

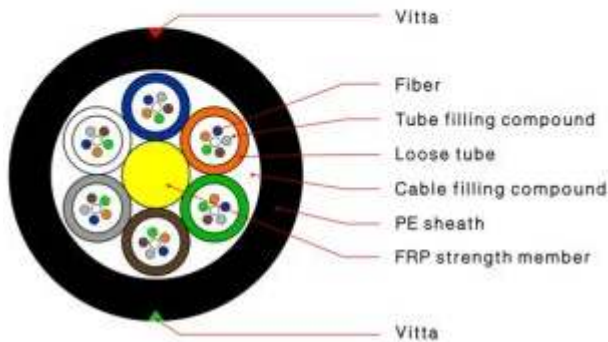


# UNIQUE METAL CORPORATION

Address: Shop no 17, Rajmandir Co. Op. Hsg. Soc. Ltd, Kopalri Road, GIDC,  
Vapi-396195, Gujarat  
Contact: Jitesh-9375980131, Mukesh-9377015999, E-mail: mukeshjain6@gmail.com

Dear  
Sir/Madam

We are Pleased to introduce ourselves as:



→ Optical Fibre Cables:  
→ Manufacturers of our own brand “UNIQUE” Cables.  
→ Importers of ‘KEMAN’ Cables.  
→ Distributors for Sterlite, Uniflex, Finolex, Aksh, Usha Martin, Birla Cables.

→ Suppliers of Ubiquity Products.

→ Suppliers Of All Cable Related Accessories of Brands Like Syrotech, Optilink, D link, TP Link, Tenda, NCS

**Manufacturers/Importers/Distributors/Super Stockists:** Optical Fibre Cables, CATV Products, Jellyfilled Cables, Internet Cables, TV Cables, Wireless Products, Splicing Machines.  
**Brands:** Finolex, Sterlite, Uniflex, KEC, Sudarshan, Birla, Ubiquiti, Syrotech, DBC, Optilink, 6S, Fujikora



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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.. 3 types 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	ø 3.0, ø 2.0, ø 0.9			

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## 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 US CONEC'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

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## 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

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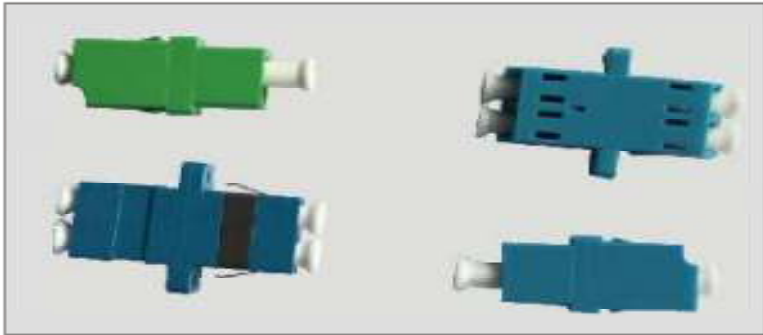




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## Fiber Optic Adapter



LC Adapter



SC Adapter



FC Adapter



MTRJ Adapter



E2000 Adapter



MPO Adapter



ST Adapter

## Parameter

Parameter	Unit	SC/LC/FC/ST/MPO/MTRJ/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			

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## 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			

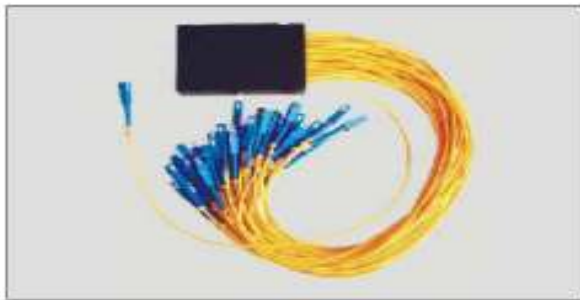
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## PLC Splitter



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

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## Media Converter

### 10/100M Single Fiber Media Converter

#### Features

- ▶ Complies with IEEE 802.3 10 Base-T standard.
- ▶ Complies with IEEE 802.3u 10/100Base-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, FPL10/100, FRX, TRX, PDX	
Power Supply	External	DC 48V, DC 24V, DC 12V, DC 5V
	Internal	AC 110-250V/50Hz
	Power Consumption	DC -32~-72V
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)	
MTBF (Hours)	50/125, 62.5/125mm (the max distance up to 2km or 5km)	
Dimensions(mm)	External power supply	>50000
	Internal power supply	94mm*70mm*25mm(3.7 *2.8*0.98 inch)
	Socket Card	140mm*110mm*30mm(5.5 *4.3 *1.2 inch)
Gross Weight	External power supply	1.57mm*128mm*31mm(6.2 *5.1*1.2 inch)
	Internal power supply	0.4 kg
	Socket Card	0.8kg
		1.0kg

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## 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 (3 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 CEMARK



### Application

- ▶ Apply to ready to rise to 10M extended enterprise network bandwidth 100M
- ▶ 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
	Power Consumption	DC -32~-72V
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	B: 3/125, 8.7/125, 9/125, 10/125mm (the max distance up to 20 -120km)	
MTBF (Hours)	50/125, 62.5/125mm (the max distance up to 2km or 5km)	
Dimensions(mm)	External power supply	>50000
	Internal power supply	94mm*70mm*25mm(3.7 *2.8*0.98 inch)
	Socket Card	140mm*110mm*30mm(5.5 *4.3 *1.2 inch)
Gross Weight	External power supply	157mm*128mm*31mm(6.2 *5.1*1.2 inch)
	Internal power supply	0.4 kg
	Socket Card	0.8kg
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## 10/100/1000M Single Fiber Media Converter

### Features

- ▶ Complies with IEEE 802.3 10 Base-T standard.
- ▶ Complies with IEEE 802.3u 10/100Base-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	
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	AC1 10-250V/50Hz
	Power Consumption	DC -32~-72V
Environmental Parameters	Work Temperature	E 5W
	Storage Temperature	0°C~50°C (32°F ~ 122°F )
	Humidity	-40°C~70°C (-40°F ~ 158°F )
TP Cable	Cat5 UTP cable (the max distance up to 100m)	
Fiber Cable	B: 3/125, 8.7/125, 9/125, 10/125 <sub>mm</sub> (the max distance up to 20 -120km)	
MTBF (Hours)	50/125, 62.5/125 <sub>mm</sub> (the max distance up to 2km or 5km)	
Dimensions(mm)	>50000	
	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)
Gross Weight	Socket Card	1.57mm*128mm*31mm(6.2 *5.1*1.2 inch)
	External power supply	0.4 kg
	Internal power supply	0.8kg
	Socket Card	1.0kg

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## 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 20-120km 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 1000Base 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	
	IEEE802.1q, IEEE802.1p QoS,	
	IEEE802.1d Spanning Tree	
	IEEE 802.3z 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 ~ 156°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

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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 1.5 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, 9.7/125, 9/125 or 10/125 mm

## Dimension

- ▶ Power external: 185mm(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 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: 294 x 283 x 100 mm (W x D x H)
- ▶ 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

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**Brands:** Finolex, Sterlite, Uniflex, KEC, Sudarshan, Birla, Ubiquiti, Syrotech, DBC, Optilink, 6S, Fujikora





# UNIQUE METAL CORPORATION

Address: Shop no 17, Rajmandir Co. Op. Hsg. Soc. Ltd, Koparli Road, GIDC,  
Vapi-396195, Gujarat  
Contact: Jitesh-9375980131, Mukesh-9377015999, E-mail: mukeshjain6@gmail.com

## 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 SFP MSA, and support up to 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-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

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## 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  
Insulation  
Shielding

Inner sheath  
Armor (for armored cables)  
Outer sheath

- : Solid / Stranded / Flexible copper (bare / tinned)
- : PVC - HR; PE, LSZH
- : Individual & overall or overall screen only by Al-Mylar tape / copper tape / copper wire braid
- : PVC - HR / FR / FRLS; PE, LSZH
- : Galvanized steel round wire / strip
- : PVC - HR / FR / FRLS; PE, LSZH



## ENERGY CABLES FOR POWER SUPPLY

### TYPE & SIZES

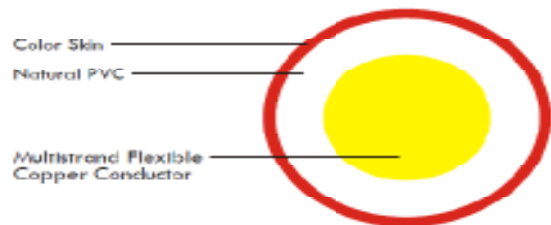
PVC Flexible Cables upto 1.1kv grade as per IS:694

### 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

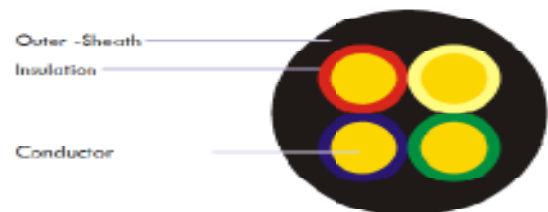
Multistrand, flexible bright annealed electrolytic copper conductor, PVC insulated and sheathed upto 1100v as per IS:694

### 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



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## 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(IEEE802.3)

### 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	-	-	13.9	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	

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## 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
1331	4x2 23AWG/1	Pure copper	PE	Blue-blue/white	CM(CMG) ; CMR ; LSOH ;
1431	4x2 32AWG/7	AWG 23		Orange-Orange/white	
1431	4x2 32AWG/7	AWG 24		Green-green/white	
1431	4x2 34AWG/7	AWG 26		Brown-brown/white	

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