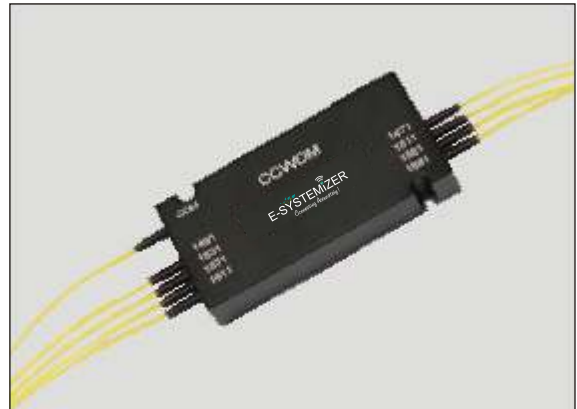
Mini CWDM Mux/ Demux module

Features

- Mini Size
- High Reliability
- Low Insertion Loss and Better Uniformity
- Ultra High Thermal Stability
- Epoxy-Free in Optical Path
- ROHS Compliant

Application

- CWDM System
- CATV System
- Network upgrading



Specification

Parameter		Unit	Values			
Channel Number		CH	4	8	8(+E1)	8(+E2)
Central Wavelength		nm	1270, 1290...1610 or 1271, 1291...1611			
Passband	Channels	Min.	+/-6.5			
	Upgrade port	Min.			1310+/-50	1260-1457
Isolation	Mux	Adjacent Channel	Min.	30		
		Non-adjacent Channel	Min.	40		
		Upgrade port	Min.	15		
	Demux	Adjacent Channel	Min.	30		
		Non-adjacent Channel	Min.	40		
		Upgrade port	Min.	15		
Insertion Loss	Channels	Max.	1.0	1.5	1.6	1.8
	Upgrade port	Max.			1.2	1.2
Ripple in Passband		Max.	dB			
Directivity		Min.	dB			
Polarization Dependent Loss		Max	dB			
Polarization Mode Dispersion		Max	ps			
Return Loss		Min.	dB			
Fiber Type		Corning SMF-28 with 900mm loose tube				
Fiber Length		m	1.0+/-0.1			
Power Handling		Max	mW			
Operating Temperature		°C	-10~70			
Storage Temperature		°C	-40~85			
Package Dimension		mm	(L)60x(W)29x(H)10			

All specifications include the effect of operating temperature and all states of polarization. Values referenced without connectors and insertion loss for a connector-pair is 0.20dB (typ.) and 0.30dB (max.). Fiber length includes rubber boot and excludes the connector.

8+1 -CH Coarse Wavelength Division Multiplexer (CWDM Mux/ Demux) Module

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path
- Access Network

Application

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Access Network



Performance Specification

Parameter	8+1-CH Mux	8+1-CH Demux
Channel Wavelength (nm)	1 270-1 610 or 1271-1611	
Center Wavelength Accuracy (nm)	± 0.05	
Channel Spacing (GHz)	20	
Channel Passband (@-0.5dB bandwidth (nm)	>13	
Insertion Loss (dB) (Without skip component)	* 2.8	
Insertion Loss (dB) (With skip component)	* 2.0	
Channel Uniformity (dB)	* 0.6	
Channel Ripple (dB)	* 0.3	
Isolation loss (dB)	Adjacent] 30
	Non-adjacent] 40
] 12
Insertion Loss Temperature Sensitivity (dB/°C)	* 0.005	
Wavelength Temperature Shifting (nm/°C)	* 0.002	
Polarization Dependent Loss (dB)	* 0.1	
Polarization Mode Dispersion	* 0.1	
Directivity (dB)] 50	
Return Loss(dB)] 45	
Maximum Power Handling (mW)	300	
Operating Temperature (°C)	-5 ~ +75	
Storage Temperature (°C)	-40 ~ +85	
Package dimension (mm)	L100 X W80 X 10	

Note: All parameters are for device without connectors.

4, 8, 16, 18-Channel CWDM OADM Module

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path
- Access Network

Application

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Access Network



Performance Specification

Parameter	4 Channel		8 Channel		16 Channel		
	Mux	Demux	Mux	Demux	Mux	Demux	
Channel Wavelength (nm)	1270~1610						
Center wavelength Accuracy (nm)	±0.5						
Channel Spacing (nm)	20						
Channel Passband (@-0.5dB bandwidth (nm)	>13						
Insertion Loss (dB)	£ 1.6		£ 2.5		£ 4.5		
Channel Uniformity (dB)	£ 1.6		£ 1.0		£ 1.5		
Channel Ripple (dB)	0.3						
Isolation loss (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)	<0.005						
Wavelength Temperature Shifting (nm/°C)	<0.002						
Polarization Dependent Loss (dB)	<0.1						
Polarization Mode Dispersion	<0.1						
Directivity (dB)	>50						
Return Loss(dB)	>45						
Maximum Power Handling (mW)	300						
Operating Temperature (°C)	-5~ +75						
Storage Temperature (°C)	-40~85						
Package dimension (mm)	L100 x W80 x H10			L142 x W102 x H14.5			

DWDM

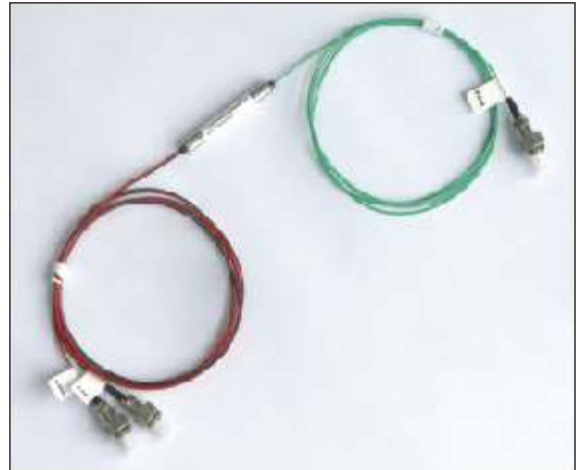
100G, 200G DWDM Optical Add-Drop Multiplexer (1x2 DWDM OADM)

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Application

- Channel Add/Drop
- DWDM Network
- Wavelength Routing
- Fiber Optical amplifier
- CATV fiber optic System



Performance Specification

Parameter		MUX/DEMUX	
Channel Wavelength (nm)		ITU Grid	
Center wavelength Accuracy (nm)	±0.5	0.1	
Channel Spacing (Ghz)	100	200	
Channel Passband (@-0.5dB bandwidth (nm)	>0.22	>0.5	
Pass Channel Insertion Loss (dB)	£ 1.0	£ 0.9	
Reflection Channel Insertion Loss (dB)	£ 0.6	£ 0.6	
Channel Ripple (dB)		<0.3	
Isolation loss (dB)	Adjacent	>30	
	Non-adjacent	>40	
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005	
Wavelength Temperature Shifting (nm/°C)		<0.002	
Polarization Dependent Loss (dB)		<0.1	
Polarization Mode Dispersion		<0.1	
Directivity (dB)		>50	
Return Loss(dB)		>45	
Maximum Power Handling (mW)		500	
Operating Temperature (°C)		-10~+75	
Storage Temperature (°C)		-40~85	
Package dimension (mm)		F 5.5x34 (L38 for 900um Loose tube)	

100GHz Dense Wavelength Division Multiplexer (DWDM Module 4,8,16 Channel)

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Application

- Channel Add/Drop
- DWDM Network
- Wavelength Routing
- Fiber Optical Amplifier
- CATV fiber optic System



Performance Specification

Parameter	4 Channel		8 Channel		16 Channel		
	Mux	Demux	Mux	Demux	Mux	Demux	
Channel Wavelength (nm)	ITU 100GHz Grid						
Center wavelength Accuracy (nm)	±0.1						
Channel Spacing (nm)	100						
Channel Passband (@-0.5dB bandwidth (nm)	>.25						
Insertion Loss (dB)	£ 1.8		£ 3.7		£ 5.5		
Channel Uniformity (dB)	£ 0.6		£ 1.0		£ 1.5		
Channel Ripple (dB)	0.3						
Isolation loss (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)	<0.005						
Wavelength Temperature Shifting (nm/°C)	<0.002						
Polarization Dependent Loss (dB)	<0.1		<0.1		<0.5		
Polarization Mode Dispersion	<0.1						
Directivity (dB)	>50						
Return Loss(dB)	>45						
Maximum Power Handling (mW)	300						
Operating Temperature (°C)	-5~ +75						
Storage Temperature (°C)	-40~85						
Package dimension (mm)	L100 x W80 x H10			L142 x W102 x H14.5			

100,200G DWDM OADM Module (4, 8 Channel)

Features

- ITU channel spacing
- Low insertion loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path
- Access Network

Application

- Channel Add/Drop
- DWDM Network
- Wavelength Routing
- Fiber Optical amplifier
- CATV fiber optic System



Performance Specification

Parameters		4 Channel		8 Channel	
		Add	Drop	Add	Drop
Channel Wavelength (nm)		ITU Grid			
Center wavelength Accuracy (nm)		+0.05 (100G) / ±0.1(200G)			
Channel Spacing (GHz)		100			
Channel Passband (@-0.5dB bandwidth (nm))		>0.22 (100G) / >0.5(200G)			
Insertion loss (dB)	In—Drop@drop	2.0		3.2	
	Add---Out@add	2.0		3.2	
	In---out @other	2.5		5.0	
Add/Drop Channel Ripple (dB)		<0.3			
Isolation @Add/ /Drop Channel	Adjacent	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005			
Wavelength Temperature Shifting (nm/°C)		<0.002			
Polarization Dependent Loss (dB)		<0.1			
Polarization Mode Dispersion		<0.1			
Directivity (dB)		>50			
Return Loss(dB)		>45			
Maximum Power Handling (mW)		500			
Operating Temperature (°C)		-10~+75			
Storage Temperature (°C)		-40~85			
Package dimension (mm)		L100 x W80 x H10			

100G DWDM N-CH Packed in 19-in 1U Rack mount

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path



Application

- Channel Add/Drop
- DWDM Network
- Wavelength Routing
- Fiber Optical Amplifier
- CATV fiber optic System



Performance Specification

Parameter	4 Channel		8 Channel		16 Channel		
	Mux	Demux	Mux	Demux	Mux	Demux	
Channel Wavelength (nm)	ITU 100GHz Grid						
Center wavelength Accuracy (nm)	±0.1						
Channel Spacing (nm)	100						
Channel Passband (@-0.5dB bandwidth (nm)	>.25						
Insertion Loss (dB)	£ 1.8		£ 3.7		£ 5.5		
Channel Uniformity (dB)	£ 0.6		£ 1.0		£ 1.5		
Channel Ripple (dB)	0.3						
Isolation loss (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)	<0.005						
Wavelength Temperature Shifting (nm/°C)	<0.002						
Polarization Dependent Loss (dB)	<0.1		<0.1		<0.15		
Polarization Mode Dispersion	<0.1						
Directivity (dB)	>50						
Return Loss(dB)	>45						
Maximum Power Handling (mW)	300						
Operating Temperature (°C)	-5~ +75						
Storage Temperature (°C)	-40~85						
Package dimension (mm)	L100 x W80 x H10			L142 x W102 x H14.5			

**100 Mbps -2.67Gbps
OPTICAL TRANSCEIVER**



SFP (Small Form - Factor Pluggable) optic transceiver modules are designed for use in datacom and telecom optical links, offering a smaller footprint and lower power consumption They are compliant with the SEP MSA, and support up to to2.67Gbps datalink applications such as FE/GE Ethernet, 1/2G FC SAN and OC3~OC48 SONET/STM-1~STM-16 SDH. Digital diagnostics functions are avoidable as specified by the SFPMSA. The transceiver is RoHS compliant and lead-free.

Application

- FE/GE Ethernet
- 1/2G FC SAN
- OC3~OC48 SONET/STM -16 SDH

**100Mbps- 2.67 Gbps
OPTICAL TRANSCEIVER (BiDi & WDM)**



100 Mbps-2.67 Gbps BiDi OPTICAL TRANSCEIVERS ARE designed for use in datacom and telecom optical links, offering bi-direction datalink in single fiber They are compliant with the SFP MSA, and support 100 Mbps-2.67Gbps datalink applications such as FE/GE Ethernet, 1/2G FC SAN and OC3~ OC48 SONET / STM -1~STM-16 SDH. Digital Diagnostics functions are available, as specified by the SFP MSA. The transceiver is RoHS compliant and lead-free.

Application

- FE/GE Ethernet
- 1/2G FC SAN
- OC3~OC48 SONET / STM-1 ~ STM-16 SDH

**8 Gbps OPTICAL TRANSCEIVER
(BiDi & WDM)**



8Gbps -11.1 Gbps WDM OPTICAL TRANSCEIVER are designed for use in datacom and telecom optical links, offering CWDM (1270nm,1290nm..1610nm)/ DWDM (C-BAND 50GHz /100GHz) datalink They are compliant with the SFP + / XFP MSA, and support 8Gbps to 11.1Gbps datalink applications such as 8G ~10G Ethernet,8G~10G FC SAN and OC192 SONET /STM-64 SDH, CPRI wireless. Digital diagnostics functions are available, as specified by the SFP+ / XFP MSA. The transceiver is RoHS compliant and lead-free.

Application

- 1G-10G Ethernet Links
- 1G-10G Fiber Channel
- SONET/SDH
- CPRI

**3.3~6.14 Gbps OPTICAL TRANSCEIVER
" LTE /CPRI/OBSAI (SFP + BiDi WDM)**



6.14Gbps SFP+ /BiDi / WDM optic transceiver modules are designed for use in LTE /CPRI /OBSAI wireless communication systems optical links, offering datalink rate up to 6. 14 Gbps applications such as LTE /CPRI/OBSAI, Support single fiber , multi-rate , asymmetrical rate applications, Digital diagnostics functions are available, as specified by the SFP+MSA The transceiver is RoHS compliant and lead-free.

Application

- LTE
- CPRI
- OBSAI

8Gbps-11.1Gbps
OPTICAL TRANSCEIVER (SFP+)



SFP+ (Small Form-factor Pluggable Plus) optic transceiver modules are designed for use datacom and telecom optical links, offering a smaller footprint and lower power consumption than XFP transceivers They are compliant with the SFP+ MSA, and support up to 10.5Gbps datalink applications such as 1~10G Ethernet ,1~ 10G FC SAN and OC48-OC192 SONET / STM-16~STM-64 SDH, CPRI wireless.Digital diagnostics functions are available , as specified by the SFP+ MSA . The transceiver is RoHS compliant and lead -free.

Application

- 1G -10G Ethernet Links
- 1G -10G Fiber Channel
- SONET/SDH
- CPRI

100Mbps -40 Gbps
COPPER TRANSCEIVER (SFP +/QSFP)



COPPER SFP +/- QSFP transceivers are installed into optical SFP +QSFP slots enabling two or more optical Ethernet ports (10GBase-X , 40GBase-X) to be linked up by short copper cable . These Transceivers are compatible with SFP +/-QSFP MSA. RoHS and lead free

Application

- 10G Ethernet
- 40G Ethernet

8Gbps-11.1Gbps
OPTICAL TRANSCEIVER (XFP)



XFP is a standardized form factor for serial 10 Gb/s fiber optic transceivers . It is protocol - independents and compliant to standards : 10G Ethernet , 8G/10G Fibre channel , SONET OC -192 , SDH STM -64 and OTN G.709 , supporting bit rate from 8G through 11.1G . XFP Transceivers are used in datacom and telecom optical links and offer a smaller footprint and lower power consumption than other 10 Gb/s transponders. Digital diagnostics functions are available, as specified by the XFP MSA . The transceiver is RoHS compliant and lead -free.

Application

- 10G Ethernet Links
- 8G /10G Fiber Channel
- SONET/SDH

100Mbps -40 Gbps
COPPER TRANSCEIVER (SFP)



COPPER SFP RJ 45 transceivers are installed into optical SFP slots enabling an optical Ethernet port (1000Base - T) . They support 1000BASE-T or 10/100/1000. BASE-T Autonegotiation These transceivers are compatible with Gigabit Ethernet and 1000BASE-T standards. RoHS. and lead-free.

Application

- 1000BASE-T GB Ethernet

ANTENNA

INDOOR OMNI DIRECTIONAL ANTENNA

Ceiling Indoor Omni Directional Antenna is suitable for indoor coverage through Repeater distribution network enhancing weak signals in fringe areas. Its low profile makes it an ideal product for ceiling, wall or other unobtrusive mounting installation.

ELECTRICAL SPECIFICATION

➤ Frequency	: 824-960 /1710-2500 MHZ
➤ Gain	: 2.5/4.0 dBi
➤ VSWR	: < 1.3
➤ Polarization	: Vertical
➤ Impedance	: 50 V
➤ Radiation Pattern	: Omni Directional
➤ Horizontal Beam width	: 360°
➤ Vertical Beam width	: 90°
➤ Maximum Input Power	: 100 watts
➤ Connector	: N Type female (Pig - Tail)
➤ Lightning Protection	: Direct ground



MECHANICAL SPECIFICATION

➤ Dimension	: ø 160 x130 (mm)
➤ Weight	: 0.30 Kg (approx)

MATERIAL

➤ Base/Reflector	: Aluminum
➤ Radiator	: Aluminum
➤ Radome	: ABS

MOUNTING

➤ Mounting	: Ceiling Mountable
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Grouting and screws are provided with antenna.

INDOOR PANEL ANTENNA (7.5DBI)

Panel Antenna is intended for use in point to point or point to multi point communication applications. These Antennas are compact in size with excellent performance and can be easily installed in door environments

ELECTRICAL SPECIFICATION

➤ Frequency	: 824-960/170-2500 MHz
➤ Gain	: 2.5 /4.0 dBi
➤ VSWR	: < 1.3
➤ Polarization	: Vertical
➤ Impedance	: 50 V
➤ Rotation Pattern	: Directional
➤ Horizontal Beam With	: 90°±5°
➤ Vertical Back Ratio	: 65°±5°
➤ Front to Back Ratio	: > 15db
➤ Maximum Input Power	: 100 watts
➤ Connector	: N Type female (Pig -Tail)
➤ Lightning Protection	: Direct ground

MECHANICAL SPECIFICATION

➤ Dimension	: (177x 152x46)mm
➤ Weight	: 0.40 Kg

MATERIAL

➤ Base/Reflector	: Aluminum
➤ Radiator	: Aluminum
➤ Radome	: ABS

MOUNTING

➤ Mounting	: Wall Mountable
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Grouting and screws are provided with antenna.



LIGHTNING SURGE ARRESTORS

Lightning Surge Arrestors : Lightning strike by lightning means a test to the radio equipment. Perhaps in a few microseconds instant, the voltage of surge can be as high as the dozens kilovolt/meter. The whole system will load enormous, and bring the damage to the equipment as a consequence. Our company produces arresters will meet the requirement of switching voltage. It is an essential selection and a safe-guard accessory when build the base station. Correct exertion is a guarantee to the high-efficient system.

TECHNICAL CHARACTERISTICS

➤ Characteristic Impedance	: 50V
➤ Frequency Range	: 800~2200MHz
➤ Insertion loss	: <0.2dB
➤ Surge Current	: 30kA(8/20 s)
➤ Voltage Standing Wave Ratio	: <1.5
➤ Temp. range	: -40~ +85°
➤ Connector	: 7/16M-To-7/16F NM-To NF 7/16F-TO-7/16F



MATERIAL & PLATING

➤ Body	: Brass
➤ Contact Pin	: Brass
➤ Elastic Contact	: Beryllium Bronze
➤ Insulator	: PTFE
➤ Other Conductor	: Brass
➤ O-ring Sealing	: Silastic rubber

JUMPER CABLE SERIES

TYPE OF JUMPER CABLE 1/4", 1/2"

Purpose : Used for connection between Antenna and Feeder Cable, connecting between Cabinet and Feeder cable.

Feature : Low Loss, Low VSWR with Reliable Connection, Flexibility, Convenient for Installation.

Jumpers : Cables are available for different types of connection interfaces and customized lengths as per customer requirement

ELECTRICAL SPECIFICATION

➤ Type of Jumper Cable	: 1/4" / 1/2" low Loss Jumper
➤ Frequency Range	: (800-2500)MHz
➤ Return Loss	: Better than 20dB
➤ Impedance	: 50 V
➤ Connection Cables	: Din-type (7/16)/N-type



INSERTION LOSS

➤ Frequencies (MHz)	: Attenuation (dB/100M) 1/4" / 1/2"
➤ 800MHz	: 12.72 dB / 6.35 dB
➤ 900MHz	: 13.55 dB/6.75 dB
➤ 1000MHz	: 14.35 dB/ 7.20 dB
➤ 1800MHz	: 19.70 dB/9.90 dB
➤ 2000MHz	: 20.90 dB/ 10.50 dB
➤ 2200MHz	: 21.80dB/11.10dB
➤ 2400MHz	: 23.00 dB/ 11.60 dB
➤ 2500MHz	: 23.60 dB/11.95 dB

RF Coaxial Connector Series

THE 7/16 DIN TYPE CONNECTORS

The 7/16 DIN type connectors has a thread joining structure, Its characteristics are large power and capacity, low voltage standing wave ratio , high performance of third-order inter modulation and good air tightness. It can be used in the system of broadcast and television antenna, jumper connecting and microwave communication system.

TECHNICAL CHARACTERISTICS

- Temperature : -40 ~ +85°C
- Relative Humidity : <95%
- Atmospheric Pressure : 70~106KPa
- Characteristic : 50 V
- Frequency Range : DC~7.5GHz
- Working Voltage : 1500V
- Withstanding : 4000V
- Insulation Resistance : 10000M V

Contact Resistance

- Outer Conductor : 0.2m V
- Center Conductor : 0.4m V

Voltage Standing Wave Ratio

- Straight : <1.10 (<2.2GHz)
- Right Angle : <1.15 (<2.2GHz)
- Intermodulation 3rd order at 2x20w : -150dBc
- Insertion loss : 0.08dB(2.5GHzmax)
- Durability (Mating) : >500 (cycles)



MATERIAL & PLATING

- Outer Contact : Brass
- Contact Pin : Brass
- Socket : Beryllium or tin brass
- Elastic Contact : Beryllium or tin brass
- Insulator : PTFE
- Fastening : Brass or Metal alloy
- O-ring Sealing : Silastic

N TYPE COAXIAL CONNECTORS

TECHNICAL CHARACTERISTICS

- Temperature : -40~ +85°C
- Relative Humidity : <95%
- Atmospheric Pressure : 70~ 106KPa
- Characteristic : 50 V
- Frequency Range : DC-11GHz
- Working Voltage : 1000V
- Withstanding : 2500V
- Insulation Resistance : 5000M V

Connector Resistance

- Outer Conductor : 0.2m V
- Center Conductor : 1m V

Voltage Standing Wave Ratio

- Straight : <1.10 (<2.2GHz)
- Right Angle : <1.15 (<2.2GHz)
- Durability (Mating) : >500 (cycles)



RF Coaxial Connector Series

SMA TYPE COAXIAL CONNECTORS

TECHNICAL CHARACTERISTICS

- Characteristic : 50 V
- Frequency Range : 0~12.4 GHz
- Working Voltage : 330V
- Withstanding : 1000V
- Insulation Resistance : >5000M V

Contact Resistance

- Outer Conductor : <0.2m V
- Center Conductor : <3m V

Voltage Standing Wave Ratio

- Straight : <1.10 (<2.2GHz)
- Right Angle : <1.15 (<2.2GHz)
- Insertion Loss : <0.15dB(6GHz)



TNC TYPE COAXIAL CONNECTORS

TECHNICAL CHARACTERISTICS

- Characteristic Impedance : 50 V
- Frequency Range : DC~11GHz
- Working Voltage : 500V
- Withstanding : 1500V
- Insulation Resistance : 5000M V

Contact Resistance

- Outer Conductor : <2.5M V
- Center Conductor : 10 M V

Voltage Standing Wave Ratio

- Straight : <1.22
- Right angle : <1.30



BNC COAXIAL CONNECTORS

TECHNICAL CHARACTERISTICS

- Characteristic Impedance : 50 V, 75 V
- Frequency Range : DC~4.0GHz
- Working Voltage : 500V
- Withstanding : 1500V
- Insulation Resistance : 5000M V

Contact Resistance

- Outer Conductor : <1MV
- Center Conductor : <1.5MV

Voltage Standing Wave Ratio

- Straight : <1.22
- Right angle : <1.30



RF Coaxial Connector Series SMB TYPE CONNECTORS

TECHNICAL CHARACTERISTICS

- Characteristic Impedance : 50 V
 - Frequency Range : 0~4GHz
 - Working Voltage : 330V
 - Withstanding : 1000V
 - Insulation Resistance : >1000M V
- Contact Resistance
- Outer Conductor : <1MV
 - Center Conductor : <6M V
- Voltage Standing Wave Ratio :
- Straight : <1.34 (3 GHz)
 - Right angle : <1.45 (1 GHz)
 - Insertion Loss : 0.3dB (1.5 GHz)



MDR & D-TYPE CONNECTORS

TECHNICAL CHARACTERISTICS

MATERIALS

- Contact base metal : Copper alloy
- Contact area finish : Gold over nickel
- Solder area finish : Tin over nickel
- Retainer clip base metal : Copper alloy
- Retainer finish : Tin over nickel
- Housing : High-temperature thermoplastic

ELECTRICAL PERFORMANCE

- Contact resistance: 30m. max. initial ,15m. max. change after test
- Current rating: 1.5A min. per contact with temperature rise not exceeding 30°C

ENVIRONMENTAL

- Humidity: 96 hours at 40°C with 90-95% relative humidity.
- Temperature life: 85°C for 500 hours.
- Thermal shock: 10 cycles between -55°C and +85°C

MECHANICAL PERFORMANCE

- Durability: 500 mating cycles
- Mating force: 50 N max./45 N max.
- Unmating force: 5 N min./4.5 N min.



8 PIN LEMO CONNECTOR

TECHNICAL CHARACTERISTICS

MATERIALS

- Shell Style/Model.FG* : Straight plug, cable collet and nut for fitting a bend relief
- Keying. : 1key (alpha=0, plug: male contacts, receptacle: female contacts)
- Housing Material. : Brass (chrome plated) shell and collet nut, nickel plated brass latch sleeve and mid pieces
- Variant. : Z, Nut for fitting a bend relief

SPECIFICATIONS.

- Contact Type : Solder
- Max. Matings : 5000
- Contact Dia. : 0.7 mm (0.028in)
- Bucket Dia. : 0.8 mm (0.031in)
- Max. Stranded Conductor : 0.34 mm² (AWG 22)
- Max. Conductor : 0.34 mm² (AWG 22)
- Resistance (max) : 6.1 mOhm
- Vtest (contact-shell) : 1150 V (AC), 1630 V (DC)



2 PIN LEMO CONNECTOR

TECHNICAL CHARACTERISTICS

MATERIALS

- Shell Style/Model.FG* : Straight plug, cable collet and nut for fitting a bend relief
- Keying. : 1key (alpha=0, plug: male contacts, receptacle: female contacts)
- Housing Material. : Brass (chrome plated) shell and collet nut, nickel plated brass latch sleeve and mid pieces
- Variant. : Z, Nut for fitting a bend relief

SPECIFICATIONS.

- Contact Type : Solder
- Max. Matings : 5000
- Contact Dia. : 0.7 mm (0.028in)
- Bucket Dia. : 0.8 mm (0.031in)
- Max. Stranded Conductor : 0.34 mm² (AWG 22)
- Max. Conductor : 0.34 mm² (AWG 22)
- Resistance (max) : 6.1 mOhm
- Vtest (contact-shell) : 1150 V (AC), 1630 V (DC)

OTHERS.

- Temp (min / max) : -55°C / +250°C
- Humidity (max) : ≤95% [at 60 deg C /140 F]
- Vibration : 15 g [10 Hz - 2000 Hz]
- Shock Resistance : 100 g [6 ms]
- Salt Spray Corrosion : >1000 hr
- Climatical Category : 50/175/21
- Shielding (min) : 75 dB (10 MHz)
- Shielding (min) : 40 dB (1 GHz)
- IP Rating : 50



ACCESSORIES FOR ANTENNA FEEDER

FEEDER CLAMPS

Feeder fixture is suitable for using in mobile communication base stations, repeater, indoor coverage system, wireless paging and Microwave Communication System, to fix transmission cable in iron tower, indoor, outdoor, subway and tunnel. The appearance of the Feeder fixture is beautiful and it is very durable, lightweight, compact, economic, positioning reliable and easy to install, endure canker.

TECHNICAL SPECIFICATION

- Temp. range : -55° ~ +85° C
- High Temperatures : 85° C
- Low Temperatures : -55° C
- Press : >5000N
- Shake : 200m/S2 (10~500Hz)



OUTDOOR GROUNDING KITS (RING BUCKLE TYPE)

MATERIAL & PLATING

- Copper Block : T2 Red Copper Skin
- Steel Wire : Stainless Steel
- Fastening : Stainless Steel
- Line Beezer : T2 Red Copper Canal
- Earth Cable : Cuprum Core
- Pyrocondensation Canal : Polyolefin Plastics



OUTDOOR GROUNDING KITS (COPPER LINGUA TYPE)

MATERIAL & PLATING

- Copper Tongue : T2 Red Copper Skin
- Fastening : Stainless Steel
- Line Beezer : T2 Red Copper Canal
- Earth Cable : Cuprum Core
- Pyrocondensation Canal : Polyolefin Plastics



OUTDOOR GROUNDING KITS (RING TYPE)

MATERIAL & PLATING

- Copper Wreath : T2 Red Copper Skin
- Copper Rivet : T2 Red Copper Skin
- Fastening : Stainless Steel
- Line Beezer : T2 Red Copper Skin Canal
- Earth Cable : Cuprum Core
- Pyrocondensation Canal : Polyolefin Plastics



ACCESSORIES FOR ANTENNA FEEDER INDOOR GROUNDING KITS (METAL STRIP TYPE)

MATERIAL & PLATING

- Bracket : Stainless Steel
- Metal Strip : Stainless Steel
- Fastening : Stainless Steel
- C-Copper Beezer : T2 Red Copper Canal
- Earth Cable : Cuprum Core
- Dustproof Box : ABS Plastic



UNIVERSAL GROUND BARS

The products are made of red copper plate, insulator and bracket, can be confluent 10 to 30 sheaves of grounding cables into one grounding. Its widely suitable for antenna feeder and equipments grounding cables into one grounding. Especially, the guard theft grounding copper strap is more security that installed outside room.

TECHNICAL CHARACTERISTICS

- Temperature Scope : -60°C ~ +150°C
- Impact Resistance : >70KA
- Insulation Resistance : >5G V
- Contact Resistance : <0.6m V

MATERIAL & PLATING

- Bracket : Stainless Steel
- Copper Line : T2-Purple Copper
- Bracket : Stainless Steel
- Insulated Body : Insulated Colophony



ACCESSORIES

CABLE ENTRY SYSTEMS

The Point of entry is critical when bringing cable into a building or equipment shelter. Cable entry system help protect valuable Telecom equipment by preventing help protect valuable Telecom equipment by preventing the ingress of dust and water. Wall entry consist of base plate and detachable UV proof EPDM rubber boots which comes in different shapes and sizes

- Hatch/Entry Plate : 1 Way
- Hatch/Entry Plate : 4 Way
- Hatch/Entry Plate : 6 Way
- Hatch/Entry Plate : 9 Way



ACCESSORIES

WEATHER PROOFING KITS

The application of sealing materials to coaxial cable connections protects them from weather conditions. These include moisture penetration and loosening of connections from vibrations caused by strong winds. E-Systemizer recommends weatherproofing these connections with standard weatherproofing tapes such as butyl and plastic electrical tapes.

- A. Main feeder cable-to-jumper cable connection
- B. Jumper cable-to-antenna connection

This kit provides an additional moisture seal and keeps connections free of dirt and tarnish from pollution. It also prevents loosening of connections from vibration or other external stresses, which would eventually allow moisture penetration. The sealed connection is suitable for typical exposed and buried cable applications.



COLD SHRINK TUBE

General Specification and information

Cold shrink tubes made of silicone rubber or EPDM rubber are a series of open ends, tubular rubber sleeves, which are manufactory expanded and assembled onto a removable supporting plastic core.

They are supplied for field installation in this pre-stretched condition. The core is removed after the tube has positioned for installation over an in line connection, terminal lug, etc., allowing the tube to shrink and form a waterproof seal.

Features

- Simple installation
- No tools or heating required
- Tightly sealing, retaining its resiliency and pressure even after years of aging and exposure
- Great thermal stability
- Excellent chemical and wet electrical properties
- Improved tough rubber formulation to withstand rough backfilling only for EPDM serial
- Waterproof which can meet requirements of IP67
- Acids and alkalis resistance
- Ozone and ultraviolet resistance
- Compact design, especially suitable for small space



Background and Application

Antenna-feeder system is an important part of mobile communication system, properties of which are vital to the communication quality.

Exposure of antenna and feeder may moisturize the connectors, which may gather condensed water on the connectors between jumper and antenna or between feeder and jumper. All of these may rise the standing wave ratio and cause power loss, resulting in minifying the covering range of the station.

Therefore, they are ideal sealing products, mainly used to connecting points between antenna and feeder or between feeders in antenna-feeder system of mobile communication station for sealing. The excellent sealing properties can even achieve synchronous-breathing. Meanwhile, they can be used in zones of heavy pollution, lower temperature and high elevation.

CABLES

COAXIAL/SHIELDED/PCM CABLES

E-Systemizer are the leading suppliers for telecommunication cables i.e. Co-Axial cables/Shielded/PCM cables of all sizes and specification.

APPLICATION

These cables are meant for inter exchange and for local network use. These cable may be unarmored/armored type.

RANGE

Conductor	: Solid / Stranded / Flexible copper (bare / tinned)
Insulation	: PVC - HR; PE, LSZH
Shielding	: individual & overall or overall screen only by Al-Mylar tape / copper tape / copper wire braid
Inner sheath	: PVC - HR / FR / FRLS; PE, LSZH
Armor (for armored cables)	: Galvanized steel round wire / strip
Outer sheath	: PVC - HR / FR / FRLS; PE, LSZH



ENERGY CABLES FOR POWER SUPPLY

TYPE & SIZES

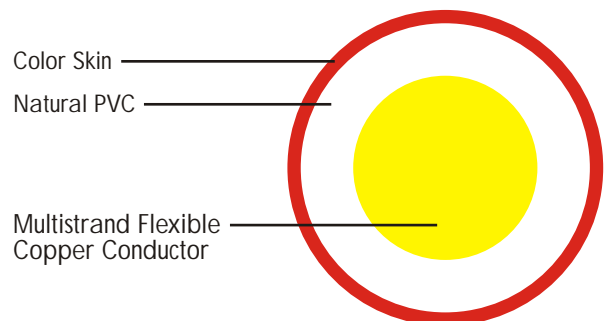
PVC Flexible Cables upto 1.1kv grade as per IS:694

SIZES

1.0 - 630 sq.mm
Single/Multi core

OPTIONS

Conductor: Stranded/Solid bright annealed Copper
Insulation: PVC/HR PVC/FRLS/XLPE/Zero Halogen



MULTI CORE CABLES

TYPE & SIZES

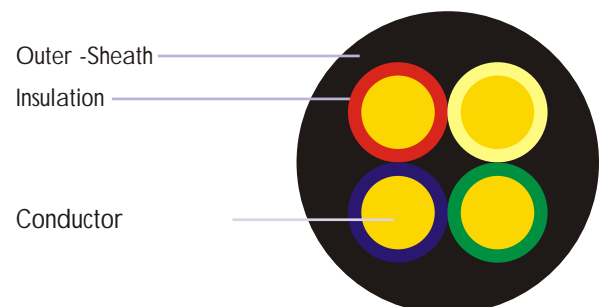
Multistrand, flexible bright annealed electrolytic copper conductor, PVC insulated and sheathed upto 1100v as per IS:694

SIZES

Single, Two, Three or Four core upto 150 sq.mm

OPTIONS

Insulation: PVC/HR PVC/FRLS/Zero Halogen
Unsheathed/Sheathing: PVC/HR PVC/FRLS/ Zero Halogen



POWER CABLES

TYPE & SIZES

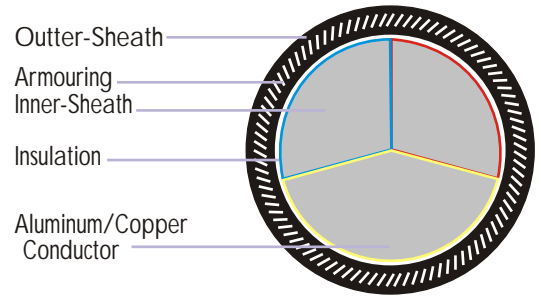
PVC/XLPE Power Cables for 1.1kv for Electrical Substations as per IS:1554/PT-1 & IS:7098/PT-I

SIZES

Single Core 1.0-1000 sq.mm
 Multicore 4 - 630 sq.mm

OPTIONS

Conductor: Stranded/Solid,Circular/Shaped Aluminium/Copper
 Insulation: PVC/XLPE/HR PVC
 Inner Sheath: PVC/HR PVC/FRLS PVC/Unarmoured/Armoured -
 G.S.Round Wire/Flat Strip or Aluminium Wire/Flat Strip
 Outer Sheath: PVC/HR PVC/FRLS PVC



COPPER CONTROL CABLES

TYPE & SIZES

Annealed electrolytic copper conductor, PVC/XLPE insulated, PVC sheathed 650/1100V grade as per IS:1554-1 & IS:7098-I.

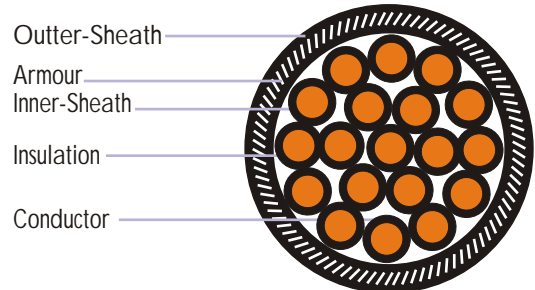
SIZES

1.5/2.5 sq.mm upto 61 core
 4 & 6 sq.mm upto 4 core

OPTIONS

Conductor: Solid/Stranded, Plain/Tinned
 Insulation: PVC/HR PVC/XLPE
 Inner Sheath: PVC/HR PVC/FRLS/Zero Halogen
 Unarmoured /Annoured: G.S.Round Wire/Flat Strip
 Outer Sheath: PVC/HR PVC/FRLS/Zero Halogen

Additional Option: Overall shielding with aluminium mylar tape with 100% coverage & 25% overlap on laid up cores for static noise rejection.



TWISTED PAIR CABLES

UTP CATEGORY 5E LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 24AWG/32AWG*7 pure copper conductor with insulation of HD polyolefin, protected by a thermoplastic and non-flame propagating sheath colored according to customer's special request.

This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 100MHz, for D class application in structured cabling system for buildings, specification checked up to 350MHz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM, TP-PMD, ANSI X39T.5(TP), LSDN, TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 9.38 ohm/100M at 20°C
Max. ring resistance	16.8 ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	50mm
Working temperatures	-20~60°C

Frequency (Mhz)	RL (dB)	ATT (dB/100)	Next (dB)	P.S Next (dB)	ACR (dB)	PS-ACR (dB)	ELFEXT (dB)	PS-FLF Ext (dB)
1MHz	20.0	2.1	68.0	66.0	66.3	64.3	63.8	60.8
4MHz	23.0	4.2	59.2	57.2	55.2	53.2	51.7	48.8
8MHz	24.5	5.9	54.8	52.8	49.0	47.0	45.7	42.7
10MHz	25.0	6.6	53.3	51.3	46.8	44.8	43.8	40.8
16MHz	25.0	8.3	50.3	48.3	42.1	40.1	39.7	36.7
20MHz	25.0	9.4	48.8	46.8	39.5	37.5	37.8	34.8
25MHz	24.3	10.3	47.3	45.3	36.9	34.9	35.8	32.8
31.25MHz	23.6	11.8	45.9	43.9	34.2	32.2	33.9	30.9
62.5MHz	21.5	17.1	41.4	39.4	24.4	22.4	27.8	24.8
100MHz	20.1	22.2	38.3	36.3	16.3	14.3	23.8	20.8
155MHz	18.8	28.2	35.4	33.4	7.4	5.4	20.0	17.0
200MHz	18.0	32.5	33.7	31.7	1.4	0	17.7	14.7
240MHz	17.4	36.1	32.6	30.6	-	-	16.2	13.2
300MHz	16.8	41.1	31.2	29.2	-	-	14.2	11.2
350MHz	16.3	45.0	30.1	28.1	-	-	12.9	9.9

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	UTP Cat5e	Pure copper	PE	Blue-blue/white	CM(CMG) ; CMR ; LSOH ;
1221	4x2 24AWG/1	AWG 24		Orange-Orange/white	
1421	4x2 32AWG/7	AWG 24		Green-green/white	
1421	4x2 34AWG/7	AWG 26		Brown-brown/white	

TWISTED PAIR CABLES

FTP CATEGORY 5E LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 24AWG/32AWG*7 pure copper conductor with insulation of HD polyolefin, grouped with drain wire under Polyester tape and Al-foil/polyester tape, protected by a thermoplastic and non-flame propagating sheath colored according to customer's special request. This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 100Mhz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM,TP-PMD,ANSI X39T.5(TP),LSDN,TP-DDI
EN 50173	ETHERNET,1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 9.38 ohm/100M at 20°C
Max. ring resistance	16.8 ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	50mm
Working temperatures	-20~60°C

Frequency (Mhz)	RL /(dB)	ATT(dB/100)	Next (dB)	P.S. NEXT (dB)
0.772	20	1.8	67	64
1Mhz	20	2	65.3	62.3
4Mhz	23	4.1	56.3	53.3
8Mhz	24.5	5.8	51.3	48.8
10Mhz	25	6.5	50.3	47.3
16Mhz	25	8.2	47.3	44.3
20Mhz	25	9.3	45.8	42.8
25Mhz	24.3	10.4	44.3	41.3
31.25Mhz	23.3	11.7	42.9	39.9
62.5Mhz	20.7	17	38.4	35.4
100Mhz	19	22	35.3	32.3

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	FTP Cat5e	Pure copper	PE	Blue-blue/white	CM(CMG) ; CMR ; LSOH ;
				Orange-Orange/white	
1322	4x2 24AWG/1	AWG 24		Green-green/white	
1422	4x2 34AWG/7	AWG 26		Brown-brown/white	

TWISTED PAIR CABLES

SFTP CATEGORY 5E LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 24AWG/32AWG*7 pure copper conductor with insulation of HD polyolefin, grouped under Polyester Tape and Al-foil/polyester tape + metal wire braid, protected by athermoplastic and non flame propagating sheath colored according to customer's special request.

This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 100 Mhz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM,TP-PMD,ANSI X39T.5(TP),LSDN,TP-DDI
EN 50173	ETHERNET,1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 9.38 ohm/100M at 20°C
Max. ring resistance	16.8 ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	50mm
Working temperatures	-20~60°C

Frequency (Mhz)	RL /(dB)	ATT(dB/100)	Next (dB)	P.S. NEXT (dB)
0.772	20	1.8	67	64
1Mhz	20	2	65.3	62.3
4Mhz	23	4.1	56.3	53.3
8Mhz	24.5	5.8	51.3	48.8
10Mhz	25	6.5	50.3	47.3
16Mhz	25	8.2	47.3	44.3
20Mhz	25	9.3	45.8	42.8
25Mhz	24.3	10.4	44.3	41.3
31.25Mhz	23.3	11.7	42.9	39.9
62.5Mhz	20.7	17	38.4	35.4
100Mhz	19	22	35.3	32.3

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	SFTP Cat5e	Pure copper	PE	Blue-blue/white	CM(CMG) ; CMR ; LSOH ;
				Orange-Orange/white	
1323	4x2 24AWG/1	AWG 24		Green-green/white	
1423	4x2 34AWG/7	AWG 26		Brown-brown/white	

TWISTED PAIR CABLES

UTP CATEGORY 6 LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 23AWG/32AWG*7 pure copper conductor with insulation of HD polyolefin., grouped with cross slot to make stable structure, protected by a thermoplastic and non-flame propagating sheath colored according to customer's special request.
This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 250Mhz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM,TP-PMD,ANSI X39T.5(TP),LSDN,TP-DDI
EN 50173	ETHERNET,1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 7.0 ohm/100M at 20°C
Max. ring resistance	16.8 ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	60mm
Working temperatures	-20~60°C

Frequency (Mhz)	Impedance	RL (dB)	ATT (dB/100)	Next (dB)	P.S. NEXT (dB)	ELFEXT (dB)	PS- ELFEXT (dB)
772KHz	100+15	19.44	1.84	76	74	70	67
1MHz	100±15	20	2.04	74.3	72.3	67.8	64.8
4MHz	100+15	23.01	3.81	65.3	63.3	55.8	52.8
8MHz	100±15	24.52	5.35	60.8	58.8	49.7	46.7
10MHz	100+15	25	5.99	59.3	57.3	47.8	44.8
16MHz	100+15	25	7.6	56.2	54.2	43.7	40.7
20MHz	100+15	25	8.52	54.8	52.8	41.8	38.8
25MHz	100+15	24.32	9.57	53.3	51.3	39.8	36.8
31.25MHz	100+15	23.64	10.74	51.9	49.9	37.9	34.9
62.3MHz	100+15	21.54	15.48	47.4	45.4	31.9	28.9
100MHz	100±15	20.1	19.92	44.3	42.3	27.8	24.8
125MHz	100+22	19.42	22.49	42.8	40.8	25.9	22.9
200MHz	100+22	18	29.15	39.8	37.8	21.8	18.8
250MHz	100 ±32	17.32	33.04	38.3	36.3	19.8	16.8

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	UTP Cat6	Pure copper	PE	Blue-blue/white	CM(CMG) ; CMR ; LSOH ;
1331	4x2 23AWG/1	AWG 23		Orange-Orange/white	
1431	4x2 32AWG/7	AWG 24		Green-green/white	
1431	4x2 34AWG/7	AWG 26		Brown-brown/white	

TWISTED PAIR CABLES

FTP CATEGORY 6 LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 23AWG/32AWG*7 pure copper conductor with insulation of HD polyolefin., grouped with cross slot with drain wire under Polyester tape and Al-foil/polyester tape to make stable structure,protected by a thermoplastic and non-flame propagating sheath colored according to customer's special request.

This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 250Mhz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM,TP-PMD,ANSI X39T.5(TP),LSDN,TP-DDI
EN 50173	ETHERNET,1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 7.0 ohm/100M at 20°C
Max. ring resistance	16.8 ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	60mm
Working temperatures	-20~60°C

Frequency (Mhz)	Impedance	RL (dB)	ATT (dB/100)	Next (dB)	P.S. NEXT (dB)	ELFEXT (dB)	PS- ELFEXT (dB)
772KHz	100+15	19.44	1.84	76	74	70	67
1MHz	100±15	20	2.04	74.3	72.3	67.8	64.8
4MHz	100+15	23.01	3.81	65.3	63.3	55.8	52.8
8MHz	100±15	24.52	5.35	60.8	58.8	49.7	46.7
10MHz	100+15	25	5.99	59.3	57.3	47.8	44.8
16MHz	100+15	25	7.6	56.2	54.2	43.7	40.7
20MHz	100+15	25	8.52	54.8	52.8	41.8	38.8
25MHz	100+15	24.32	9.57	53.3	51.3	39.8	36.8
31.25MHz	100+15	23.64	10.74	51.9	49.9	37.9	34.9
62.3MHz	100+15	21.54	15.48	47.4	45.4	31.9	28.9
100MHz	100±15	20.1	19.92	44.3	42.3	27.8	24.8
125MHz	100+22	19.42	22.49	42.8	40.8	25.9	22.9
200MHz	100+22	18	29.15	39.8	37.8	21.8	18.8
250MHz	100 ±32	17.32	33.04	38.3	36.3	19.8	16.8

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	FTP Cat6	Pure copper	PE	Blue-blue/white	CM(CMG) ; CMR ; LSOH ;
1331	4x2 23AWG/1	AWG 23		Orange-Orange/white	
1431	4x2 32AWG/7	AWG 26		Green-green/white	
1431	4x2 34AWG/7	AWG 27		Brown-brown/white	

TWISTED PAIR CABLES

SFTP CATEGORY 6 LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 23AWG/32AWG*7 pure copper conductor with insulation of Foamed polyolefin, every pair is shielded with Al-foil tape. grouped under metal wire braiding. protected by a thermoplastic and non-flame propagating sheath colored according to customer's special request. This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 250Mhz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM,TP-PMD,ANSI X39T.5(TP),LSDN,TP-DDI
EN 50173	ETHERNET,1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 7.0 ohm/100M at 20°C
Max. ring resistance	16.8 ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	60mm
Working temperatures	-20~60°C

Frequency (Mhz)	Impedance	RL (dB)	ATT (dB/100)	Next (dB)	P.S. NEXT (dB)	ELFEXT (dB)	PS- ELFEXT (dB)
1MHz	100+15	20	1.9	80.3	77.3	70.8	67.8
10MHz	100±15	25	5.7	65.3	62.3	50.8	47.8
31.3MHz	100+15	25	10.2	57.9	54.9	40.9	37.9
62.5MHz	100±15	25	14.7	53.4	50.4	34.9	31.9
100MHz	100+15	25	18.9	50.3	47.3	30.8	27.8
155MHz	100+15	22.8	23.9	47.5	44.5	27	24
200MHz	100+15	21.7	27.5	45.8	42.8	24.7	21.7
250MHz	100+15	20.5	31.2	44.3	41.3	22.8	19.8

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	SFTP Cat6	Pure copper	PE	Blue-blue/white	FR-PVC; LOSH
1343	4x2 23AWG/1	AWG 23		Orange-Orange/white	
1443	4x2 34AWG/7	AWG 26		Green-green/white	
1443	4x2 36AWG/7	AWG 27		Brown-brown/white	

TWISTED PAIR CABLES

FTP CATEGORY 6A LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 23AWG/32AWG*7 pure copper conductor with insulation of Foam PE, grouped with cross slot to make stable Structure, protected by a thermoplastic and non-flame propagating sheath colored according to customers special request.

This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 500Mhz, for A class application in structured cabling system for buildings, specification checked up to 500Mhz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM, TP-PMD, ANSI X39T.5(TP), LSDN, TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 9.38 ohm/100M at 20°C
Max. ring resistance	16.8 Ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	60mm
Working temperatures	-20~60°C

Frequency (Mhz)	Impedance	RL (dB)	ATT (dB/100)	Next (dB)	P.S. NEXT (dB)	ELFEXT (dB)	PS- ELFEXT (dB)
0.772	-	-	1.8	79	77	73	69
1	100+15	20	2	77	75	71	68
4	100+15	23	3.8	68	66	59	56
8	100±15	24.5	5.3	64	62	53	50
10	100±15	25	6	62	60	51	48
16	100±15	25	7.6	59	57	47	44
20	100±15	25	8.5	58	56	45	42
25	100+15	24.32	9.5	56	54	43	40
31.25	100+15	23.64	10.7	55	53	41	38
62.5	100+15	21.54	15.4	50	48	35	32
100	100±15	20.1	9.8	47	45	31	28
155	100±15	19.42	25.2	44	42	27	24
200	100+15	18	29	43	41	25	22
250	100+15	17.32	32.8	41	39	23	20
300	100+15	16.8	36.4	40	38	21	18
350	100±15	16.3	39.8	39	37	20	17
400	100±15	15.9	43	38	36	19	16
450	100±15	15.5	46	38	36	18	15
500	100±15	15.2	48.9	37	35	17	14

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	UTP Cat6A	Pure copper	Foam PE	Blue-blue/white	CM(CMG) ; CMR ; LSOH ;
				Orange-Orange/white	
1341	4*2 23AWG/1	AWG 23		Green-green/white	
1441	4*2 32AWG/7	AWG 24		Brown-brown/white	

TWISTED PAIR CABLES

SFTP CATEGORY 7 LAN CABLE

General Specification and information

For fixed application, this cable is in 4-pair with conductors in 23AWG/32AWG*7 pure copper conductor with insulation of Foamed polyolefin, every pair is heat with Al-foil tape. grouped under metal wire braiding. protected by a thermoplastic and non-flame propagating sheath colored according to customer's special request. This cable is used for high speed transmission of voice and data between central and peripheral system for frequencies up to 600MHz.

Standard	Application
ISO/IEC 11801-2Ed	10/100BASE(TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM, TP-PMD, ANSI X39T.5(TP), LSDN, TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring(IEEE802.5)



Electrical Specifications

Dielectric strength:	2.5KV dc-2seconds
Conductor resistance:	Max 7.0 ohm/100M at 20°C
Max. ring resistance	16.8 ohm/100 M at 20°C
Max. mutual capacitance	560 pf/100M
Max. capacity unbalance	330 pf/100M
Standard impedance	100±15 ohm between 1Mhz and 100Mhz
Minimum bending radius	60mm
Working temperatures	-20~60°C

Frequency (Mhz)	RL / return loss dB/100 mt	Attenuation dB/100 mt	Next (dB)	P.S. NEXT (dB)	P.S. NEXT dB
1MHz	/	2	80.3	99.4	/
10MHz	/	5.9	65.3	84.4	72.3
31.25MHz	23.6	10.4	57.9	77	62.4
62.5MHz	21.5	14.9	53.4	72.5	56.4
100MHz	20.1	19	50.3	69.4	52.3
155MHz	18.8	24	47.5	66.6	48.5
200MHz	18	27.5	45.8	64.9	46.3
250MHz	17.3	31	44.3	63.4	44.3
350MHz	16.3	37.2	40.2	61.2	41.4
400MHz	15.9	40	39.3	60.4	40.3
500MHz	15.2	45.3	37.8	58.9	38.3
550MHz	14.9	47.7	37.2	58.3	37.5
600MHz	14.7	50.1	36.6	57.7	36.7

Manufacturing Specifications

Code	Description	Inner Conductor	Insulation	Pairs color code	Sheath
	SFTP CAT7	Pure copper	Foam PE	Blue-blue/white	FR-PVC; LOSH
1341	4*2 23AWG/1	AWG 23		Orange-Orange/white	
1441	4*2 32AWG/7	AWG 24		Green-green/white	
				Brown-brown/white	



NYLON CABLE SERIES



WIRE/CABLE STRAP STAINLESS STEEL CABLE TIES



NAIL CABLE CLIPS SERIES



WIRING ACCESSORIES & ELECTRICAL CONNECTOR SERIES

NYLON CABLE SERIES



NYLON CABLE TIES



MAKER TIES



MOUNTABLE HEAD TIES



NYLON CABLE TIES



CARD BAND



MARKER TIES



RELEASABLE CABLE TIE



BOX MARKER TIES



RELEASABLE CABLE TIE



RELEASABLE LASHING CABLE TIE



MOUNTABLE CAR HEAD TIES



MOUNTABLE HEAD TIES



MOUNTABLE HEAD TIES



PUSHMOUNT TIES



PUSHMOUNT TIES



PUSHMOUNT TIES



DOUBLE LOCKING CABLE TIES



DOUBLE LOCKING CABLE TIES



DOUBLE HEAD CABLE TIES



KNOT TIE(BALL TYPE)



TRAPEZOID TIE (BALL TYPE)



FISSION STYLE CABLE TIE



PACKING OF SERIES A



PACKING OF SERIES B



PACKING OF SERIES B

WIRE/CABLE STRAP STAINLESS STEEL CABLE TIES



PACKING OF SERIES C



PACKING OF SERIES D



TIE GUN



HOOK & LOOP
CABLE TIES(VELCRO)



WIRE/CABLE
STRAP SERIES



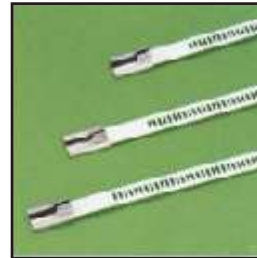
FASTENING TAPE



D.I.Y PACKET SERIES



STAINLESS STEEL
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UNIVERSAL CLAMPING
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INLAY BLOCK TIES



NYLON STAINLESS STEEL
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BAND CLAMPS



MARKER PLATES



STAINLESS STEEL TIE
WITH NYLON COATING



ZD HOSE CLAMP

NAIL CABLE CLIPS SERIES



CIRCLE CABLE CLIPS



DOUBLE NAIL FLAT
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PACKING OF SERIES F



PACKING OF SERIES H



CABLE TIE MOUNTS



R TYPE CABLE CLAMPS



SADDLE TYPE TIE MOUNTS



K TYPE CABLE CLAMPS

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HEAT-SHRINKABLE TUBINGS



SPIRAL WRAPPING BAND



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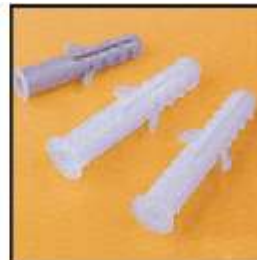
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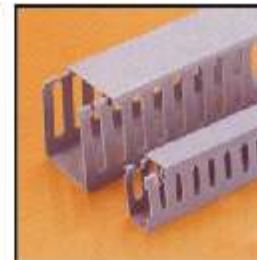
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