UPCOM

Enginerred To Make Your Network Better

Fiber Optic Connectivity

Copper Connectivity

Cable

Rack Cabinet

PRODUCT OVERVIEW
2019

www.upcom.com.tr   info@upcom.com.tr

Fiber Optic Connectivity

Copper Connectivity

Cable

Rack Cabinet

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INTRODUCTION

Upcom® is a global organization providing connectivity and infrastructure solutions for all size of organizations. Upcom® provides complete networking solutions within the industry. Upcom was established in 2018 with its headquarters in Istanbul in Turkey.

Upcom® is a platform where you can find Fiber Optic Connectivity Product, Copper connectivity product, Cable & Rack Cabinet since 2018, based in Turkey. It provides a broad range of products and enrich the variety of products that is available at the stock in each and every day. Upcom's mission is to provide its customers with reliable, modern and cost efective networking solutions.

Upcom is agressive, straightforward oriented global supplier of networking solutions and committed to provide its customers with cost effective and reliable networking solutions that keeps them step forward from their competitors and puts them one step closer to future.

Upcom has presence in most sophisticated global markets, in Europe and Middle East.

Upcom is focused on providing quality proven and certified products by UL, ETL, CPR, CE, REACH & RoHS. Connection technology components are in compliance with international standards and meet the highest standards and are used worldwide.

Upcom consolidates complex material requirements from multiple manufacturers under a single purchase order.

For large scale projects materials can be staged and delivered on a schedule to help better manage cash flow.

We maintain multiple suppliers to minimize lead times and ensure high quality solutions at competitive prices.

We listen, learn, and implement processes that helps both Upcom and our customers improve purchase order accuracy, forecast requirements and reduce project risks.

What is more,

✓ 25 Years warranty

✓ Full Fiber Optic and Copper Connectivity Solutions

✓ UL, ETL, CPR, REACH, CE & RoHS certified products

✓ Tested and Quality proven products

✓ Stock Availability

✓ Solution Oriented Approach

✓ Solid Partnership

BENEFITS

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Upcom provides only the best performed connectivity products, end to end, connectivity solutions featuring a full range of innovative products engineered to make your network better, over its whole life.

Our components are manufactured in TURKEY with state of the art approved facilities to meet and even exceed the customer expectations by the latest international standards as published by organisations such as IEC, ISO/IEC, TIA/EIA, ITU-T and Telcordia GR-326-Core.

WARRANTY

We offer a 25 year product and application warranty as standard on all installations completed by an accredited Upcom Partner.

Our warranty covers all Upcom copper connectivity products, fibre optic connectivity products, Cables & Rack Cabinet systems when installed as part of an end to end Upcom Solution.

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FIBER OPTIC CONNECTIVITY PRODUCTS

Upcom optical cable assemblies provide the vital connectivity links and patching for your network. Our in-house designed and specified assemblies provide 1 to 288 fibres featuring IEC compliant components and a choice of performance levels to suit your network needs.

FC Adaptor

DESCRIPTION

The FC adapters are mainly used for single mode applications were precision is required. There are many kinds of fiber optic adapters, including SC, FC, LC, MU, ST and MTRJ. With its simple to use locking thread mechanism preventing accidental disconnection, this provides a very secure connection.

FEATURES

Thread and integration structure with reliable connector;

Square and round flange

High return loss, Low insertion loss

Push-and-pull structure, convenient for operation;

Split zirconia (ceramic) ferrule is adopted.

Used to mate two connectors together.

Usually mounted in a distribution panel or wall box.

FC adapter is available for all standard connector types in both single mode and multimode.

The adapters are color coded allowing easy identification of the adapter type.

Available with single-core & multi-core patch cords and pigtails.

APPLICATION

Fiber optic transmission system
CATV networks
LAN
Testing/measurement instruments
Fiber distribution frame, mounts in fiber optic wall mount and rack mount cabinets

SPECIFICATION

Parameter	FC/PC	FC/UPC	FC/APC
Working Temperature (°C)	-40 — +80		
Insertion Loss (dB)	≤0.20	≤0.20	≤0.20
Return Loss(dB)	≤45	≤50	≤60

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LC Adaptor

DESCRIPTION

The LC adapter set the standard for small optical fiber interconnects. LC small-form-factor adapters are available as duplex, enabling two connectors to be used in the same footprint.

FEATURES

Double the capacity, perfect space saving solution

Small size, large capacity

Bayonet structure, convenient for installation.

High return loss, Low insertion loss

Push-and-pull structure, convenient for operation;

Split zirconia (ceramic) ferrule is adopted.

Used to mate two connectors together.

Usually mounted in a distribution panel or wall box.

LC adapter is available for all standard connector types in both single mode and multimode.

The adapters are color coded allowing easy identification of the adapter type.

Available with single-core & multi-core patch cords and pigtails.

APPLICATION

Fiber optic transmission system
CATV networks
LAN
Testing/measurement instruments
Fiber distribution frame, mounts in fiber optic wall mount and rack mount cabinets

SPECIFICATION

Parameter	LC/PC	LC/UPC	LC/APC
Working Temperature (°C)	-25 — +75		
Insertion Loss (dB)	≤0.20	≤0.20	≤0.20
Return Loss(dB)	≤45	≤50	≤60

SC Adaptor

DESCRIPTION

The SC adapters are the most used set for modern day optical fiber systems. With the audible click locking mechanism and pull proof design this connector provides a secure interconnect.

FEATURES

Double the capacity, perfect space saving solution

Small size, large capacity

Bayonet structure, convenient for installation.

High return loss, Low insertion loss

Push-and-pull structure, convenient for operation;

Split zirconia (ceramic) ferrule is adopted.

Used to mate two connectors together.

Usually mounted in a distribution panel or wall box.

Upcom's LC adapter is available for all standard connector types in both single mode and multimode.

The adapters are color coded allowing easy identification of the adapter type.

Available with single-core & multi-core patch cords and pigtails.

APPLICATION

Fiber optic transmission system
CATV networks
LAN
Testing/measurement instruments
Fiber distribution frame, mounts in fiber optic wall mount and rack mount cabinets

SPECIFICATION

Parameter	SC/PC	SC/UPC	SC/APC
Working Temperature (°C)	-25 — +75		
Insertion Loss (dB)	≤0.20	≤0.20	≤0.20
Return Loss(dB)	≤45	≤50	≤60

ST Adaptor

DESCRIPTION

The ST adapter set the standard for optical fiber interconnects. Bayonet locking mechanism can prevent accidental disconnection. With the precision housing this adapter gives the very best of performance.

FEATURES

Rotary bayonet structure, convenient for operation;

Phosphor bronze and split zirconia (ceramic) ferrules can be selected.

High return loss, Low insertion loss

Push-and-pull structure, convenient for operation;

Split zirconia (ceramic) ferrule is adopted.

Used to mate two connectors together.

Usually mounted in a distribution panel or wall box.

Upcom's ST adapters are available for all standard connector types in both single mode and multimode.

The adapters are color coded allowing easy identification of the adapter type.

Available with single-core & multi-core patch cords and pigtails.

APPLICATION

Premise installations
Telecommunication networks
Metro networks
Local Area Networks (LANs)
Data processing networks
Instrumentation

SPECIFICATION

Parameter	ST/PC	ST/UPC	ST/APC
Working Temperature (°C)	-40 — +80		
Insertion Loss (dB)	≤0.20	≤0.20	≤0.20
Return Loss(dB)	≤45	≤50	≤60

MPO/MTP Adaptor

DESCRIPTION

MTP/MPO fiber optic adapter enable quick and easy connections of single-mode and multimode fibers. Fiber optic adapters are used to provide a cable to cable or cable to equipment fiber optic connection. There are many kinds of fiber optic adapters, including MTP/MPO, FC, SC, LC, MU, ST, and MTRJ. With its simple to use locking thread mechanism preventing accidental disconnection, this provides a very secure connection.

FEATURES

MTP/MPO to MTP/MPO style

Use in Singlemode or Multimode applications

Free-hanging or panel-mount design

A cable to cable fiber optic connection

Cable to equipment fiber optic connection

Dust caps protect against debris and contamination

Material: Plastic

RoHS Compliant

APPLICATION

Datacentre networks
Telecommunications networks
Data processing networks
Cable television
FTTH) Fiber-To-The-Home
Premises distribution

TECHNICAL SPECIFICATIONS

Insertion Loss (dB)	≤ 0.20dB	
Durability	SM STANDARD	MM STANDARD
	<0.30dB change 500 matings	<0.20dB change 1000 matings
Operating Temperature	-40ºC to +85ºC	

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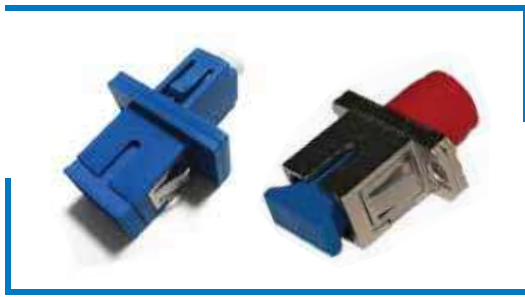
Hybrid Adaptor
(Female to Female)

░ DESCRIPTION

We supply various kinds of hybrid fiber optic adapters, including the FC, ST, SC, LC, MU, DIN series. These hybrid fiber adapters are single mode and multimode types, with PC or APC sleeves, in simplex and duplex style. They are widely used in the fiber optic links.

The fiber optic adapter provided can be devided into SC,FC,LC,MU,ST,MTRJ. The number of fiber optics they can be divided into single channel and double channels and multiply channels (SC,LC,MU). All fiber optic adpaters meet IEC standard.

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. Hybrid fiber adapters use high precision ceramic sleeves which enable reliable ferrule mating and ensure low insertion loss and return loss during the linking.

░ FEATURES

Complies with IEC, TIA/EIA, Telecordia standards.

High precision alignment sleeve

Low insertion loss and high reconnectability

RoHS, REACH SvHC

Available in plastic or metal body

Available in blue for singlemode and in beige for multimode

░ APPLICATION

Telecommunications networks
Local area networks
Data processing networks
Cable television
Premises distribution
Test and laboratory equipment
Industrial and military applications

	SINGLE MODE PC APC	MULTIMODE	CONFORMANCE
Insertion Loss (Typ)	<0.25 dB	<0.20 dB	IEC 61300-3-4
Mating Durability	500		IEC 61300-2-2
Receptacle Retention Force	2 N – 5.9 N (2.5mm), 1 N - 3 N (1.25mm)		IEC 61754
Operating Temperature	-25 to +70 ℃, 12 cycles		IEC 61300-2-22

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Hybrid Adaptor
(Male to Female)

⁘ DESCRIPTION

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Available in plastic or metal body

Available in blue for singlemode and in beige for multimode

⁘ APPLICATION

Telecommunications networks
Local area networks
Data processing networks
Cable television
Premises distribution
Test and laboratory equipment
Industrial and military applications

	SINGLE MODE PC APC	MULTIMODE	CONFORMANCE
Insertion Loss (Typ)	<0.25 dB	<0.20 dB	IEC 61300-3-4
Mating Durability	500		IEC 61300-2-2
Receptacle Retention Force	2 N – 5.9 N (2.5mm), 1 N - 3 N		IEC 61754
Force	(1.25mm)		
Operating Temperature	-25 to +70 °C, 12 cycles		IEC 61300-2-22

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ORDERING INFORMATION

Standard Adaptors Ordering Information

Type		Mode		Form		Mode		Product		Flange	
LC	LC	Ultra Physical Contact	UPC	Simplex	SX	SM	OS1	Adaptor	A	Flange	
SC	SC	Angled Physical Contact	APC	Duplex	DX	OM1	OM1			Flangeless	FL
ST	ST	Physical Contact	PC	Quad	QA	OM2	OM2				
FC	FC					OM3	OM3				
						OM4	OM4				
						OM5	OM5				

Hybrid Adaptors Ordering Information

Supplier Code		Product Code		Male End		Female End		Structure		Mode		Zirconia Sleeve and Metal Housing
UP	UP	HAR	Hybrid Adaptor	FC	FC	FC	FC	MF	Male to Female	9	OS1/OS2	Z1N
				FCA	FC APC	FCA	FC APC	FM	Female to Male	62	OM1	
				LC	LC	LC	LC			50	OM2	
				LCA	LC APC	LCA	LC APC			OM3	OM3	
				SC	SC	SC	SC					
				SCA	SC APC	SCA	SC APC					
				ST	ST	ST	ST					
				STA	ST APC	STA	ST APC					
				E2	E2000							
				E2A	E2000 APC							
				SMA	SMA							

ORDER CODE STUDY CASE

UP	HAR	FC	LC	MF	9	Z1N

Meaning that: Hybrid Adaptor, FC LC Type, Male to Female, OS1/OS2, Zirconia Sleeve and Metal Housing

FC Attenuator

DESCRIPTION

Fiber Optic attenuator is used to reduce the optical power level of a communication signal, in an optical fiber used in a fiber optic communication link. They use different principles of functioning like gap-loss, absorptive or reflective techniques. Three basic types of Fiber optical attenuators are step wise variable, continuously variable and fixed.

FEATURES

Plug-in type package
Accurate attenuation
Ultra-low back reflection
Broad wavelength band
Flat response over all wavelengths
Environmentally stable

APPLICATION
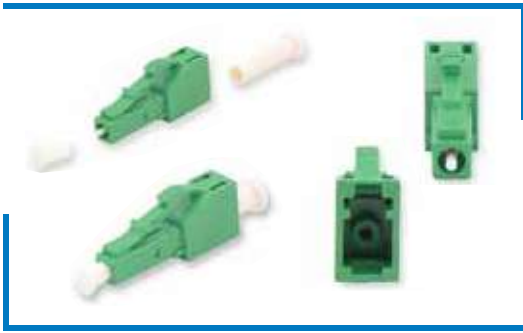
Telecommunication networks
Fibre optic sensors
Test and measurement
CATV
LAN and WAN
FTTX

SPECIFICATIONS

Parameter

Available Range of Attenuation	1 to 30 dB with 1 dB increments
Operating Wavelength	1310 and 1550 nm (or single wavelength)
Operating Band Pass	Dual Window 1310 and 1550 nm (±25 nm)
Attenuators ≤10dB	± 0.5 dB
Attenuators 11 to 30 dB	± 1dB
Reflectance	UPC = 50 dB APC = 60 dB
International Standard	Telcordia GR-910-CORE

LC Attenuator

⁜ DESCRIPTION

Fiber Optic attenuator is used to reduce the optical power level of a communication signal, in an optical fiber used in a fiber optic communication link. They use different principles of functioning like gap-loss, absorptive or reflective techniques. Three basic types of Fiber optical attenuators are step wise variable, continuously variable and fixed.

⁜ FEATURES

Plug-in type package
Accurate attenuation
Ultra-low back reflection
Broad wavelength band
Flat response over all wavelength
Environmentally stable

⁜ APPLICATION

Telecommunication networks
Fibre optic sensors
Test and measurement
CATV
LAN and WAN
FTTX

⁜ SPECIFICATIONS

Parameter

Available Range of Attenuation	1 to 30 dB with 1 dB increments
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International Standard	Telcordia GR-910-CORE

DESCRIPTION

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FEATURES

Plug-in type package
Accurate attenuation
Ultra-low back reflection
Broad wavelength band
Flat response over all wavelengths
Environmentally stable

APPLICATION

Telecommunication networks
Fibre optic sensors
Test and measurement
CATV
LAN and WAN
FTTX

SPECIFICATIONS

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▒ DESCRIPTION

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▒ FEATURES

Plug-in type package

Accurate attenuation

Ultra-low back reflection

Broad wavelength band

Flat response over all wavelengths

Environmentally stable

▒ APPLICATION

Telecommunication networks
Fibre optic sensors
Test and measurement
CATV
LAN and WAN
FTTX

▒ SPECIFICATIONS

Parameter

Available Range of Attenuation	1 to 30 dB with 1 dB increments
Operating Wavelength	1310 and 1550 nm (or single wavelength)
Operating Band Pass	Dual Window 1310 and 1550 nm (±25 nm)
Attenuators ≤10dB	± 0.5 dB
Attenuators 11 to 30 dB	± 1dB
Reflectance	UPC = 50 dB APC = 60 dB
International Standard	Telcordia GR-910-CORE

MU Attenuator

DESCRIPTION

Fiber Optic attenuator is used to reduce the optical power level of a communication signal, in an optical fiber used in a fiber optic communication link. They use different principles of functioning like gap-loss, absorptive or reflective techniques. Three basic types of Fiber optical attenuators are step wise variable, continuously variable and fixed.

FEATURES

Plug-in type package

Accurate attenuation

Ultra-low back reflection

Broad wavelength band

Flat response over all wavelengths

Environmentally stable

APPLICATION

Telecommunication networks
Fibre optic sensors
Test and measurement
CATV
LAN and WAN
FTTX

SPECIFICATIONS

Parameter

Available Range of Attenuation	1 to 30 dB with 1 dB increments
Operating Wavelength	1310 and 1550 nm (or single wavelength)
Operating Band Pass	Dual Window 1310 and 1550 nm (±25 nm)
Attenuators ≤10dB	± 0.5 dB
Attenuators 11 to 30 dB	± 1dB
Reflectance	UPC = 50 dB APC = 60 dB
International Standard	Telcordia GR-910-CORE

ORDERING INFORMATION

Supplier Code		Product Code		Mode		Type		Attenuation		Wawe Length		Length	
UP	UP	Plug-in Attenuator	PIA	Ultra Physical Contact	UPC	LC	LC	1dB	1	1310nm & 1550nm	A	60cm.	06
		Adaptor Attenuator	AA	Angled Physical Contact	APC	SC	SC	2dB	2	1240 1600nm	B	1 meter	10
		In-Line Attenuator	ILA	Physical Contact	PC	ST	ST	5dB	5				
						FC	FC	10dB	10				
						MU	MU	15dB	15				
						E2000	E2	20dB	20				
						MTRJ	MT						

ORDER CODE STUDY CASE

UP	AR	U	LC	S	S

| UP	ILA	UPC	LC	1	A	06

Means that In-Line Attenuator, Ultra Physical Contact Mode, LC Type 1dB Attenuation, 1310nm & 1550nm Wave Length, Cable Length is 60cm

PATCH CORDS

A Fiber optic patch cord is a fiber optic cable having onnectors at the end that allow it to be rapidly and conveniently connected to an optical switch, CATV or other telecommunication equipments. Patch cords are made from either single or multi-fiber cables either single fiber or multiple-fiber connector. The connectors are selected to mate with the interfacing equipment or cable connectors. Patch Cord cables (Sometime called Patch lead as well) cable has a connector at each end. The buffering type can be either tight or loose. The cable diameters are varying from 1.2 mm to 3.0 mm.
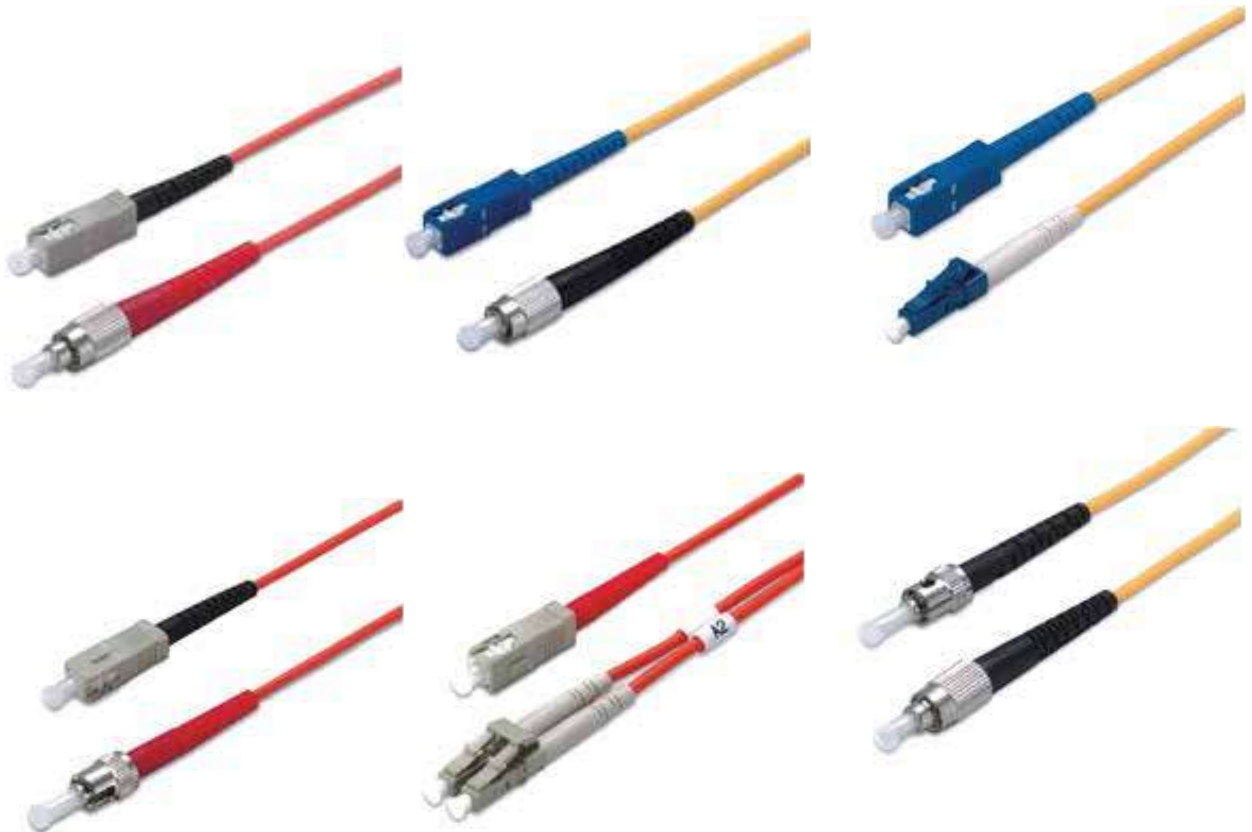
OS2 9/125 Single Mode Simplex Patch Cords

DESCRIPTION

We have standard range of patch cords that provide an optimised and cost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datcom. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects. The patch cords are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufatured with precision factory mounting and polishing techniques which guarrantee a high transmission quality.

FEATURES

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket. Printing helps clarify and recognize different
- cables. Factory terminated and tested for insertion
- loss, return loss and end face. Standard connectors LC, SC, ST, FC, LSH,
- MTRJ, MU are available. Singlemode (OS2) and multimode (OM1,
- OM2, OM3, OM4, OM5) are available.

APPLICATION

- Enterprise
- Datacom
- FTTX
- Broadband network
- Local Area Network and Wide Area Network (LAN and WAN)
- Community Antenna Television Network (CATV Network)
- Telecommunications Network

Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

DESCRIPTION

We have standard range of patch cords that provide an optimised and cost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datacom. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects.The patch cords are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufactured with precision factory mounting and polishing techniques which guarrantee a high transmission quality.

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APPLICATION

- Enterprise
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Optic Fiber Connector Types

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Lucent Connector
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Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

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Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

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OM1 62.5/125 Multimode Patch Cords

DESCRIPTION

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APPLICATION

- Enterprise
- Datacom
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- Telecommunications Network

Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

OM2 50/125 Multimode Patch Cords

DESCRIPTION

We have standard range of patch cords that provide an optimised and cost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datacom. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects.The patch cords are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufactured with precision factory mounting and polishing techniques which guarrantee a high transmission quality.

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- Datacom
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- Local Area Network and Wide Area Network (LAN and WAN)
- Community Antenna Television Network (CATV Network)
- Telecommunications Network

Optic Fiber Connector Types

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Datacom

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- High quality zirconia ferrules.
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Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

OM4 40 100Gb 50/125 Multimode Patch Cords

※ DESCRIPTION

We have standard range of pigtails that provide an optimised and cost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datacom. The pigtails provide 900 μm buffered fibre for ease of handling in fibre management such as panels, splice cassettes and wall boxes. The pigtails are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufactured with precision factory mounting and polishing techniques which helps assure high transmission quality.

※ FEATURES

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket.
- Printing helps clarify and recognize different cables.
- Factory terminated and tested for insertion loss, return loss and end face.
- Standard connectors LC, SC, ST, FC are available.
- Singlemode (OS2) and multimode (OM1, OM2, OM3, OM4, OM5) are available.

※ APPLICATION

- Enterprise
- Datacom
- FTTX
- Broadband network
- Local Area Network and Wide Area Network (LAN and WAN)
- Community Antenna Television Network (CATV Network)
- Telecommunications Network

Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

OM5 40G 100G 50/125 Multimode Patch Cords

⁙ DESCRIPTION

We have standard range of patch cords that provide an optimised and cost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datacom. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects.The patch cords are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufactured with precision factory mounting and polishing techniques which guarrantee a high transmission quality.

⁙ FEATURES

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket.
- Printing helps clarify and recognize different cables.
- Factory terminated and tested for insertion loss, return loss and end face.
- Standard connectorsLC, SC, ST, FC, LSH, MTRJ, MU are available.
- Singlemode (OS2) and multimode (OM1, OM2, OM3, OM4, OM5) are available.

⁙ APPLICATION

- Enterprise
- Datacom
- FTTX
- Broadband network
- Local Area Network and Wide Area Network (LAN and WAN)
- Community Antenna Television Network (CATV Network)
- Telecommunications Network

Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

Tailor Made
Standard Patch Cords

DESCRIPTION

We have standard range of patch cords that provide an optimised andcost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datacom. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects.The patch cords are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufactured with precision factory mounting and polishing techniques which guarrantee a high transmission quality.

FEATURES

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket.
- Printing helps clarify and recognize different cables.
- Factory terminated and tested for insertion loss,return loss and end face.
- Standard connectors LC, SC, ST, FC, LSH, MTRJ, MU are available.
- Singlemode (OS2) and multimode (OM1, OM2, OM3, OM4, OM5) are available.

APPLICATION

- Enterprise
- Datacom
- FTTX
- Broadband network
- Local Area Network and Wide Area Network (LAN and WAN)
- Community Antenna Television Network (CATV Network)
- Telecommunications Network

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Electrical Parameters for Patch Cords

SPECIFICATION

OPTICAL FIBER PERFORMANCE	SINGLE MODE	MULTIMODE	In compliance with
Insertion Lost (Max. - factory tested)	0.30 dB	0.30 dB	IEC 61300-3-4
Average/Random	0.30 dB	0.25 dB	IEC 61300-3-34
Return Loss (Min.)	50 dB	20 dB*	IEC 61300-3-6

*Return Loss data related to a randomly picked sample data

CHARACTERISTICS	UNITS	SIMPLEX	DUPLEX (ZIP design)
Cable Jacket Material		LSZH	LSZH
Strength Member		Aramid Yarn	Aramid Yarm
Crush Resistance	N	1000	1000
Operating Temperature	°C	-20 to +60	-20 to +60
Minimum Bending Radius (for non-circular cables, the cable diameter is the minor dimension)	mm	10D (Dynamic) 20D (Static)	10D (Dynamic) 20D

ADDITIONAL INFORMATION

MECHANICAL PROPERTIES	REFFERENCE	In compliance with
Mechanical endurance	500 matings	IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	IEC 61300-2-12
Cable retention	Magnitude 50 N	IEC 61300-2-4

ORDERING INFORMATION

Supplier Code		Product Code		Connector End Face A		Connector End Face B		Fiber Optic Core Type		Cable Form		Cable Colour*		Cable Diameter		Cable Length	
FCB	UP	Patch Cord	PC	FC	FC	FC	FC	9	OS1/OS2	D	Duplex LSZH	YE	Yellow	2mm	2mm	1	1 metre
				LC	LC	LC	LC	OM1	OM1	S	Simplex LSZH	OR	Orange	3mm	3mm	2	2 metre
				SC	SC	SC	SC	OM2	OM2			AQ	Aqua			3	3 metre
				ST	ST	ST	ST	OM3	OM3			EV	Erika Violet			5	5 metre
								OM4	OM4							10	10 metre
																xxx	Other

ORDER CODE STUDY CASE

Means that: PC-LC Type Patch Cord, with OM3 Optic Core Type, Cable Form Doublex with Aqua Colored, LSZH Jacket with a thickness of 2mm and 5m long

UP	PC	LC	SC	OM3	D	AQ	2MM	5

Single Mode Pigtails

DESCRIPTION

We have standard range of pigtails that provide an optimised and cost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datacom. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects. The patch cords are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufactured with precision factory mounting and polishing techniques which guarrantee a high transmission quality.

FEATURES/BENEFITS

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket. Printing helps clarify and recognize different
- cables.
  Factory terminated and tested for insertion
- loss, return loss and end face.
  Standard connectors LC, SC, ST, FC are
- available.
  Singlemode (OS2) and multimode (OM1,
- OM2, OM3, OM4, OM5) are available.

APPLICATION

- Patch panels, wall boxes, ODFs and splice cassettes
- Enterprise
- Datacom
- LAN and WAN
- FTTX
- Broadband network

Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

Multimode Pigtails

DESCRIPTION

We have standard range of pigtails that provide an optimised and cost effective solution for most applications including enterprise, Local Area Network and Wide Area Network (LAN and WAN), Community Antenna Television Network (CATV Network) and Datacom. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects.The patch cords are terminated with our optimised range of physical contact (single mode & multimode) zirconia ceramic ferrule connectors. These are manufactured with precision factory mounting and polishing techniques which guarrantee a high transmission quality.

FEATURES/BENEFITS

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket.
- Printing helps clarify and recognize different cables.
- Factory terminated and tested for insertion loss, return loss and end face.
- Standard connectors LC, SC, ST, FC are available.
- Singlemode (OS2) and multimode (OM1, OM2, OM3, OM4, OM5) are available.

APPLICATION

- Patch panels, wall boxes, ODFs and splice cassettes
- Enterprise
- Datacom
- LAN and WAN
- FTTX
- Broadband network

Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

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Fan-out Pigtails

DESCRIPTION

Fan out fiber optic pigtails are usually 1XN structure, at the N end of the fan out fiber pigtail, it can be terminated with different kinds of connectorsFiber optic fan-outs are designed for patch panels or cable ducts where space-saving is required. typical connectors used are SC/ST/FC/LC, single mode or multimode, UPC/APC/PC polished types, at the other end of the fan out fiber optic pigtail, sometimes there is MTP/MPO connectors, sometimes without termination of fiber optic connectors. The patch panels have either array fusion splicing (between outside plant cables and bare ribbon pigtails) or array interconnections (MPO/MTP fan-out). For cables that run from patch panels to equipment or patch panels to patch panels,the fan-out cords with either ribbon cables or distribution cables can save space for cable ducts. Distribution cables are more rugged than ribbon cables.Most popular connectors, such as SC, FC, ST, LC, E2000, MU, DIN, D4, and MPO/MTP are available. A fan-out cord can have MPO/MTP at one end, and fan-out terminated with single fiber connectors at the other end. The fan-out tube has a choice of 900um or 2mm.

FEATURES/BENEFITS

4, 6, 8 and 12-fiber available

Save the space in duct and shorten the installation time

900um, or 2mm fan-out Tube available

Jacketed ribbon cables, bare ribbons, or distribution cables

Low insertion loss High return loss High stability and reliability

High temperature stability

In compliance with Telcordia GR-326-CORE

APPLICATION

- Telecommunication networking
- Long haul networks
- CATV networks
- Building interconnections
- Data transmission networks
- Computer networks
- Cabling system
- Interconnection of fiber optic transmission equipments
- ODF of optical transmission systems
- FTTX applications

Optic Fiber Connector Types

1 LC

Long Form
Lucent Connector
Little Connector
Local Connector

Typical Applications
High-density connections, SFP and SFP+ transceivers, XFP transceivers

2 SC

Long Form
Subscriber Connector/Square Connector/Standard Connector

Typical Applications
Datacom and telecom, GPON, EPON, GBIC

3 ST

Long Form
Straight Tip

Typical Applications
Datacom

4 FC

Long Form
Ferrule Connector or Fiber Channel

Typical Applications
Dataom, telecom, measurement equipment, single - mode lasers

SPECIFICATION

OPTICAL FIBER PERFORMANCE	SINGLE MODE	MULTIMODE	In compliance with
Insertion Lost (Max. - factory tested)	0.20 dB	0.20 dB	IEC 61300-3-4
Average/Random	0.30 dB	0.20 dB	IEC 61300-3-34
Return Loss (Min.)	50 dB	20 dB*	IEC 61300-3-6

*Return Loss data related to a randomly picked sample data

CHARACTERISTICS	UNITS	SIMPLEX
Crush	N/100 mm	500
Operating Temperature	°C	-20 to 60
Stripping Length - Easy Strip	m	1.5 minimum
Stripping Length - Tight buffer	mm	30 nominal
Nominal buffer Diameter	μm	900 ± 50
Max Tensile Load	N	6

Supplier Code		Product Code		Connector End Face		Fiber Optic Core Type		Cable Length		Cable Form	
UP	UP	Patch Cord	PGT	FC	FC	9	OS1/0S2	1	1 metre	TB	Tight Buffer
				LC	LC	OM1	OM1	2	2 metre	E-12/1B	Easy strip Pack of 12 colours
				SC	SC	OM2	OM2				
				ST	ST	OM3	OM3				
						OM4	OM4				

ORDER CODE STUDY CASE

UP	PGT	LC	OM3	1	TB

Means that: Pigtail with LC Type Connector, OM3 Type Optic Core,

1 Meter length, Tight Bufferred

MEDIA CONVERTERS
& CHASSIS

COPPER TO FIBER MEDIA CONVERTER
FAST ETHERNET MEDIA

10/100Base-TX to 100Base-BX 20km Single Fiber WDM Media Converter

10/100Base-TX to 100Base-BX 40km Single Fiber WDM Media Converter

10/100/1000Base-T to 1000Base-BX 80km Single Fiber WDM Media Converter

10/100Base-TX to 100Base-FX Multimode 2km Fiber Media Converter

10/100Base-TX to 100Base-FX SFP Fiber Media Converter

10/100Base-TX to 100Base-FX Single-mode 100km Fiber Media Converter

10/100Base-TX to 100Base-FX Single-mode 120km Fiber Media Converter

10/100Base-TX to 100Base-FX Single-mode 20km Fiber Media Converter

10/100Base-TX to 100Base-FX Single-mode 40km Fiber Media Converter

10/100Base-TX to 100Base-FX Single-mode 80km Fiber Media Converter

GIGABIT ETHERNET MEDIA

10/100/1000Base-T to 1000Base-BX 20km Single Fiber WDM Media Converter

10/100/1000Base-T to 1000Base-BX 40km Single Fiber WDM Media Converter

10/100/1000Base-T to 1000Base-BX 80km Single Fiber WDM Media Converter

10/100/1000Base-T to 1000Base-EX Single-mode 40km Fiber Media Converter

10/100/1000Base-T to 1000Base-EZX Single-mode 100km Fiber Media Converter

10/100/1000Base-T to 1000Base-LX Single-mode 20km Fiber Media Converter

10/100/1000Base-T to 1000Base-SX Multimode 550m Fiber Media Converter

10/100/1000Base-T to 1000Base-SX/LX/EX/ZX SFP Media Converter

10/100/1000Base-T to 1000Base-ZX Single-mode 80km Fiber Media Converter

MINI MEDIA CONVERTER

10/100Base-TX to 100Base-FX Multimode 2km Mini Media Converter

The full range of Media Converters and technical specifications may seen on our website.

COPPER TO FIBER MEDIA CONVERTER
FAST ETHERNET MEDIA

⸭ DESCRIPTION

The FEM 20x Series is a Fast Ethernet media converter designed to convert 10/100BASE-TX copper to 100BASE-BX single fiber. This media converter uses Wavelength-Division Multiplexing (WDM) technology, enabling Bi-Directional communication over a single fiber, doubling the capacity of your existing fiber infrastructure without having to install new cabling.

Engineered with high-quality fiber optical transceiver, which provides a good electrical characteristics to ensure reliable data transmission and long working life. 6 Group LED indicated lights could fully monitor the working conditions of Media Converters. It is easy for end-users to observe network operation. This media converter provide external power as default, it can be as a stand-alone unit, or inserted into Upcom's low-cost 14-slot Media Converter Rack Chassis that allows all the media converters to be powered by a single internal power supply.

The FEM 20x series 10/100BASE-TX to 100BASE-BX WDM media converter provides 20 km(12.4 miles) transmit distance over single fiber at wavelength of Tx1310nm/Rx1550nm or Tx1550nm/RX1310nm. It is provided with SC, ST and FC connector option for different users.

⸭ FEATURES

• Auto negotiation function allows UTP port to auto select 10M or 100M, and Full Duplex or Half Duplex

• UTP port supports MDI/MDI-X auto crossover

• Indicator function of link fault (LFP): When optical fiber or UTP is at fault, the converter could stop all the link

• Multiple Optical Transceiver could be chosen: SC, ST or FC

• Adopts WDM technology, transmitting and receiving data on one single fiber

• Easy-to-view LED indicators provide monitoring of network system easily

• Compliant with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX, 100Base-BX Standards

• Internal Circuit of prevented thunder could greatly reduce damage of the converter caused by thunderbolt induction

• ROHS compliant and Lead Free

10/100Base-TX to 100Base-BX 20km Single Fiber WDM Media Converter

SPECIFICATION

Product Series	WDM Fiber Media Converter	Standards and Protocols	IEEE 802.3, IEEE 802.3u, IEEE 802.3x
Ports	1 x 10/100BASE-TX RJ45 port 1 x 10/100BASE-BX Single SC port (ST or FC also available)	Network Media	10Base-T: Cat 5 UTP (maximum 100m) 100Base-T: Cat 5 UTP (maximum 100m) 100Base-BX: Single-mode Fiber Cable (maximum 20km)
Flow control	Full Duplex: IEEE802.3x Half Duplex: back pressure	LED indicator	Power, FX 100, FX Link/Act TX 100, TX FDX, TX Link/Act
Buffer space	128KB	MAC address	1K
Wavelength	1310 nm or 1550nm	Fiber Type	Single Fiber
Transmitter Power	-14 ~ -3 dBm	Receiver Sensitivity	< -34 dBm
Power Supply	External Power Adapter Input: AC 100~240V 50/60Hz Output: DC 5V 1A	Power Consumption	2.5W
Dimensions (WxDxH)	26x70x93mm	Gross Weight	0.5 kg
Environment	Operating: 0°C to 50°C, 10~90% RH Storage: -40°C to 70°C, 5~90% RH	Compliance	FDA IEC/EN 60825-1 ROHS, CE

10/100/1000Base-T to 1000Base-BX 20km Single Fiber WDM Media Converter

GIGABIT ETHERNET MEDIA

⠿ DESCRIPTION

The GEM-x20x Series is a Gigabit Ethernet media converter designed to convert 10/100/1000BASE-T copper to 1000BASE-BX single fiber. This media converter uses Wavelength-Division Multiplexing (WDM) technology, enabling Bi-Directional communication over a single fiber and doubling the capacity of your existing fiber infrastructure network without having to install new cabling.

The MC-GSB11-x20x series WDM media converter provides 20 km(12.4 miles) transmit distance over single fiber at wavelength of TX1310nm/RX1550nm or TX1550nm/RX1310nm. It is provided with SC, ST and FC connector option for different users.

The GEM-x20x is engineered with high-quality fiber optical transceiver, which provides a good electrical characteristics to ensure reliable data transmission and long working life. 6 Group LED indicated lights could fully monitor the working conditions of media converter. It is easy for end-users to observe network operation. This WDM media converter provide external power as default, it can be as a stand-alone unit, or inserted into Upcom's low-cost 14-slot Media Converter Rack Chassis that allows all the media converters to be powered by a single internal power supply.

⠿ FEATURES

- Cost-effective migration from Gigabit copper to Gigabit fiber
- Auto negotiation function allows UTP ports to auto select 10/100/1000M and Full Duplex or Half Duplex
- The UTP port supports the connection of MDI/MDI-X auto crossover
- Multiple fiber port could be chosen: SC, ST or FC
- Adopts WDM technology,transmitting and receiving data on a single fiber
- Single strand of single-mode Fiber: the max distance up to 20km
- Supporting flow control
- Easy-to-view LED indicators provide status to monitor network activity easily
- Compacts size for easy installation and working with Upcom 14-Slot Rack-mount Chassis UP-RACK-14
- ROHS compliant and Lead Free

⋮⋮⋮ SPECIFICATION

Product Series	WDM Fiber Media Converter	Standards and Protocols	IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3z
Ports	1 x10/100/1000BASE-T RJ45 port 1 x 1000BASE-BX SC port (ST or FC also available)	Network Media	10/100/1000Base-T: Cat 5 UTP (maximum100m) 100Base-T: Cat 5 UTP (maximum 100m) 100Base-BX: Single-mode Fiber Cable (maximum 20km)
Flow control	Full Duplex: IEEE802.3x Half Duplex: back pressure	LED indicator	POWER (power) FX LINK (fiber link action) TP LINK1000 (twisted pair connection 1000M) TP LINK100 (twisted pair connection 100M) TP ACT (twisted pair packet forwarding action) FDX (Ethernet interface mode indicator,ON:Full duplex OFF: Half duplex)
Buffer space	256 KB	MAC address	4K
Wavelength	1310 nm or 1550nm	Fiber Type	Single Fiber
Transmitter Power	-9 ~ -3 dBm	Receiver Sensitivity	< -22 dBm
Power Supply	External Power Adapter Input: AC 100~240V 50/60Hz Output: DC 5V 1A	Power Consumption	2.5W
Dimensions (WxDxH)	26x70x93mm	Gross Weight	0.5 kg
Environment	Operating: 0°C to 50°C, 10~90% RH Storage: -40°C to 70°C, 5~90% RH	Compliance	FDA IEC/EN 60825-1 ROHS, CE

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10/100Base-TX to 100Base-FX Multimode 2km Mini Media Converter

MINI MEDIA CONVERTER

◈ DESCRIPTION

The MFEM 02x series is a Micro Mini Fast Ethernet Media Converter designed for desktop and mobile applications that require light weight, compact size, and low power. This Mini media converter provides cost-effective, entry-level media conversion between 10/100BASE-TX copper to 100BASE-FX fiber. The compact media converter provides with a small size which is ideal for locations where space is limited. The converter is plug-and-play with an RJ-45 port that supports auto-negotiation with speed, duplex mode, and crossover functions for PCs with 10BASE-T and 100BASE-TX Ethernet. The 100BASE-FX fiber port operates at the 1310nm wavelength over multi-mode fiber and support distances up to 2 km(1.2 miles), and available in SC, ST or FC fiber connectors.

◈ FEATURES

- Auto-negotiation function allows UTP port to auto select 10M or 100M, and Full Duplex or Half Duplex
- UTP port supports MDI/MDI-X auto crossover
- Multiple fiber connectors could be chosen: SC, ST or FC
- LED indicators for power, RJ-45, and fiber port status
- Compliant with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX, 100Base-FX Standards
- Internal Circuit of prevented thunder could greatly reduce damage to the converter caused by thunderbolt induction
- Small and light, weighs only 90 grams

⚛ SPECIFICATION

Product Series	Mini Media Converter	Standards and Protocols	IEEE 802.3, IEEE 802.3u, IEEE 802.3x
Ports	1 x10/100/1000BASE-TX RJ45 port 1 x 10/100BASE-FX SC port (ST or FC also available)	Network Media	10Base-T: Cat 5 UTP (maximum 100m) 100Base-T: Cat 5 UTP (maximum 100m) 100Base-FX: Multi-mode Fiber Cable (maximum 2km)
Flow control	Full Duplex: IEEE802.3x Half Duplex: back pressure	LED indicator	Power, FX 100, FX Link/Act TX 100, TX FDX, TX Link/Act
Buffer space	128 KB	MAC address	1K
Wavelength	1310 nm	Fiber Type	Multi-mode Fiber
Transmitter Power	-19 ~ -10 dBm	Receiver Sensitivity	< -30 dBm
Power Supply	External Power Adapter Input: AC 100~240V 50/60Hz Output: DC 5V 1A	Power Consumption	< 2.0W
Dimensions (WxDxH)	23x50x54mm	Gross Weight	0.25 kg
Environment	Operating: 0°C to 50°C, 10~90% RH Storage: -40°C to 70°C, 5~90% RH	Compliance	FDA IEC/EN 60825-1 ROHS, CE

ORDERING INFORMATION

Supplier Code	Type		Speed		Wavelength		Connector		Distance		Power Adaptor		Power Supply	
UP	MCF	MC Fast Ethernet	2	10/100/1000M	M	Multimode	SC	SC connector	1	550 Metre 850 nm MM	EU	Euro Type	E	External
	MMCF	Mini MC			S	Single mode	LC	LC connector	2	2km 1300nm MM	US	US Type	I	Internal
							FC	FC connector	20	20km SM	UK	UK Type		
							ST	ST connector	40	40km SM	AU	AU Type		
									60	60km SM				
									80	80km SM				
									100	100km SM				
									120	120km SM				

ORDER CODE
STUDY CASE

UP	MCF	2	M	SC	2	EU	E

Means that: Singlemode Gigabit RJ45 - SC Euro Power 1Gbs Media Converter 2km with an external power supply

14-Slot Media Converter Rack-mount Chassis with Dual Power Supply

CHASSIS

DESCRIPTION

The 14-Slot Media Converter Rack-mount Chassis is specially designed to accommodate Upcom Media Converters for central power supply, saving space and power cables. The great choice of Media Converters ensures the highest flexibility. Redundant, fan-cooled load-sharing power supplies can be hot-swapped to ensure system uptime. This 14-Slot media converter chassis can work with FEM and GEM series fiber media converters.

FEATURES

• Dual independent hot plug power modules as default
• Supports 14 media converters
• Supplying the converters or powers to be plugged and played
• 2U high: 19-inch standard design
• Stable performance, large capacity of power supply, and ease of management and maintenance
• Completely status LED indicator, easy to install and maintain

SPECIFICATION

Product Series	Media Converter Rack-mount Chassis	Capacity	14-slot
Power Supply	Dual Power Supply Input: AC 100~240V 50/60Hz Output: DC 5V 12A	Power Consumption	60W
Dimensions	485(wide) x 245(length) x 90(high) mm	Gross Weight	6.5 kg
Environment	Operating: 0°C to 50°C, 10~90% RH Storage: -40°C to 70°C, 5~90% RH	Compliance	ROHS, CE

Upcom Part Number	Description
UP-RACK-14	14-Slot Media Converter Rack-mount Chassis for Stand-alone Converters

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www.upcom.com.tr
info@upcom.com.tr
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CHASSIS

16-Slot Media Converter Rack-mount Chassis with Dual Power Supply

DESCRIPTION

The 16-Slot Rack-mount Chassis is specially designed to accommodate Upcom card-type media converters for central power supply, saving space and power cables. The 16-Slot Rack-mount Chassis is acceptable for the most 16 sets of different Media Converter Cards within a rack-mountable chassis which is supplied with unified power. Installing at the center of network, it can not only reduce the links, simplify the structure, but also ease for management and maintenance. The 16-Slot Chassis can work with single power supply or dual power supply as users wish, when the power supply should be maintained or changed, it is not necessary to pull-out the converters, this makes the maintenance easy. With all these advantages, this option can supply users with an effective solution of networks.

The 16-Slot media converter chassis can be tidily placed at any network environment. The external form of RACK is simple and tidy. It is ready for 10/100Mbps, 10/100/1000Mbps Converter Card to be plugged in, and will be the best solution of network connections for the continuous development of network. This option supports hot-swap convert modules.

FEATURES

• Dual independent hot plug power modules as default

• Supports 16 card-type media converters

• Supplying the converters or powers to be plugged and played

• 2U high: 19 inch standard design

• Stable performance, large capacity of power supply, and ease for management and maintenance

• Completely status LED indicator, easy to install and maintain

SPECIFICATION

Product Series	Media Converter Rack-mount Chassis	Capacity	16-slot
Power Supply	Dual Power Supply Input: AC 100~240V 50/60Hz Output: DC 5V 12A	Power Consumption	60 W
Dimensions	485(wide) x 245(length) x 90(high) mm	Gross Weight	6.5 kg
Environment	Operating: 0℃ to 50℃, 10~90% RH Storage: -40℃ to 70℃, 5~90% RH	Compliance	ROHS, CE

Upcom Part Number	Description
UP-RACK-16	16-Slot Media Converter Rack-mount Chassis for Card-Type Converters

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www.upcom.com.tr
info@upcom.com.tr
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MPO Cassette

MPO Fiber Optic Cassette 2 x MPO-12 Male to 6 x Quad LC, 50/125 Multimode OM3, 24 Fiber

DESCRIPTION

Upcom MPO Fiber Optic Cassette Module are designed for secure transition between MPO and LC discrete connectors. It's suitable for high-density back plane and data center cabling which offers excellent benefits in terms on-site installation time and space saving. This Fiber Optic Cassette Module kit includes two pre-terminated MPO to 12 x LC multimode 10G OM3 fiber optic harness cable, two MPO adapter in back, 6 x LC quad adapters in the front and the cassette module that the fiber is routed and connected inside of it. The MPO cassette module is built with high quality components to ensure overall network reliability. This compact and modular MPO cassette module provide you a quick, reliably, high performance and efficient way to deploy up to 6 x LC quad fiber ports pairs in a single module, allowing for maximum density in limited spaces. The cassette module can be mounted in 1U, 2U, 3U or 4U 19" multi-slot MPO/MTP fiber panel or enclosure.

FEATURES

• Factory-terminated provide consistent quality, high performance and reduce installation time
• 100% tested for low insertion loss performance and high return loss
• Simplifies cable management and allows for higher density
• Cassettes can be easily mounted on the patch panel, designed for MPO/MTP ultra
   high density panel system
• Laser-Optimized multimode 10G OM3 fiber
• Dual MPO adapter, male (with pins)
• 6x Quad LC adapters in the front, 24 Fiber
• RoHS Compliant

SPECIFICATION

Fiber Type	50/125μm Multimode OM3	Fiber Count	24-Fiber
Connector Type	Front: 6 Quad LC, Rear: 2 MPO Male	Polish	PC to PC
Dimensions (WxDxH)	130x112x30mm	Test Wavelength	850 nm
Insertion Loss	MPO≤0.6dB, LC≤0.3dB	Return Loss	≥20dB
Polarity	Type A	Durability	≥500 times
Jacket Material	PVC	Jacket Color	N/A
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Data Centre Infrastructure Fiber Optic Network Infrastructure High Density Fiber Management

MPO Cassette

DESCRIPTION

Upcom MPO Fiber Optic Cassette Module are designed for secure transition between MPO and LC discrete connectors. It's suitable for high-density back plane and data center cabling which offers excellent benefits in terms on-site installation time and space saving. This Fiber Optic Cassette Module kit includes a pre-terminated MPO to 6 x LC duplex multimode 10G OM3 fiber optic harness cable, a MPO adapter in back, 6 x LC duplex adapters in the front and the cassette module that the fiber is routed and connected inside of it. The MPO cassette module is built with high quality components to ensure overall network reliability. This compact and modular MPO cassette module provide you a quick, reliably, high performance and efficient way to deploy up to 6 x LC duplex fiber ports pairs in a single module, allowing for maximum density in limited spaces. The cassette module can be mounted in 1U, 2U, 3U or 4U 19" multi-slot MPO/MTP fiber panel or enclosure.

FEATURES

• Factory-terminated provide consistent quality, high performance and reduce installation time
• 100% tested for low insertion loss performance and high return loss
• Simplifies cable management and allows for higher density
• Suitable for MPO application
• Laser-Optimized multimode OM3 fiber
• Cassettes can be easily mounted on the patch panel, designed for MPO/MTP ultra high density panel system
• Optimized performance – available in elite MPO
• RoHS Compliant

SPECIFICATION

Fiber Type	50/125μm Multimode OM3	Fiber Count	12-Fiber
Connector Type	Front: 6xLC Duplex, Rear: 1 MPO Male	Polish	PC to PC
Dimensions (WxDxH)	130x112x30mm	Test Wavelength	850 nm
Insertion Loss	MPO≤0.6dB, LC≤0.3dB	Return Loss	≥20dB
Polarity	Type A	Durability	≥500 times
Jacket Material	PVC	Jacket Color	N/A
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Data Centre Infrastructure Fiber Optic Network Infrastructure High Density Fiber Management

MPO Cassette

DESCRIPTION

Upcom MPO Fiber Optic Cassette Module are designed for secure transition between MPO and LC discrete connectors. It's suitable for high-density back plane and data center cabling which offers excellent benefits in terms on-site installation time and space saving. This Fiber Optic Cassette Module kit includes a pre-terminated MPO to 6 x LC duplex 9/125 singlemode OS2 fiber optic harness cable, a MPO adapter in back, 6 x LC duplex adapters in the front and the cassette module that the fiber is routed and connected inside of it. The MPO cassette module is built with high quality components to ensure overall network reliability. This compact and modular MPO cassette module provide you a quick, reliably, high performance and efficient way to deploy up to 6 x LC duplex fiber ports pairs in a single module, allowing for maximum density in limited spaces. The cassette module can be mounted in 1U, 2U, 3U or 4U 19" multi-slot MPO/MTP fiber panel or enclosure.

FEATURES

• Factory-terminated provide consistent quality, high performance and reduce installation time
• 100% tested for low insertion loss performance and high return loss
• Simplifies cable management and allows for higher density
• Suitable for MPO application
• 9/125 singlemode OS2 fiber
• Cassettes can be easily mounted on the patch panel, designed for MPO/MTP ultra high density panel system
• Optimized performance – available in elite MPO
• RoHS Compliant

SPECIFICATION

Fiber Type	9/125µm Singlmode OS2	Fiber Count	12-Fiber
Connector Type	Front: 6xLC Duplex, Rear: 1 MPO Male	Polish	PC to PC
Dimensions (WxDxH)	130x112x30mm	Test Wavelength	1310 nm
Insertion Loss	MPO≤0.6dB, LC≤0.3dB	Return Loss	≥55dB
Polarity	Type A	Durability	≥500 times
Jacket Material	PVC	Jacket Color	N/A
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Data Centre Infrastructure Fiber Optic Network Infrastructure High Density Fiber Management

MPO Male to 6xSC Duplex
50/125 Multimode OM3
Fiber Optic Cassette

MPO Cassette

DESCRIPTION

Upcom MPO Fiber Optic Cassette Module are designed for secure transition between MPO and SC discrete connectors. It's suitable for high-density back plane and data center cabling which offers excellent benefits in terms on-site installation time and space saving. This Fiber Optic Cassette Module kit includes a pre-terminated MPO to 6 x SC duplex multimode 10G OM3 fiber optic harness cable, a MPO adapter in back, 6 x SC duplex adapters in the front and the cassette module that the fiber is routed and connected inside of it. The MPO cassette module is built with high quality components to ensure overall network reliability. This compact and modular MPO cassette module provide you a quick, reliably, high performance and efficient way to deploy up to 6 x SC duplex fiber ports pairs in a single module, allowing for maximum density in limited spaces. The cassette module can be mounted in 1U, 2U, 3U or 4U 19" multi-slot MPO/MTP fiber panel or enclosure.

FEATURES

•Factory-terminated provide consistent quality, high performance and reduce installation time
• 100% tested for low insertion loss performance and high return loss
• Simplifies cable management and allows for higher density
• Suitable for MPO application
• Laser-Optimized multimode OM3 fiber
• Cassettes can be easily mounted on the patch panel, designed for MPO/MTP ultra high density panel system
• Optimized performance – available in elite MPO
• RoHS Compliant

SPECIFICATION

Fiber Type	50/125μm Multimode OM3	Fiber Count	12-Fiber
Connector Type	Front: 6xSC Duplex, Rear: 1 MPO Male	Polish	PC to PC
		Test	
Dimensions (WxDxH)	130×112×30mm	Wavelength	850 nm
Insertion Loss	MPO≤0.6dB, LC≤0.3dB	Return Loss	≥20dB
Polarity	Type A	Durability	≥500 times
Jacket Material	PVC	Jacket Color	N/A
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Data Centre Infrastructure Fiber Optic Network Infrastructure High Density Fiber Management

50/125 Multimode OM4 MPO Fiber Optic Trunk Cable 12 Fiber, Female to Female Polarity A, LSZH

MPO/MTP TRUNK CABLES

DESCRIPTION

The requirements for data center infrastructures are increasing as the rapid growth in worldwide IT usage continues. As an experienced and innovative fiber optic patch cable manufacturer, Upcom supplies complete MPO trunk fiber optic cabling solutions for high-density optical connectivity in the modern data center. Compared with the traditional fiber optic cabling solutions, this high-density fiber optic solution offers higher flexibility and space saving while support very high data rates, such as 40-Gigabit Ethernet and 100-Gigabit Ethernet.

Upcom's 50/125 Multimode OM4 MPO Fiber Optic Trunk Cable, 12 Fiber, Female to Female, Polarity A, LSZH is factory pre-terminated 50/125 Multimode OM4 MPO trunk cable, offering user the advantage of consistent quality, much faster installation and simpler cable management. The MPO fiber optic trunk cable is manufactured with multiple, 12-strand MPO female to female connectors and 12 core laser-optimized OM4 fiber optic cables. The trunk cable is conform to Method A (Straight) polarity, and MTP connector is available upon request. This OM4 MPO trunk cable is suitable for used in MPO fiber optic cassette connection.

FEATURES

• Factory-terminated provide consistent quality,high performance and reduce installation time
• 100% tested for low insertion loss performance and high back reflection
• Fiber Count: 12 fiber trunk cable
• Suitable for MPO cassette application
• Laser-Optimized multimode OM4 fiber
• Type A polarity for fiber patch panel connection
• Optimized performance – available in elite MTP and discrete premium connector upon request
• Comply with IEC 61754-7,TIA/EIA 604-5,Telcordia GR-1435-CORE and RoHS
• LSZH Jacket by Default

SPECIFICATION

| Fiber Type	50/125µm Multimode OM4	Fiber Count	12-Fiber
Connector Type	MPO Female to MPO Female	Polish	PC to PC
Cable Length	1m,2m,3m … 400m or Customize	Test Wavelength	3.0 mm
Insertion Loss	≤0.6dB	Return Loss	≥20dB
Polarity	Type A (Straight)	Durability	≥200 times
Jacket Material	LSZH	Jacket Color	Aqua
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Optical switching interframe connections High density fiber card edge access Array trunk cables

UPC●M

50/125 Multimode OM4 MPO Fiber Optic Trunk Cable 12 Fiber, Female to Female Polarity B, LSZH

MPO/MTP TRUNK CABLES

▓ DESCRIPTION

The requirements for data center infrastructures are increasing as the rapid growth in worldwide IT usage continues. As an experienced and innovative fiber optic patch cable manufacturer, Upcom supplies complete MPO trunk fiber optic cabling solutions for high-density optical connectivity in the modern data center. Compared with the traditional fiber optic cabling solutions, this high-density fiber optic solution offers higher flexibility and space saving while support very high data rates, such as 40-Gigabit Ethernet and 100-Gigabit Ethernet.

Upcom's 50/125 Multimode OM4 MPO Fiber Optic Trunk Cable, 12 Fiber, Female to Female, Polarity B, LSZH factory pre-terminated 50/125 Multimode OM4 MPO trunk cable, offering user the advantage of consistent quality, much faster installation and simpler cable management. The MPO fiber optic trunk cable is manufactured with multiple, 12-strand MPO female to female connectors and 12 core laser-optimized OM4 fiber optic cables. The trunk cable is conform to Method B (Cross-Connect) polarity, and MTP® connector is available upon request. This OM4 MPO trunk cable is suitable for used in QSFP SR4, QSFP eSR4 and 100G QSFP28 SR4 optics connection.

▓ FEATURES

- Factory-terminated provide consistent quality,high performance and reduce installation time
- 100% tested for low insertion loss performance and high back reflection
- Fiber Count: 12 fiber trunk cable
- Suitable for MPO application
- Laser-Optimized multimode OM4 fiber
- Type B polarity, used for 40G QSFP eSR4 and 100G QSFP28 SR4 optics
- Optimized performance – available in elite MTP and discrete premium connector upon request
- Comply with IEC 61754-7,TIA/EIA 604-5,Telcordia GR-1435-CORE and RoHS
- LSZH Jacket by Default

▓ SPECIFICATION

Fiber Type	50/125µm Multimode OM4	Fiber Count	12-Fiber
Connector Type	MPO Female to MPO Female	Polish	PC to PC
Cable Length	1m,2m,3m … 400m or Customize	Test Wavelength	3.0 mm
Insertion Loss	≤0.6dB	Return Loss	≥20dB
Polarity	Type B (Straight)	Durability	≥200 times
Jacket Material	LSZH	Jacket Color	Aqua
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Optical switching interframe connections High density fiber card edge access Array trunk cables

MPO/MTP TRUNK CABLES

DESCRIPTION

The requirements for data center infrastructures are increasing as the rapid growth in worldwide IT usage continues. As an experienced and innovative fiber optic cable manufacturer, Upcom supplies complete MPO trunk fiber optic cabling solutions for high-density optical connectivity in the modern data center. Compared with the classical fiber optic cabling solutions, this high-density fiber optic solution offers higher flexibility and space saving while support very high data rates, such as 40-Gigabit Ethernet and 100-Gigabit Ethernet.

Upcom's 9/125µm OS2 Single Mode MPO Fiber Optic Trunk Cable, 12 Fiber, Female to Female, Polarity A, LSZH is factory pre-terminated 9/125 OS2 Single Mode MPO trunk cable, which offers user the advantage of consistent quality, much faster installation and simpler cable management. The MPO fiber optic trunk cable is manufactured with multiple, 12-strand MPO female to female connectors to give 12 core fiber cables. The trunk cable is conform to Method A (Straight) polarity, and MTP® connector is available upon request. This MPO trunk cable is suitable for used in patch panel connection.

FEATURES

- Factory-terminated provide consistent quality,high performance and reduce installation time
- 100% tested for low insertion loss performance and high back reflection
- Fiber Count: 12 fiber trunk cable
- Suitable for MPO application
- Singlemode OS2 fiber
- Type A polarity for fiber patch panel connection
- Optimized performance – available in elite MTP and discrete premium connector upon request
- Comply with IEC 61754-7,TIA/EIA 604-5,Telcordia GR-1435-CORE and RoHS
- LSZH Jacket by Default

SPECIFICATION

Fiber Type	9/125µm Singlemode OS2	Fiber Count	12-Fiber
Connector Type	MPO Female to MPO Female	Polish	APC to APC
Cable Length	1m,2m,3m … 500m or Customize	Test Wavelength	3.0 mm
Insertion Loss	≤0.7dB	Return Loss	≥55dB
Polarity	Type A (Straight)	Durability	≥200 times
Jacket Material	LSZH	Jacket Color	Yellow
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Optical switching interframe connections High density fiber card edge access Array trunk cables

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www.upcom.com.tr
info@upcom.com.tr
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MPO/MTP TRUNK CABLES

DESCRIPTION

The requirements for data center infrastructures are increasing as the rapid growth in worldwide IT usage continues. As an experienced and innovative fiber optic patch cable manufacturer, Upcom supplies complete MPO trunk fiber optic cabling solutions for high-density optical connectivity in the modern data center. Compared with the classical fiber optic cabling solutions, this high-density fiber optic solution offers higher flexibility and space saving while support very high data rates, such as 40-Gigabit Ethernet and 100-Gigabit Ethernet.

Upcom's 9/125μm Single Mode OS2 MPO Fiber Optic Trunk Cable, 12 Fiber, Female to Female, Polarity B, LSZH is factory pre-terminated 9/125μm Single Mode OS2 MPO trunk cable, which offers user the advantage of consistent quality, much faster installation and simpler cable management. The MPO fiber optic trunk cable is manufactured with multiple, 12-strand MPO female to female connectors to give 12 core fiber cables. The trunk cable is conform to Method B (Cross-Connect) polarity, and MTP® connector is available upon request. This MPO trunk cable is suitable for used in 40G PSM parallel optics connection.

FEATURES

- Factory-terminated provide consistent quality,high performance and reduce installation time
- 100% tested for low insertion loss performance and high back reflection
- Fiber Count: 12 fiber trunk cable
- Suitable for MPO application
- Singlemode OS2 fiber
- Available in polarity type A, B or C
- Optimized performance – available in elite MTP and discrete premium connector upon request
- Comply with IEC 61754-7,TIA/EIA 604-5,Telcordia GR-1435-CORE and RoHS
- LSZH Jacket by Default

SPECIFICATION

Fiber Type	9/125μm Singlemode OS2	Fiber Count	12-Fiber
Connector Type	MPO Female to MPO Female	Polish	APC to APC
Cable Length	1m,2m,3m … 500m or Customize	Test Wavelength	3.0 mm
Insertion Loss	≤0.7dB	Return Loss	≥55dB
Polarity	Type B (Corssover)	Durability	≥200 times
Jacket Material	LSZH	Jacket Color	Yellow
Environment	Operating: -20°C to 70°C Storage: -40°C to 85°C	Application	Optical switching interframe connections High density fiber card edge access Array trunk cables

MPO System

MPO is a high-density, space saving optical fiber connection which has been designed to maximize space and provide high bandwidth links. The plug-and-play system is pre-measured and pre-terminated at the factory.

MPO system solutions allow users to achieve complete end-to-end cabling in keeping with the new standard for data centers. In the IEEE 802.3 standard, 40 Gb/s and 100Gb/s were defined with MPO connector technology. MPO connectors enable parallel transmission, as the multi-gigabit transmission signals are split across parallel fibers and aggregated by the electronic equipment.

MPO cable is connected with MPO couplers, one of the MPO (Multi-Fiber Push On) connectors must have pins, need to be male type. These pins precisely align the mating fibers in the MPO connectors.

POLARITY CHART
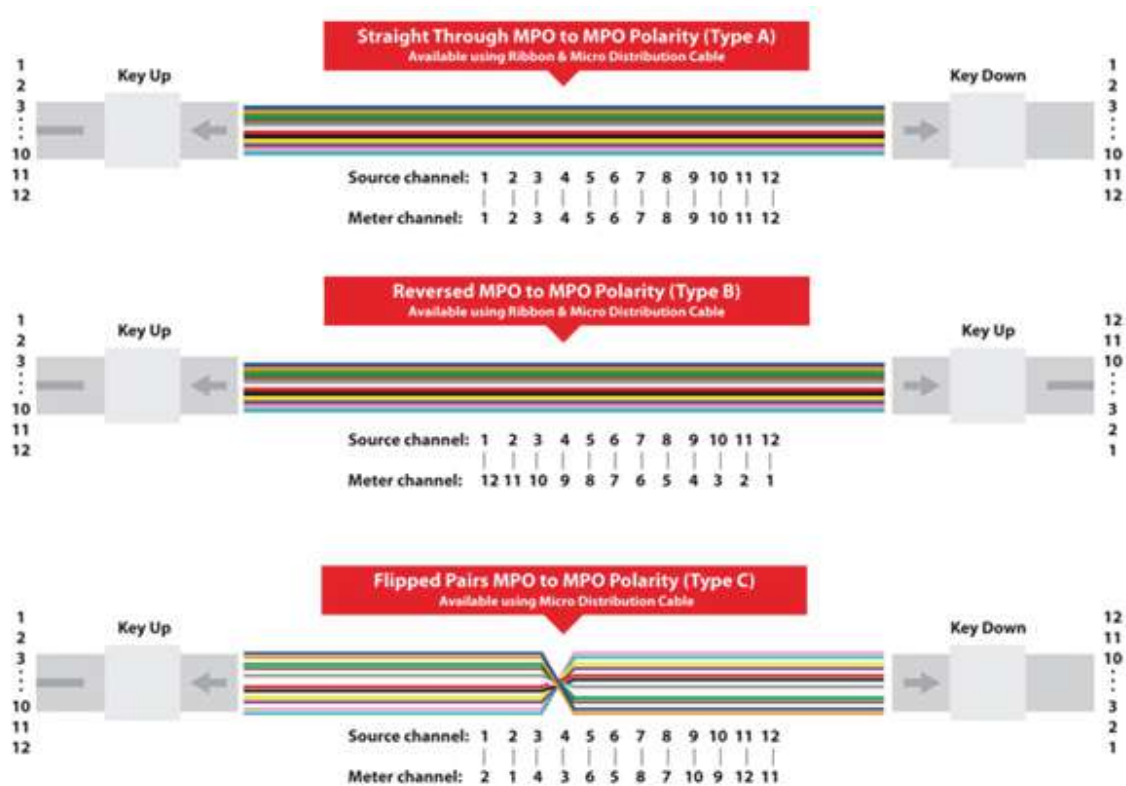
SPLITTERS

FBT Coupler Splitters
PLC Splitters

Upcom offers a variety of box and cassette type splitter modules and products. PLC (1U Rack Mount PLC Splitter, ABS PLC Splitter, Bare PLC Splitter, Blockless PLC Splitter, Mini Plug-in Type PLC Splitter) & FBT Splitter Modules are available in the form of either plastic module cassette (an ABS box) with ruggedized fiber jackets of 2mm and up to 3mm, or LGX metal box for plug and play splitter applications. The Upcom PLC splitter family features the whole series of 1 x N and 2 x N splitter boxes and modules that are tailored for specific applications. All splitters provide excellent optical performance and reliability that meet GR-1221-CORE and GR-1209-CORE specifications.

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ABS Box FBT
Couplers Splitters
LC/SC/FC - MxN
Singlemode

Bare PLC Splitter
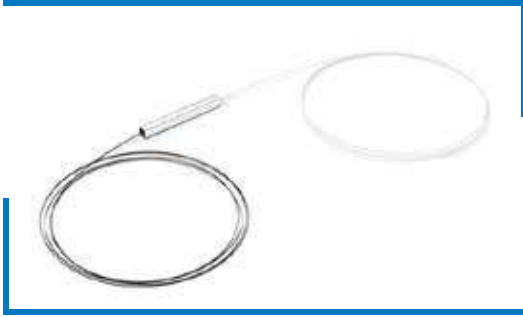
◈ DESCRIPTION

Bare Fiber PLC Splitter is the most common splitter type in FTTx applications to realize optical signal power splitting. Bare fiber are left on all its end. In this way it enables you to splice as per your application.

Bare fiber PLC Splitters are suitable for PON networks that can be in the pigtail cassette, test instrument and WDM system, which requires the least space during cabling. It is relatively fragile on fiber protection and need a complete protection design on carrying box body and device.

BLOCKLESS
PLC SPLITTERS

DESCRIPTION

Blockless fiber PLC splitters split one wavelength into many by using PLC (Planar lightwave circuit) technology. It's engineered using silica optical waveguide technology to split and distribute the optical lightwave from Center to several locations.

Operating at wavelength range from 1260 to 1650nm. As this type of spllitters have no fan-out block, you can save space and achieve smaller splitter modules.

Blockless PLC splitters are featuring a stronger splice protection compared to bare fiber splitter, which is a miniaturization result of cassette splitter. It's mainly used for various connection and distribution boxes or network cabinets.

1*N PLC splitter module and 2*N PLC splitter module are available.

ABS BOX PLC SPLITTER

DESCRIPTION

ABS Box PLC splitters split one wavelength into many by using PLC (Planar lightwave circuit) technology. It's engineered using silica optical waveguide technology to split and distribute the optical lightwave from Center to several locations.

1*N PLC splitter module and 2*N PLC splitter module are available.
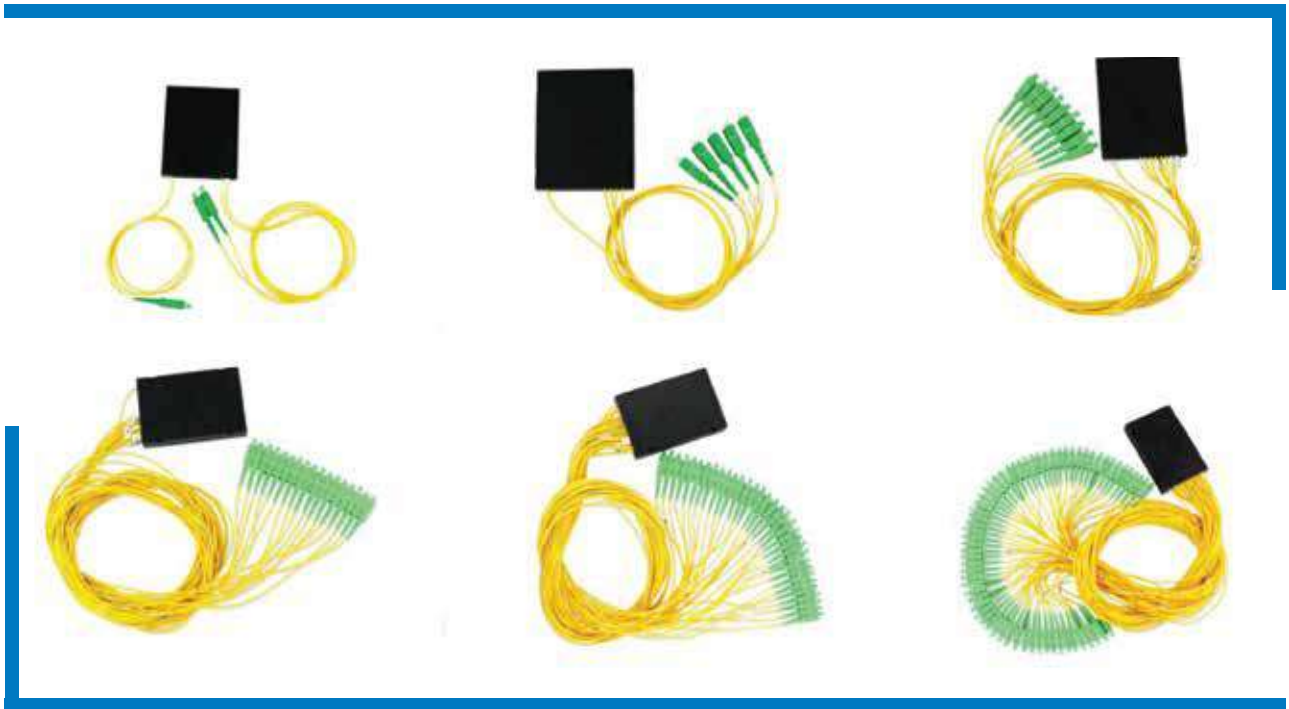
LGX BOX PLC SPLITTER

⠿ DESCRIPTION

LGX Box PLC Splitters split one wavelength into many by using PLC (Planar lightwave circuit) technology. It's engineered using silica optical waveguide technology to split and distribute the optical lightwave from Central to several locations.

LGX Box PLC Splitters are provide a cost cutting advantage and occupies a small space comparing to similar products. It can correspond to your ever changing networking requirements. Thanks to its compact design and size, they can be used in in-ground and aerial and also 19" rack systems.

MINI PLUG-IN TYPE PLC SPLITTER

▓ DESCRIPTION

Mini Plug-in Type PLC Splitters split one wavelength into many by using PLC (Planar lightwave circuit) technology. It's engineered using silica optical waveguide technology to split lightwaves.

Mini plug-in PLC type splitter has small compact design but strong protection. Suitable to FTTH wall mount box and fiber distribution box for fiber optic signal distribution.

Mini Plug-in Type PLC Splitters provide a cost cutting advantage provides a various of 1xN and 2xN PLC splitters, including 1x2 to 1x64 and 2x2 to 2x64 Mini Plug-in type fiber PLC splitters. They are all with superior optical performance, high stability and high reliability to meet various application requirements.

1U RACK MOUNT PLC SPLITTER

⬡ DESCRIPTION

Rack Mount PLC Splitter split one wavelength into many by using Planar lightwave circuit called PLC technology. It's engineered using silica optical waveguide technology to split lightwaves.

The PLC Modules feature low insertion loss, low polarization dependent loss, and high port uniformity. The Splitter Modules are available 1xN and 2xN PLC splitters, including 1x2 to 1x64 and 2x2 to 2x64.
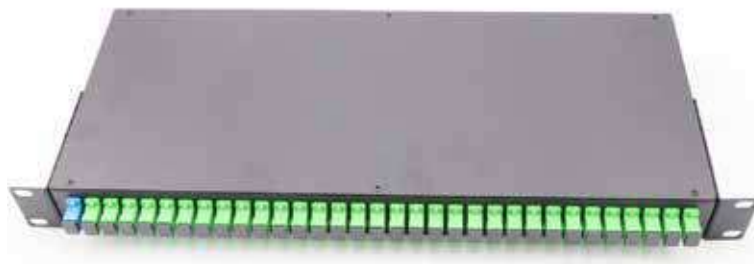
Dome Closure

In-line Closure

Wall-Outlet Boxes

Splice Tray

Termination Boxes

Accessories

Fusion Splice Protectors

Fiber Pedestal and Anchoring Clamps

DOME CLOSURES

Heat Shrinkable Sealing Dome Closures

The heat shrinkable seal dome closures combine proven fiber management with highly reliable sealing system and able to withstand harsh conditions.

The Mechanical Sealing Dome Enclosures

The mechanical sealing dome enclosures that we supply you is suitable for aerial, underground, wall-mounting, manhole mounting and duct-mount applications. Engineered from injection moulded, high-strength engineering PC plastic, it is robust and resistant to physical strike caused by extreme temperatures, oxygen and ultraviolet radiation. Having a compartment tray to store excess fiber. A variety of port configurations available, each made from high quality of raw material and products are UL listed.

Product Name	Dome Closure				
Upcom Model	UP-DC-209A	UP-DC-204A/B	UP-DC-P204A/B	UP-DC-221C	UP-DC-360A/B
Picture					
LxWxH	288mm x 178 mm (11.3 x 7")	450mm x 230 mm (17.7 x 9")	450mm x 230 mm (17.7 x 9")	450mm x 230mm (9 x 17.7")	450mm x 230 mm (17.7 x 9")
Tray Splice Capacity (Max) - 24C Per Tray	48 fibers / 4 trays	144 fibers / 6 trays	144 fibers / 6 trays	120 fibers / 24 trays	144 fibers / 6 trays
Splice Tray	UP-TRAY-037	UP-TRAY-204A, max 6 trays	UP-TRAY-204A, max 6 trays	UP-TRAY-204A, max 4 trays	UP-TRAY-204A, max 6 trays
		UP-TRAY-204B, max 7 trays	UP-TRAY-204B, max 7 trays	UP-TRAY-204B, max 5 trays	UP-TRAY-204B, max 7 trays
				UP-TRAY-204C, max 5 trays	
Port Capacity	1x round, loop cable with max φ21mm.	1x oval: loop cable φ24mm max	1x oval: loop cable φ24mm max	1x oval: loop cable φ24mm max	1x round, loop cable with max φ16mm.
	3 round, drop cable with max 16mm.	4x round: drop cable φ17.5mm max.	4x round: drop cable φ17.5mm max.	4x round: drop cable φ17.5mm max.	4x round: drop cable φ17.5mm max.
Basic Items (Included)	Dome	Dome	Dome	Dome	Dome
	Base	Base	Base	Base	Base
	Clamp	Clamp	Clamp	Clamp	Clamp
	O-ring	O-ring	O-ring	O-ring	O-ring
	Heat Shrink Sealing Tubes	Heat Shrink Sealing Tubes	Heat Shrink Sealing Tubes	Heat Shrink Sealing Tubes	Heat Shrink Sealing Tubes
	Installation Manual	Installation Manual	Installation Manual	Installation Manual	Installation Manual
	Optional Accessories (Excluded)				
Application Optional Accessories	Wall mount kit	Wall mount kit	Wall mount kit	Wall mount kit	Wall mount kit
	Pole mount kit	Pole mount kit	Pole mount kit	Pole mount kit	Pole mount kit
	Aerial mounting kit	Aerial mounting kit	Aerial mounting kit	Aerial mounting kit	Aerial mounting kit
	Air valve	Air valve	Air valve	Air valve	Air valve
	Grounding device	Grounding device	Grounding device	Grounding device	Grounding device
Grommets					9x cables dia. Ø2x5mm
					9x cable dia. Ø3.1x2, Ø3 mm
					4x cable dia. Ø7mm
					1x cable, Ø17.5mm
Misc					

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Product Name	Dome Closure			
Upcom Model	UP-DC-306A/B-32SC	UP-DC-220A/B/C-BC6	UP-DC-220D/E-BD6	UP-DC-222
Picture				
LxWxH	450mm x 230 mm (17.7 x 9")	488mm x 285mm (19 x 11.2")	566mm x 285mm (22x11.2")	566mm x 285mm (22x11.2")
Tray Splice Capacity (Max) - 24C Per Tray	72 fibers / 3 trays	288 fibers / 12 trays	288 fibers / 12 trays	864 fibers / 12 trays
Splice Tray	UP-TRAY-204A, max 2 trays	UP-TRAY-204A, max 12 trays	UP-TRAY-102A, max 12 trays	UP-TRAY-222, max 12 trays
	UP-TRAY-204B, max 3 trays	UP-TRAY-204B, max 12 trays	UP-TRAY-102B, max 12 trays	
		UP-TRAY-204C, max 12 trays		
Port Capacity	1x round, loop cable with max ϕ16mm	1x oval - loop cable with maxϕ30 mm.	1x oval: loop cable ϕ30mm max.	1x oval: loop cable ϕ30mm max.
	4x round: drop cable ϕ17.5mm max.	6x round - drop cable with maxϕ30mm.	6x round - drop cable with maxϕ30mm.	6x round - drop cable with maxϕ30mm.
Basic Items (Included)	Dome	Dome	Dome	Dome
	Base	Base	Base	Base
	Clamp	Clamp	Clamp	Clamp
	O-ring	O-ring	O-ring	O-ring
	Heat Shrink Sealing Tubes	Heat Shrink Sealing Tubes	Heat Shrink Sealing Tubes	Heat Shrink Sealing Tubes
	Installation Manual	Installation Manual	Installation Manual	Installation Manual
	Optional Accessories (Excluded)			
Application Optional Accessories	Wall mount kit	Wall mount kit	Wall mount kit	Wall mount kit
	Pole mount kit	Pole mount kit	Pole mount kit	Pole mount kit
	Aerial mounting kit	Aerial mounting kit	Aerial mounting kit	Aerial mounting kit
	Air valve	Air valve	Air valve	Air valve
	Grounding device	Grounding device	Grounding device	Grounding device
Grommets	9x cables dia. Ø2x5mm			
	9x cable dia. Ø3.1x2, Ø3 mm			
	4x cable dia. Ø7mm			
	1x cable, Ø17.5mm			
Misc	SC/PC adapter, Simplex			
	SC/APC adapter, Simplex			

IN LINE CLOSURES

Fiber Optic Inline Splice closures are engineered to protect splices and ensure reliability. Can be placed in aerial, underground, wall mounting, and duct mounting locations. Suitable to protect fiber cable splices in straight through and branching applications. Its well-engineered injection molded outer body makes it impenetrable to the elements. You can find a wide variety of In Line closures here.

The full range of Standard In Line Closures and technical specifications may seen on our website

Product Name	In Line Closure				
Upcom Model	UP-ILC-F02	UP-ILC-F01	UP-ILC-102	UP-ILC-106	UP-ILC-101
Picture					
LxWxH	179mm x 72mm x 26mm	300mm x 107mm x 38 mm	400mm x 185mm x 90 mm	432mm x 186 mm x 100mm	280 mm x 200mm x 90mm
Splice Capacity	4 fibers	12 fibers	96 fibers	96 fibers / 4 trays	96 fibers / 4 trays
Splice Tray				UP-TRAY-X3	UP-TRAY-023
Port Capacity	2 x round : cable for Φ6mm max.	4x round : cable Φ10mm max.	2x round : cable Φ16mm max.	4x round : cable Φ16mm max.	2x round : cable Φ14 mm max.
			4x round : cable Φ13mm max.		
Basic Items (Included)	In line closure set Tools Installation manual	In line closure set Tools Installation manual	In line closure set Tools Installation manual	In line closure set Installation manual	In line closure set Installation manual
	Optional Accessories (Excluded)				
Application Optional Accessories		Hanging hook	Hanging hook	Hanging hook	Hanging hook
					Wall mounting kit
Misc			Air valve	Air valve	Air valve
			Grounding device	Grounding device	Grounding device

Product Name	In Line Closure			
Upcom Model	UP-ILC-F02	UP-ILC-F01	UP-ILC-102	UP-ILC-106
Picture				
LxWxH	323 mm x 202 mm x 86mm	323 mm x 202 mm X 86mm	420mm x 127mm x 72mm	643mm x 175mm x 76mm
Splice Capacity	96 fibers / 8 trays	48 fibers / 4 trays	48 fibers / 2 trays	8 fibers
Splice Tray	UP-TRAY-023	UP-TRAY-037		
Port Capacity	2 x round : cable for Φ 20mm max.	2 x round : cable for Φ20mm	4 ports:1 cable with max φ16 mm	4 ports:1 cable with max φ16 mm
	2 x round : cable for Φ 16mm max.	2 x round : cable for Φ16mm		4 ports:1 cable with max φ8 mm
	2 x round : cable for Φ 13mm max.	2 x round : cable for Φ13mm		8 ports:φ 3 mm or 3x2 drop cable
Basic Items	In line closure set Installation manual	In line closure set Installation manual	In line closure set Installation manual	In line closure set Installation manual
	Optional Accessories (Excluded)			
Application Optional Accessories	Hanging hook	Hanging hook	Hanging hook	Hanging hook
	Pole mounting kit	Pole mounting kit		
	Wall mounting kit	Wall mounting kit	Wall mounting kit	Wall mounting kit
Misc	Air valve	Air valve	Air valve	Air valve
	Grounding device	Grounding device	Grounding device	Grounding device
		SC adaptor plate		SC adaptor plate
		SC/PC adapter, Simplex		SC/PC adapter, Simplex
		SC/APC adapter, Simplex		SC/APC adapter, Simplex

FTTH BOXES & OUTLES

Fiber Optic Termination Box are used to joint fiber cable and pigtails and to to protects fiber optic splices for a proper distribution. The termination box is wall-mounting and is mainly used in telecommunication and network equipment rooms. The fiber termination box is of a fiber optic manager that is used to distribute and protect the optical fiber links in FTTH application. Available for the distribution and terminal connection of various kinds of optical fiber system. These units are available in sizes that fit the most common distribution requirements.

The full range of Standard Wall Outlets and technical specifications may seen on our website

Product Name	Wall outlets (FTTH Boxes)			
Upcom Model	UP-FTTH-001	UP-FTTH-308	UP-FTTH-408	UP-FTTH-508
Picture				
Dimension	86 mm x 86 mm x19mm	108.5mm x85mmx 27mm	86mm x86mmx 30.5mm	108.5mm x85mmx 27mm
Max. capacity of fiber splice	2 fibers	4 fibers	2 fibers	4 fibers
Port capacity		3 ports, each port for 1 cable with max Φ10mm	4 ports, 1SC adaptor, 1 RJ45 and 1 RJ11.	2 ports, each port for 1 cable with max Φ10.5mm.
				4 ports, each port for 1 cable with max Φ5mm.
Basic Items	Termination box Installation manual	Termination box Installation manual	Termination box Installation manual	Termination box Installation manual
	Optional Accessories (Excluded)			
Misc			RJ45 or RJ11.	
	SC/PC adapter, simplex	SC/PC adapter, Simplex	SC/PC adapter, Simplex	SC/PC adapter, Simplex
	SC/APC adapter, simplex	SC/APC adapter, Simplex	SC/APC adapter, Simplex	SC/APC adapter, Simplex
	LC/PC adapter, duplex	LC/PC adapter, duplex	LC/PC adapter, duplex	LC/PC adapter, duplex
	LC/APC adapter, duplex	LC/APC adapter, duplex	LC/APC adapter, duplex	LC/APC adapter, duplex

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FIBER OPTIC TERMINATION BOXES

Fiber Optic Termination Box are used to joint fiber cable and pigtails and to to protects fiber optic splices for a proper distribution. The termination box is wall-mounting and is mainly used in telecommunication and network equipment rooms. The fiber termination box is of a fiber optic manager that is used to distribute and protect the optical fiber links in FTTH application. Available for the distribution and terminal connection of various kinds of optical fiber system. These units are available in sizes that fit the most common distribution requirements.

The full range of Standard Termination Boxes and technical specifications may seen on our website

Product Name	Termination Box			
Upcom Model	UP-TB-001	UP-TB-001-8SC	UP-TB-002	UP-TB-008
Picture				
Dimension	264 mm x 154 mm x 56mm	264 mm x 154 mm x 56mm	197 mm x 110 mm x 44 mm	183 mm x 169 mm x 19 mm
Max. capacity of fiber splice	48 fibers / 4 trays	12 fibers / 1 tray	12 fibers / 2 trays	6 fibers
Splice Tray	UP-TRAY-09	UP-TRAY-09	UP-TRAY-037	
Port capacity	2 ports, each port for 1 cable with max Φ16mm.	1 ports, each port for 1 cable with max Φ16mm.	2 ports, each port for 1 cable with max Φ16mm.	2 ports, each port for 1 cable with max Φ10mm.
	24 ports, each port for 1 cable with max Φ3mm.	2 ports, each port for 1 cable with max Φ11mm.		
Basic Items	Termination box Installation manual	Termination box Installation manual	Termination box Installation manual	Termination box Installation manual
	Optional Accessories (Excluded)			
Mouting Kit	Wall mount kit	Wall mount kit	Wall mount kit	Wall mount kit
Misc		SC/PC adapter, simplex		SC/PC adapter, simplex
		SC/APC adapter, simplex		SC/APC adapter, simplex
				LC/PC adapter, duplex
				LC/APC adapter, duplex

Product Name	Termination Box			
Upcom Model	UP-TB-X20A/B	UP-TB-X21A/B	UP-TB-X21D	UP-TB-X30A/B
Picture				
Dimension	260mm x 320mm x 90mm	315mm x 236mm x 100mm	315mm x 236mm x 100mm	200 x 215 x 54mm/247 x 204x70mm
Max. capacity of fiber splice	16 fibers	16 fibers	16 fibers	8 fibers
Splice Tray	UP-TRAY-09	UP-TRAY-09	UP-TRAY-037	
Port capacity	2 cable ports, each port for 1 cable with max Φ12mm.	2 cable ports, each port for 1 cable with max Φ12mm.	2 cable ports, each port for 1 cable with max Φ16mm.	3 cable ports, each port for 1 cable with max Φ12mm.
	16 ports, each port for 1 cable with max Φ3mm.	16 ports, each port for 1 cable with max Φ3mm.	16 ports, each port for 1 cable with max Φ3mm.	8 ports, each port for 1 cable with max Φ3mm.
Basic Items	Termination box Installation manual	Termination box Installation manual	Termination box Installation manual	Termination box Installation manual
	Optional Accessories (Excluded)			
Mouting Kit	Wall mount kit	Wall mount kit	Wall mount kit	Wall mount kit
Misc	Pole mount kit	Pole mount kit	Pole mount kit	Pole mount kit
	SC/PC adapter, simplex	SC/PC adapter, simplex	SC/PC adapter, simplex	SC/PC adapter, simplex
	SC/APC adapter, simplex	SC/APC adapter, simplex	SC/APC adapter, simplex	SC/APC adapter, simplex

Product Name	Termination Box		
Upcom Model	UP-TB-X30C	UP-TB-X48A	UP-TB-Y24
Picture			
Dimension	233mm x 204mm x 77mm	398 mm x 327 mm x 118 mm	306.7mmx245mmx81mm
Max. capacity of fiber splice	8 fibers	144 fibers / 6 trays	96 fibers / 4 trays
Splice Tray			
Port capacity	3 cable ports, each port for 1 cable with max Φ14mm.	2 ports, each port for 2 cable with max Φ20mm.	3 ports, each port for 2 cable with max Φ20mm.
	8 ports, each port for 1 cable with max Φ3mm.	12 ports, each port for 4 cable with max Φ3mm.	24 ports, each port for cable with max Φ3mm.
Basic Items	Termination box Installation manual	Termination box Installation manual	Termination box Installation manual
	Optional Accessories (Excluded)		
Mouting Kit	Wall mount kit	Wall mount kit	Wall mount kit
Misc	Pole mount kit	Pole mount kit	Pole mount kit
	SC/PC adapter, simplex	SC/PC adapter, simplex	SC/PC adapter, simplex
	SC/APC adapter, simplex	SC/APC adapter, simplex	SC/APC adapter, simplex

Product Name	Fiber Pedestal	Anchoring clamps
Upcom Model	-TB-X30C	U-Clamp/S-Clamp
Picture		
H x Dia.	835mmx 280mm	
Material of Housing	HDPE	
Description	Designed specifically for housing passive equipment, these special pedestals feature direct-bury bases with a high rib design that do not require stakes for install- ation. The direct-bury pedestal bases result in a more uniform and secure installation and are less likely to lean or tilt. An optional stake mounting provision is available for joint trench or other special applications. A special self-locating cover security feature ensures that the pedestals lock properly without requiring special alignment.	The main application is for anchoring self-support cable on pole with protection from cable tension, and also can be used for fastening drop cable near to the resident along with the overhead cable.

FUSION SPLICE PROTECTOR

40mm Heat Shrinkable Protection Sleeve

❖ DESCRIPTION

Fusion Splice Heat Shrink Protector Sleeves allow you to quickly and reliably terminate your splices. Fiber Optic Splice Protection Sleeve-Single Fiber 40mm with stainless steel rod as the strengthen member.

Protection sleeves for single fiber

Size: 1.5x40mm

Single stainless steel needle

Outer Dia. after shrinking: 2.9±0.1mm

Dia. of steel needle: 1.5mm

Inner dia. of hot-melt tube: 1.3±0.05 mm

45mm Heat Shrinkable Protection Sleeve

❖ DESCRIPTION

Fusion Splice Heat Shrink Protector Sleeves allow you to quickly and reliably terminate your splices. Fiber Optic Splice Protection Sleeve-Single Fiber 45mm with stainless steel rod as the strengthen member.

Protection sleeves for single fiber

Size: 1.5x45mm

Single stainless steel needle

Outer Dia. after shrinking: 2.9±0.1mm

Dia. of steel needle: 1.5mm

Inner dia. of hot-melt tube: 1.3±0.05 mm

FUSION SPLICE PROTECTOR

60mm Heat Shrinkable Protection Sleeve

DESCRIPTION

Fusion Splice Heat Shrink Protector Sleeves allow you to quickly and reliably terminate your splices. Fiber Optic Splice Protection Sleeve-Single Fiber 60mm with stainless steel rod as the strengthen member.

Protection sleeves for single fiber

Size: 1.5x60mm

Single stainless steel needle

Outer Dia. after shrinking: 2.9±0.1mm

Dia. of steel needle: 1.5mm

Inner dia. of hot-melt tube: 1.3±0.05 mm

Ordering Code	Description
UP-HSPS-40	Heat Shrinkable Protection Sleeves for single fiber - 1.5x40mm
UP-HSPS-45	Heat Shrinkable Protection Sleeves for single fiber - 1.5x45mm
UP-HSPS-60	Heat Shrinkable Protection Sleeves for single fiber - 1.5x60mm
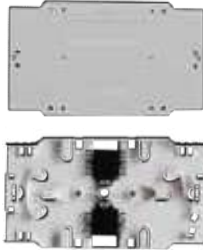
SPLICE TRAY

Upcom's Optical Splice Trays Fiber Optic Splice Trays offer a variety of unique, flexible splice and storage possibilities. They are in a big variety and competible to our enclosures and to the products in the industry. These optical splice trays protect the splice points and organize the fiber splices.

Product Name	Splice Tray			
Upcom Model	UP-TRAY- 09	UP-TRAY-023	UP-TRAY-037	UP-TRAY-101B
Picture				
Splice Capacity	12/24C	6/12C	12/24C	12/24C
LxWxD	6/12C	12/24C	6/12C	12/24C
Dome			UP-DC-209A	JB-101
				JB-101-8ports
		UP-ILC-101	UP-ILC-502	UP-DC-220
In - Line		UP-ILC-103		
Termination	UP-TB-001		UP-TB-002	

Product Name	Splice Tray			
Upcom Model	UP-TRAY-204A	UP-TRAY-204B	UP-TRAY-204C	UP-TRAY-222
Picture				
Splice Capacity	12/24C	12/24C	36/72C	12/24C
LxWxD	12/24C	12/24C	12/24C	36/72C
Dome	UP-DC-204A	UP-DC-204B	UP-DC-221	UP-DC-222
	UP-DC-P204A	UP-DC-P204B	UP-DC-220C-BC6	
	UP-DC--306A	UP-DC--306B		
	UP-DC-306A-32SC	UP-DC-306B-32SC		
	UP-DC-220A-BC6	UP-DC-220B-BC6		
In - Line				
Termination				

Product Name	Splice Tray			
Upcom Model	UP-TRAY-102A	UP-TRAY-102B	UP-TRAY-X1	UP-TRAY-X2
Picture				
Splice Capacity	12/24C	12/24C	12/24C	24C
LxWxD	12/24C	320x100x10mm	225x105x10mm	225x105x10mm
Dome	UP-ILC-102A	UP-ILC-102B		
	UP-ILC-102A-8ports	UP-ILC-SC-102B-8ports		
	UP-DC-220D-BD6	UP-DC-220B-BD6		
In - Line				UP-ILC-106
Termination				

Product Name	Splice Tray				
Upcom Model	UP-TRAY-X3	UP-TRAY-X4-1	UP-TRAY-X4-2	UP-TRAY-X4-3	UP-TRAY-X4-4
Picture					
Splice Capacity	24C	24C	12C/Adaptor/PLC	12C/PLC Splitter	12C/PLC Splitter
LxWxD	180x100x10mm	155x106x14mm	155x106x14mm	155x106x14mm	155x106x14mm
Dome					
In - Line	UP-106				
Termination		UP-TB-X48A/UP-TBY24	UP-TB-X48A/UP-TBY24	UP-TB-X48A/UP-TB-Y24	UP-TB-X48A/UP-TB-Y24

COPPER CONNECTIVITY PRODUCT

Upcom optical cable assemblies provide the vital connectivity links and patching for your network. Our in-house designed and specified assemblies provide 1 to 288 fibres featuring IEC compliant components and a choice of performance levels to suit your network needs.

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UPCOM

Modular Plugs & Boots

CAT 5e UTP
RJ45

DESCRIPTION

Cat5e 8P8C RJ45 male connector is mainly used for twisted pair network cable applications, following FCC standard. When terminating Cat5e male connector, there are two wire schemes to follow: T568A or T568B pin / pair assignment as per ANSI/TIA-568-C.2 standard. Our plugs are compliant with PoE Plus application and certified by REACH and RoHS.

FEATURES

- RoHS compliant.
- Meet reliability test based on IEC 60603-7.

ELECTRICAL FEATURES

- UL Applications: 250 Volts Acmax., AT 2 Amps.
- Dielectric Withstanding Voltage: 500 Volts AC.
- Insulation Resistance: 100 MΩ.
- Termination: Resistance 20mΩ Max After
- Environmental Testing.
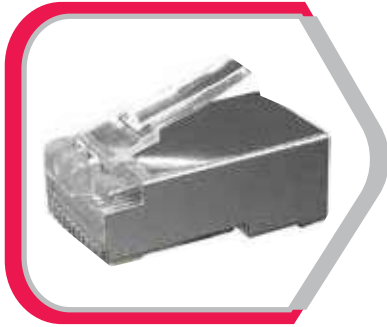
CAT 5e FTP
RJ45

DESCRIPTION

Cat5e FTP 8p8c Modular Plug RJ45 Connector

The Cat5e plugs are commonly used in computer networking and other telephone applications. They are fit to both solid or stranded cables. The plug housing 94V2 or 94V0 is optional. All our modular plugs follow FCC standard.When terminating the Cat. 5e Rj45 connector, follow the T568A or T568B pin / pair assignment as per ANSI / TIA-568-C.2 standard.

FEATURES

- RoHS compliant.
- Follow FCC Part 68 standard; meet reliability test based on IEC 60603-7.

ELECTRICAL FEATURES

- UL Applications: 250 Volts Acmax., AT 2 Amps.
- Dielectric Withstanding Voltage: 500 Volts AC.
- Insulation Resistance: 100 MΩ.
- Termination: Resistance 20mΩ Max After
- Environmental Testing.
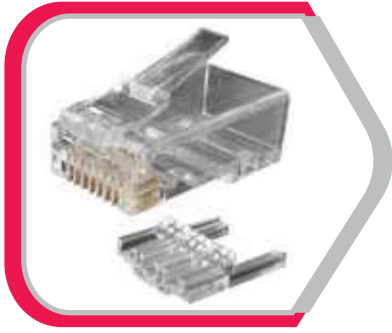
CAT 6 UTP RJ45

DESCRIPTION

Cat6 UTP 8P8C Modular Plug RJ45 Connector

Cat6 8P8C RJ45 male connector is mainly used for twisted pair network cable applications, following FCC standard. When terminating Cat6 RJ45 connector, we use the T568A or T568B pin / pair assignment as per ANSI / TIA-568-C.2 standard. Our plugs are compliant with PoE Plus application and certified by REACH and RoHS.

ELECTRICAL FEATURES

- UL Applications: 250 Volts Acmax., AT 2 Amps.
- Dielectric Withstanding Voltage: 500 Volts AC.
- Insulation Resistance: 100 MΩ.
- Termination: Resistance 20mΩ Max After
- Environmental Testing.
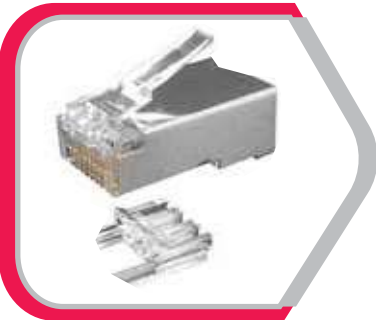
CAT 6 FTP RJ45

DESCRIPTION

Cat6 Shielded 8P8C Modular Plug RJ45 Connector

CAT6 STP RJ45 connectors are fit to both stranded and solid wire. The smart wire position 6up / 2down design bring superior performance when assembly with cat6 shielded cables. All Cat6 plugs we provide 3 to 50U" gold plating thickness. The plugs are commonly used in computer networking and other telephone applications.

Modular Plugs & Boots

UP-PG8001
4P2C plug

UP-PG8002
4P4C plug

UP-PG8005
6P4C plug

UP-PG8008
6P6C plug

UP-PG8021
10P10C plug

UP-PG8025
8P8C plug

UP-PG8015
STP 8P8C plug

UP-PG8022
6P6C plug,UK type

UP-PG8025
Boots for 8P8C   • OD=6.0mm   • OD=7.0mm

UP-PG8026
Boots for 8P8C   • OD=6.0mm   • OD=7.0mm

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Lan Cable Testers

-CT-005

Lan cable tester

- Testing RJ11/12/RJ45 cable
- Testing open, short, cross circuit and cable assignment
- Individual LED to show the defective core
- Each individual core is automatically scanned
- Low/high scan speed adjustable

UP-CT-006

Lan cable tester

- Testing RJ11/12/RJ45 and coaxial cable
- Testing open, short, cross circuit and cable assignment
- Individual LED for PIN1-8 and ground offered
- Each individual core is automatically scanned
- Low/high scan speed adjustable

UP-CT-007

Lan cable tester

- Testing RJ11/12/RJ45 and coaxial cable
- Testing open, short, cross circuit and cable assignment
- Individual LED to show the defective core
- Each individual core is automatically scanned
- Automatic and manual control options

UP-CT-009

4 in 1 Cable tester

- For testing network and modular cable with RJ11/45,BNC,USB connector
- Open/Short wiring test
- Connected wires display
- No wire or termination indication
- Wrong connection or Non-parallel connection display
- Ethernet 10BASE-2/10BASE-5 termination value detection

UP-CT-010

5 in 1 Cable tester

- For testing network and modular cable with RJ11/45,BNC,USB, IEEE1394 connector
- Open/Short wiring test   • Connected wires display
- No wire or termination indication
- Wrong connection or Non-parallel connection display
- Ethernet 10BASE-2/10BASE-5 termination value detection

UP-CT-014

Lan cable tester

- Testing open circuit, short circuit, jumper wire or cross-talk interference for CAT5E, CAT6, coaxial and telephone cable
- Measuring cable length and locating the position of open circuit and short circuit
- Dynamically calibrates cable length to makes length measurement as accurate as 95%
- Simply and easily using, big screen to display testing results
- Portable unit with long battery life (50 hours)
- Automatically time-delay shut off
- Self-checking function and automatically compensates any change in battery capacity or ambient temperature

UP-CT-015

Lan cable tester

- Testing open circuit, short circuit, jumper wire or cross-talk interference for CAT5E, CAT6, coaxial and telephone cable
- Measuring cable length and locating the position of open circuit and short circuit
- Dynamically calibrates cable length to makes length measurement as accurate as 95%

UP-CT-018

Lan cable tester

- Testing open circuit, short circuit, jumper wire or cross-talk interference for CAT5E, CAT6, coaxial and telephone cable
- Simply and easily using, big screen to display testing results
- Portable unit with long battery life (50 hours)
- Automatically time-delay shut off
- Self-checking function and automatically compensates any change in battery capacity or ambient temperature

UP-CT-019

Wire tracker

- Line DC detecting anode and cathode determinant
- Open, short and cross testing for RJ45,RJ11 cable
- Easily tracking the correspondent cable
- Earphone offered can be used to prevent interference from the outside
- Easily work as usual while putting on the light switch in the dark environment

UP-CT-020

Wire tracker

- Line DC detecting anode and cathode determinant
- Open, short and cross testing for RJ45,RJ11 cable
- Easily tracking the correspondent cable
- Earphone offered can be used to prevent interference from the outside
- Easily work as usual while putting on the light switch in the dark environment

UP-CT-021

Wire tracker

- Line DC detecting anode and cathode determinant
- Testing open, short and cross for RJ45,RJ11 cable Easily tracking the correspondent cable
- Earphone offered can be used to prevent interference from the outside
- Easily work as usual while putting on the light switch in the dark environment

UP-CT-022

HDMI cable tester

- Testing HDMI cable
- Testing open, short, cross circuit and cable assignment
- Each individual core is automatically scanned
- Individual LED to show the defective core
- Automatic and manual control options

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Keystone Jack

UP-KJ5-05	UP-KJ6-02

UP-KJ5-05	**UTP Cat.5e keystone jack**

- 110 IDC type, 90 Degree
- With dust cover

UP-KJ6-02	**UTP Cat.6 keystone jack**

- 110 IDC type, 90 Degree
- With dust cover

UP-KJ5-01	UP-KJ6-25

UP-KJ5-01	**UTP Cat.5e keystone jack**

- 110 IDC type, 90 degree

UP-KJ6-025	**UTP Cat.6 keystone jack**

- 110 IDC type, 90 degree

UP-KJ5-06-C5E	UP-KJ6-06-C6
UP-KJ6A-06-C6A	

UP-KJ5-06-C5E	**UTP CAT5e keystone jack**
UP-KJ6-06-C6	**UTP CAT6 keystone jack**
UP-KJ6A-06-C6A	**UTP CAT6a keystone jack**

UP-KJ5-04	UP-KJ6-01

UP-KJ5-04	**UTP Cat.5e keystone jack**

- Dual IDC type, 90 degree

UP-KJ6-01	**UTP Cat.6 keystone jack**

- Dual IDC type, 90 degree

UP-KJ5-16	UP-KJ6-10

UP-KJ5-16	**UTP Cat.5e keystone jack**

- Toolless type, 90 Degree

UP-KJ6-10	**UTP Cat.6 keystone jack**

- Toolless type, 90 Degree

UP-KJ5-06	UP-KJ6-05

UP-KJ5-06	**UTP Cat.5e keystone jack**

- Dual IDC type, 180 degree
- With dust cover

UP-KJ6-05	**UTP Cat.6 keystone jack**

- Dual IDC type, 180 degree
- With dust cover

UP-KJ5-32	UP-KJ6-14

UP-KJ5-32	**STP Cat.5e keystone jack**

- Dual IDC type, 180 degree

UP-KJ6-14	**STP Cat.6 keystone jack**

- Dual IDC type, 180 degree

UP-KJ5-31	UP-KJ6-11

UP-KJ5-31	**STP Cat.5e keystone jack**

- Dual IDC type, 90 degree

UP-KJ5-11	**STP Cat.6 keystone jack**

- Dual IDC type, 90 degree

UP-KJ5-01	UP-KJ6-25

UP-KJ5-01	**UTP Cat.5e keystone jack**

- Dual IDC type, 90 degree
- With dust cover

UP-KJ5-25	**UTP Cat.6 keystone jack**

- Dual IDC type, 90 degree
- With dust cover

Keystone Jack

UP-KJ5-51	UP-KJ6-04	UP-KJ6A-04

UP-KJ5-51	UP-KJ6-04	UP-KJ6-04
UTP Cat.5e keystone jack	**UTP Cat.6 keystone jack**	**UTP Cat.6A keystone jack**
• Toolless type,180 Degree	• Toolless type,180 Degree	• Toolless type,180 Degree

UP-KJ6S-04	UP-KJ6AS-04

UP-KJ6S-04
STP Cat.6 keystone jack.
• Toolless type,180 Degree

UP-KJ6AS-04
STP Cat.6A keystone jack.
• Toolless type,180 Degree

UP-KJ5-50	UP-KJ6-50	UP-KJ6A-02

UP-KJ5-50	UP-KJ6-50	UP-KJ6A-02
UTP Cat.5e keystone jack	**UTP Cat.6 keystone jack**	**UTP Cat.6A keystone jack**
• Toolless type,180 degree	• Toolless type,180 degree	• Toolless type,180 Degree

UP-KJ5-43	UP-KJ6-16	UP-KJ6A-01

UP-KJ5-43	UP-KJ6-16	UP-KJ6A-01
STP Cat.5E keystone jack	**STP Cat.6 keystone jack**	**STP Cat.6A keystone jack**
• Toolless type	• Toolless type	• Toolless type
• Dual IDC type,180 degree	• Dual IDC type,180 degree	• Dual IDC type,180 degree

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Copper Installers Tool Kit
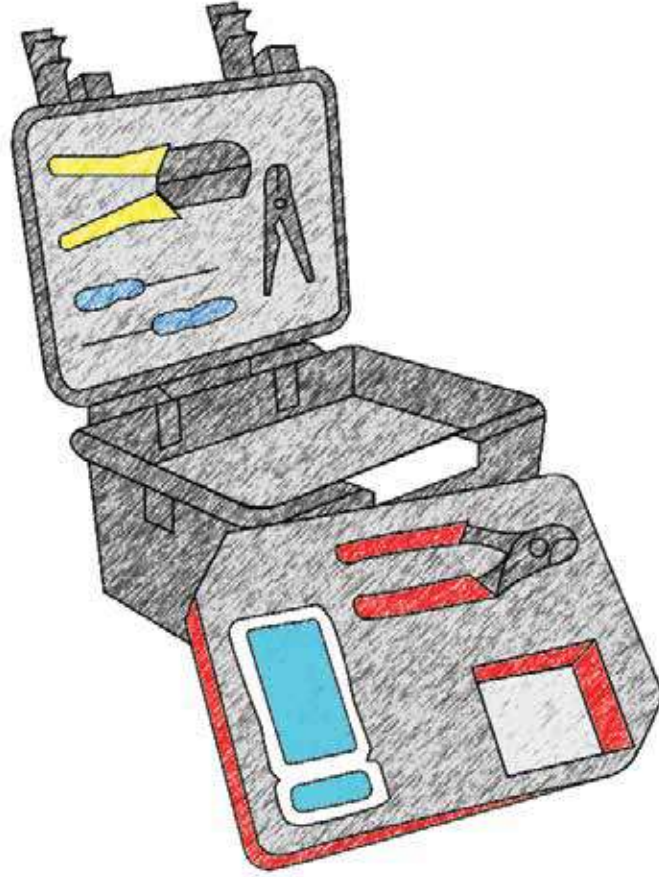
The full range of Copper Installers Tool Kit and technical specifications may seen on our website.

Crimping Tools

UP- T210N

Crimping Tool

- For crimping 8P8C/RJ45 modular plug
- For stripping round cable
- For cutting cable

UP- T568B

Crimping Tool

- Option 1: 8P+6P
- Option 2: 6P+4P
- For cutting the cable
- With ratchet

UP-T5684R

Crimping Tool

- For crimping 8P/6P/4P modular plug
- For cutting the cable
- With double color handle
- With ratchet

UP-T2180

Crimping Tool

- Option 1: 8P+6P
- Option 2: 6P+4P
- For cutting the cable
- With double color handle

UP-TH510B

Crimping Tool

- For crimping F, BNC, RCA, right angled and keystone module compression connectors
- With adjustment for crimping different length of connectors
- With double color handle • With ratchet

UP-T106

Crimping Tool

- For crimping cable of RG6,11,58,59,62,213
- For crimping ST,SC connector

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Stripping Tools

UP-T1660

Cable stripping tool

- For stripping round cable from 4.5-10mm
- With lock

UP-T501A

Cutter & Stripper

- For cutting or stripping UTP/STP or flat cable from 3.2 mm-9 mm

UP-T332

Coaxial Cable Stripper

- For stripping RG58/59/62/6/6QS/3C/4C/5C
- With 2 Blades

UP-T302A

Coaxial Cable Stripper

- For stripping RG59/62/6/4C/5C
- With 2 blades

UP-T312B

Coaxial Stripper

- For stripping RG58/59/62/3C/4C
- With 3 blades

UP-T2022

Punch Down Tool

- With 110 blade
- With adjustable knob for fitting different pressure

Punch Down Tools

UP-T3141N

Punch Down Tool

- With 110 blade
- With adjustable knob for fitting different pressure

UP-T2023

Punch Down Tool

- With adjustable impact pressure control
- Blades are interchangeable and reversible

UP-T2024

Punch Down Tool

- With 110 blade

UP-T2020B

Punch Down Tool

- For impact krone modules
- With lock

UP-T2020

Punch Down Tool

- For impact krone modules
- With lock

UP-T2021

Punch Down Tool

- For impact krone modules
- With hook

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PATCH PANELS

Cat3 25 Port Voice Panel Krone Type

DESCRIPTION

The 1U voice patch panel is for use with multi-pair voice cables. Features a smooth sliding mechanism that significantly improves the ease of installation. The Patch Panel is 19" rack mounted, available in 25 and 50 ports. All ports are numbered and is suitable for voice applications.

FEATURES

• Designed to fit all standard 19" racks and cabinets.
• 90 degree Krone Type.
• Contact Gold Plating 3-50U".

SPECIFICATION

• Insulation Resistance: 500 MΩ.
• Dielectric Withstanding Voltage: 1000 V AC.
• DC Current Rating: 1.5 Amps.
• DC Resistance: 0.1Ω.
• Contact Resistance: 20mΩ.

• Insertion Life: 750 Mating Cycles With FCC Compliant RJ-45 Plug.
• Contact Force: 100 Grams With FCC Compliant RJ-45 Plug.
• Plug Retention Force: 11 LBF MIN.
• Durability: 200 Termination Cycles.
• Contact Compatibility: Accommodates 26 to 28 AWG.
• Operating Temperature Range: -10°C To 60°C.
• Storage Temperature Range: -40°C To 68°C.
• Humidity: 10% ~ 90% RH.

PATCH PANELS

Cat3 25 Port Voice Panel Toolless Type

DESCRIPTION

The 1U voice patch panel is for use with multi-pair voice cables. Features a smooth sliding mechanism that significantly improves the ease of installation. The Voice Patch Panel is 19" rack mounted, available in 25 and 50 ports. All ports are numbered and is suitable for voice applications.

FEATURES

- Designed to fit all standard 19" racks and cabinets.
- 180 degree Toolless Type.
- UL Certified & RoHS Compliant.
- Contact Gold Plating 3-50U".

SPECIFICATION

- Insulation Resistance: 500 MΩ.
- Dielectric Withstanding Voltage: 1000 V AC.
- DC Current Rating: 1.5 Amps.
- DC Resistance: 0.1Ω.
- Contact Resistance: 20mΩ.

- Insertion Life: 750 Mating Cycles With RJ-45 Plug.
- Contact Force: 100 Grams With RJ-45 Plug.
- Plug Retention Force: 11 LBF MIN.
- Durability: 200 Termination Cycles.
- Contact Compatibility: Accommodates 26 to 28 AWG.
- Operating Temperature Range: -10°C To 60°C.
- Storage Temperature Range: -40°C To 68°C.
- Humidity: 10% ~ 90% RH.

PATCH PANELS

Cat3 25 Port Voice Panel Toolless Type

DESCRIPTION

The 1U voice patch panel is for use with multi-pair voice cables. Features a smooth sliding mechanism that significantly improves the ease of installation. The Voice Patch Panel is 19" rack mounted, available in 25 and 50 ports. All ports are numbered and is suitable for voice applications.

FEATURES

- Designed to fit all standard 19" racks and cabinets.
- 180 degree Toolless Type.
- UL Certified & RoHS Compliant.
- Contact Gold Plating 3-50U".

SPECIFICATION

- Insulation Resistance: 500 MΩ.
- Dielectric Withstanding Voltage: 1000 V AC.
- DC Current Rating: 1.5 Amps.
- DC Resistance: 0.1Ω.
- Contact Resistance: 20mΩ.

- Insertion Life: 750 Mating Cycles With RJ-45 Plug.
- Contact Force: 100 Grams With RJ-45 Plug.
- Plug Retention Force: 11 LBF MIN.
- Durability: 200 Termination Cycles.
- Contact Compatibility: Accommodates 26 to 28 AWG.
- Operating Temperature Range: -10℃ To 60℃.
- Storage Temperature Range: -40℃ To 68℃.
- Humidity: 10% ~ 90% RH.

PATCH PANELS

Cat5e UTP Patch Panel 1U 24Port 110 Punch Down Patch Panel With Cable Management Bar

DESCRIPTION

Designed for Fast Enthernet applications. Easy to management and conserves data center rack space. Compatiable with any brand. Each panel comes with 110-type termination, meeting and exceeding EIA/TIA TSB-40 Cat5e specifications. Color coded for both EIA/TIA 568A & 568B installations. 24 ports ensure a wide range of plug-n-play options. The clear numbering on both the front and back of each panel gives you a quick and easy way to identify cable runs. The high density 19inch panel design will save your valuable space on the 19 rack application.

FEATURES

- Cat5e
- Ports clearly numbered both on front and back
- Labels on front enable each port to be named
- Metal frame
- EIA/TIA 2/32 spacing
- 110 IDC (punch down) type termination
- TIA/EIA T568A and T568B wiring options

PATCH PANELS

CAT 5e 6 & 6A Patch Panel UTP FTP STP 1U 24PORT ANGLED V Shapped TOOLESS KEYSTONE JACK WITH CABLE MANAGEMENT BAR

DESCRIPTION

Unloaded/Empty patch panels are ready to snap in by Cat. 5e and cat6 and Cat 6A keystone jacks or couplers. Label and inlaid marks are available for the identification of cabling management. 1U, 24 port. Snap-in structure, easy to install and unload the module. V Shap snap in panel: provide angled for easy handling the cables

19 inch – 1U

FEATURES

- Available; UTP, FTP & STP Type
- Providing a high density connectivity.
- Angelled Patch Panels allow the cables to flow into the Vertical Cable Managements, Reducing the demand for horizontal cable management.
- Support Bar.
- 1 Unit Height.
- Clear label reduces installation time..

PATCH PANELS

CAT6 UTP Patch Panel 1U 4x6 Tooless Keystone Jack with Cable Manager

DESCRIPTION

Fit for 10Gigabit Applications, for the datacenter and for Server cabinets where the space is at priority. Removable plug and play modular cassettes suitable for both on and off site termination assembly Integral cable management to provide strain relief Compatible with standard 19" racks and cabinets Flexible solution - panel can be deployed in either a conventional installation or the module used as a consolidation point Supplied with panel mounting accessory kit.

APPLICATION

• Apply to install standard 19" equipment bracket, case and wall mounted tow rack;
• Various information modules provide more choice for cabling system operation;
• Universal sequence-T568A and T568B color sequence labeled on modules clearly;
• The design of other information modules goes beyond expected grade demand;
• Label and embedded icons are convenient to label and manage;
• Single-cord and multi-line pair impact tools are available.

STANDARDS

• Meet TIA/EIA-568-A and TIA/EIA-568-B Category 5E requirements;
• Meet TIA/EIA TSB-40;
• Meet ISO/IEC Generic Cabling Standard 11801;
• Meet CENELEC Generic Cabling Standard EN50173.

PATCH PANELS

CAT6 FTP Patch Panel 1U 4x6, 24port Tooless Keystone With Cable with Management Bar

DESCRIPTION

Engineered to meet he transmission performance requirements of IEC and TIA for Category 6 systems and also to provide the mechanical and electrical durability, by using high quality material, to produce a convenient patch panel which promise you a consistent high level of systems performance engineered for CLASS E/Category 6 applications.

APPLICATION

- Apply to install standard 19" equipment bracket, case and wall mounted tow rack.
- Various information modules provide more choice for cabling system operation.
- Universal sequence-T568A and T568B color sequence labeled on modules clearly.
- The design of other information modules goes beyond expected grade demand.
- Label and embedded icons are convenient to label and manage.
- Single-cord and multi-line pair impact tools are available.

STANDARDS

- TIA/EIA-568-A and TIA/EIA-568-B Category 5E requirements;
- TIA/EIA TSB-40;
- ISO/IEC Generic Cabling Standard 11801;
- CENELEC Generic Cabling Standard EN50173.

SPECIFICATION

Insulation Resistance: 500 MΩ.

Dielectric Withstanding Voltage: 1000 V AC.

DC Current Rating: 1.5 Amps.

DC Resistance: 0.1Ω.

Contact Resistance: 20mΩ.

Suitable Impact Tool: 110 Style Punch Down Tool.

Insertion Life: 750 Mating Cycles With FCC Compliant 8P Plug.

Contact Force: 100 Grams With FCC Compliant 8P Plug.

Plug Retention Force: 11 LBF MIN.

Durability: 200 Termination Cycles.

Contact Compatibility: Accommodates 22 to 24 Awg Solid.

Operating Temperature Range: -10 Ċ To 60 Ċ.

Storage Temperature Range: -40 Ċ To 68 Ċ.

Humidity: 10% ~ 90% RH.

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PATCH PANELS

UP-PP06-UTP-C5E-48P

UP-PP06-UTP-C6a-48P	UTP CAT5e patch panel,48 ports,2U
UP-PP06-UTP-C6a-48P	UTP CAT5e patch panel,48 ports,2U
KD-PP06-UTP-C5e-48P	UTP CAT5e patch panel

- 48 x unshielded RJ45 jacks
- 6 ports as an unit
- 2U, 19" krone & 110 dual IDC

UP-PP06-UTP-C5E-48P

UP-PP07-UTP-C5e-24P	UTP CAT5e patch panel,24 ports, with cable management,1U
UP-PP07-UTP-6-24P	UTP CAT6 patch panel,24 ports, with cable management,1U

- 24 x unshielded RJ45 jacks
- With cable management
- 6 ports as an unit
- 1U, 19" krone & 110 dual IDC

UP-PP30-STP-C5e-24P

UP-PP06-UTP-C6a-48P	STP CAT5e patch panel,24 ports,1U
UP-PP30-STP-C6-24P	STP CAT6 patch panel,24 ports,1U
UP-PP30-STP-C6A-24P	STP CAT6 patch panel,24 ports,1U

- 24 x shielded RJ45 jacks
- 8 ports as an unit
- 1U, 19" krone type IDC

UP-PP15-25P

Telephone patch panel,25 ports

- 25x unshielded 8P4C jacks
- 5 ports as an unit
- 1U, 19" krone type IDC

UP-PP16-50P

Telephone patch panel, 50 ports
- 50x unshielded 8P4C jacks
- 5 ports as an unit
- 1U, 19" krone type IDC

UP-PP01-UTP-C5e-12P

UP-PP01-UTP-C5e-12P	10 "UTP CAT5e patch panel,12 ports,1U
UP-PP01-UTP-C6-12P	10" UTP CAT6 patch panel,12 ports.1U
KD-PP01-UTP-C5e-12P	Mini UTP CAT5e patch panel,12 ports

- 12 x unshielded RJ45 jacks
- 1U, 10" 110 & krone type IDC

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PATCH PANELS

KD-PP29-STP-C6a-12P

UP-PP06-UTP-C6a-48P	Mini STP CAT6a patch panel, 12 ports
KD-PP29-STP-C6-12P	Mini STP CAT6 patch panel, 12 ports
KD-PP29-STP-C5e-12P	Mini STP CAT5e patch panel, 12 ports

- 12x fully shielded RJ45 jacks
- Metal housing
- Size: 254(W)x44.5(H)x130mm(D)

UP-PP28-STP-C5e-8P

UP-PP28-STP-C5e-8P	Mini STP CAT5e patch panel, 8 ports, 1U
UP-PP28-STP-C6-8P	Mini STP CAT6 patch panel, 8 ports, 1U

- 8x fully shielded RJ45 jacks
- Metal housing
- Size: 162(W)x44.5(H)x112mm(D)

UP-PP10-UTP-C5e-12P

UP-PP10-UTP-C5e-12P	10 "UTP CAT5e patch panel, 12 ports wall mounted type
UP-PP10-UTP-C6-12P	10 "UTP CAT6patch panel, 12 ports wall mounted type

- 12 x unshielded RJ45 jacks
- 110 & krone type IDC
- Install on wall mount rack
- 254(W)x81.2(H)x47.5mm(D)

UP-PP37-UTP-C5e-48P
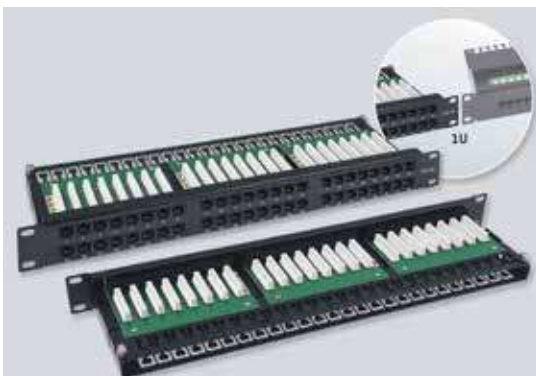
UP-PP10-UTP-C5e-12P	UTP CAT6 patch panel, 48 ports	KD-PP37-UTP-C5e-48P	UTP CAT5e patch panel, 48 ports
48 x unshielded RJ45 jacks	8 ports as an unit	48 x unshielded RJ45 jacks	8 ports as an unit
1U, 19" krone IDC		1U, 19" krone IDC	

UP-PP23-UTP-BK-12P

10" Blank patch panel, 12 ports

- For installing 12xUTP keystone jacks
- With cable management
- 254(W)x44.45(H)x83mm(D)

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PATCH PANELS

UP-PP23-UTP-BK-24P

| UP-PP23-UTP-BK-24P | 9" Blank patch panel for UTP keystone jacks |
| UP-PP23-STP-BK-24P | 9" Blank patch panel for STP keystone jacks |

- 24 ports for keystone jacks
- With cable management

UP-PP21-STP-BK-24P

19" Blank patch panel

- With 24 ports for UTP keystone jacks

UP-PP25-STP-BK-24P

19" Blank patch panel, 24 ports

- For installing 24xSTP keystone jacks
- With cable management

UP-PP25-STP-BK-24P

19" Blank patch panel, 24 ports

- For installing 24xUTP keystone jacks
- With cable management

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FACE PLATES

UP-FP01

Face plate
- Single port with shutter
- Size: 86X86mm

UP-FP02

Face plate
- Dual ports with shutters
- Size: 86X86mm

UP-FP05

Face plate
- Single port with shutter
- Size: 86X86mm

UP-FP06

Face plate
- Dual ports with shutters
- Size: 86X86mm

UP-FP07

Face plate
- Single port with shutter
- Size: 86X86mm

UP-FP08

Face plate
- Dual ports with shutters
- Size: 86X86mm

UP-FP10

Face plate
- Dual ports with shutters
- Size: 86X86mm

UP-FP11

Face plate
- Single port with shutter
- Size: 86X86mm

UP-FP46

Face plate
- Dual ports with shutters
- UK type
- Size: 86X86mm

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FACE PLATES

UP-FP13

Face plate
- Single angled port with shutter
- Size: 86X86mm

UP-FP14

Face plate
- Dual angled ports with shutters
- Size: 86X86mm

UP-FP60

Face plate
- Shielded for STP keystone jack, single port
- German type
- Size: 80X80mm

UP-FP61

Face plate
- Shielded for STP keystone jack, dual ports
- German type
- Size: 80X80mm

UP-FP62

Face plate
- Shielded for STP keystone jack, 3 ports
- German type
- Size: 80X80mm

UP-FP63

Face plate
- For simplex SC adaptor, single angled port
- Size: 80X80mm

UP-FP64

Face plate
- For duplex SC adaptor, single angled port
- Size: 80X80mm

UP-FP16

Face plate
- Single port
- Size: 70X115mm

UP-FP17

Face plate
- Dual ports
- Size: 70X115mm

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FACE PLATES

UP-FP18

Face plate

- 3 ports
- Size: 70X115mm

UP-FP40

Face plate

- 4 ports
- UK type
- Size: 86X146mm

UP-FP41

Face plate

- 4 ports
- UK type
- Size: 86X146mm

UP-FP39

Face plate

- Dual ports
- UK type
- Size: 86X86mm

UP-FP36

Face plate

- Single port
- UK type
- Size: 86X86mm

UP-FP37

Face plate

- Dual ports
- UK type
- Size: 86X86mm

UP-FP53

Face plate

- French type
- Suitable for 45X45mm or double 45X22.5mm face plate,
- Size: 80X80mm

UP-FP72

Mini face plate

- Single port
- Size: 33.2X67.9mm

UP-FP73

Mini face plate

- Dual ports
- Size: 33.2X67.9mm

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FACE PLATES

UP-FP74

Mini face plate

- 3 ports
- Size: 33.2X67.9mm

UP-FP75

Mini face plate

- 4 ports
- Size: 33.2X67.9mm

UP-FP49

Mini face plate

- Single port
- French type
- Size: 45X45mm

UP-FP48

Mini face plate

- Single port
- French type
- Size: 45X22.5mm

UP-FP76

Mini face plate

- Single port
- Size: 45X45mm
- With dust cover
- French type

UP-FP77

Mini face plate

- Single port
- Size: 45X22.5mm
- With dust cover
- French type

UP-FP78

Mini face plate

- Dual ports
- Size: 45X45mm
- French type
- With dust cover

UP-FP50

Mini face plate

- Dual ports
- French type
- Size: 45X45mm

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FACE PLATES

UP-FP51

Mini face plate

- Dual ports
- French type
- Size: 45X45mm
- With dust cover

UP-FP19

Face plate

- 4 ports
- Size: 70X115mm

UP-FP20

Face plate

- 6 ports
- Size: 70X115mm

UP-FP21

Face plate

- Single port
- Size: 70X115mm

UP-FP22

Face plate

- Dual ports
- Size: 70X115mm

UP-FP23

Face plate

- 3 ports
- Size: 70X115mm

UP-FP24

Face plate

- 4 ports
- Size: 70X115mm

UP-FP25

Face plate

- 6 ports
- Size: 70X115mm

UP-FP65

Face plate

- Dual ports for RCA/F adaptor
- Size: 70X115mm

FACE PLATES

UP-FP66	UP-FP67	UP-FP69	UP-FP68

Face plate
- 3 ports for RCA/F adaptor
- Size: 70X115mm

Face plate
- 4 ports for RCA/F adaptor
- Size: 70X115mm

Face plate
- 8 ports for RCA/F adaptor
- Size: 70X115mm

Face plate
- 6 ports for RCA/F adaptor
- Size: 70X115mm

SURFACE MOUNT BOX

UP-WP6038-C5e / UP-WP6038-C6e
UP-WP6038-C6A

UP-WP6038-C5e
- UTP CAT5e Surface mount box, Single Port

UP-WP6038-C6
- UTP CAT6 Surface mout box, Single Port

UP-WP6038-C6a
- UTP CAT6a Surface mout box, Single Port

UP-WP6039-C5e / UP-WP6039-C6
UP-WP6039-C6a

UP-WP6039-C5e
- UTP CAT5e Surface mout box, Dual Ports

UP-WP6039-C6
- UTP CAT6 Surface mout box, Dual Ports

UP-WP6039-C6a
- UTP CAT6a Surface mout box, Dual Ports

UP-WP6040-C5e / UP-WP6040-C6
UP-WP6040-C6a

UP-WP6040-C5e
- STP CAT5e Surface mout box, Single Port

UP-WP6040-C6
- STP CAT6 Surface mout box, Single Port

UP-WP6040-C6a
- STP CAT6a Surface mout box, Single Port

UP-WP6041-C5e / UP-WP6041-C6
UP-WP6041-C6a

UP-WP6041-C5e
- STP CAT5e Surface mout box, Dual Ports

UP-WP6041-C6
- STP CAT6 Surface mout box, Dual Ports

UP-WP6041-C6a
- STP CAT6a Surface mout box, Dual Ports

UP-WP6034-C5e / UP-WP6034-C6

KD-WP6034-C5e

UTP Cat5e Surface box
- Single RJ45 port
- With PCB

KD-WP6034-C6

UTP Cat6 Surface box
- Single RJ45 port
- With PCB

SURFACE MOUNT BOX

UP-WP6036-C5e / UP-WP6036-C6

KD-WP6036-C5e
STP Cat5e Surface box
• Single RJ45 port
• With PCB

KD-WP6036-C6
STP Cat6 Surface box
• Single RJ45 port
• With PCB

UP-WP6035-C5e / UP-WP6035-C6

KD-WP6035-C5e
UTP Cat5e Surface box
• Dual RJ45 ports
• With PCB

KD-WP6035-C6
UTP Cat6 Surface box
• Dual RJ45 ports
• With PCB

UP-WP6037-C5e / UP-WP6037-C6

KD-WP6037-C5e
STP Cat5e Surface box
• Dual RJ45 ports
• With PCB

KD-WP6037-C6
STP Cat6 Surface box
• Dual RJ45 ports
• With PCB

KD-WP01-A / KD-WP01-B

KD-WP01-A
• Surface box,single port,with keystone jack

KD-WP01-B
• Surface box,single port,without keystone jack

KD-WP02-A / KD-WP02-B

KD-WP02-A
• Surface box,dual ports,with keystone jack

KD-WP02-B
• Surface box,dual ports,without keystone jack

KD-WP04-A / KD-WP04-B

KD-WP04-A
• Surface box,dual ports,with keystone jack

KD-WP04-B
• Surface box,dual ports,without keystone jack

KD-WP05-A / KD-WP05-B

KD-WP05-A
• Surface box,single port,with keystone jack

KD-WP05-B
• Surface box,single port,without keystone jack

KD-WP06-A / KD-WP06-B

KD-WP06-A
• Surface box,dual ports,with keystone jack

KD-WP06-B
• Surface box,dual ports,without keystone jack

KD-WP07-A / KD-WP07-B

KD-WP07-A
• Surface box,4 ports,with keystone jack

KD-WP07-B
• Surface box,4 ports,without keystone jack

PATCH CORDS

Cat 5e U/UTP Patch Cord LSZH

Jacket
Insulation
Cross
Conductor
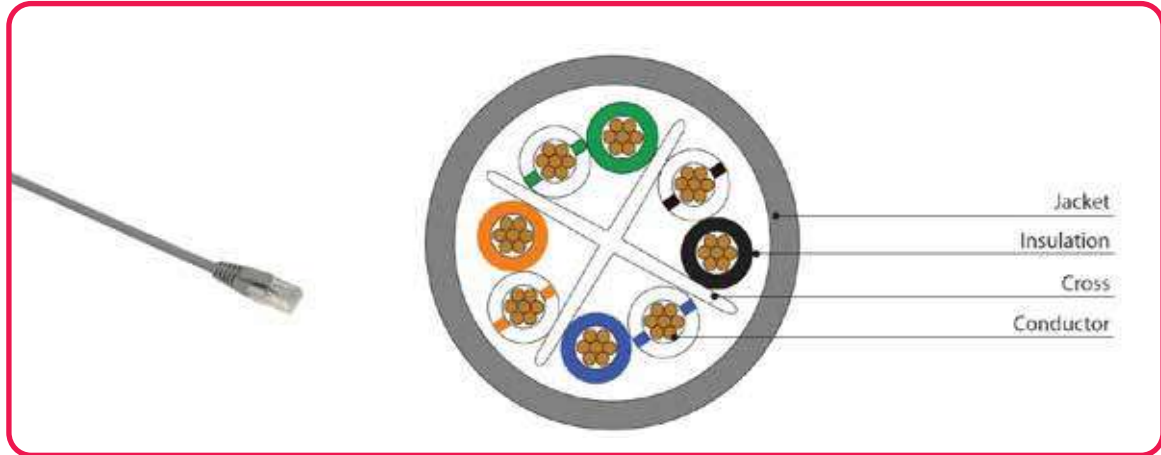
DESCRIPTION

Category 5e unscreened (Cat5 U/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS D/Category 5 systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

• Complying 100MHz
• LS0H
• Snagless colored moulded boot
• 3-50u"gold plated contact pins
• 6 standard colours

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APPLICATION

- ATM 155
- 100BASE-Tx
- IEC 61935-2
- ISO/IEC 11801
- 1000BASE-T
- 1G FCBASE-T
- Class D/category 5e standards compliant

SPECIFICATION

Structure	Referrence	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.95mm
	Material	HDPE
	External Outer Diameter	5.4 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	LSZH
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 ℃
	Operation Temperature	-20 to 60 ℃

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Cat 5e F/UTP Patch Cord LSZH

Jacket
Insulation
Cross
Conductor

DESCRIPTION

Category 5e screened (Cat5e F/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS D/Category 5 systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 100MHz
- LS0H
- Snagless colored moulded boot
- 3-50u"gold plated contact pins
- 6 standard colours

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- ATM 155
- 100BASE-Tx
- IEC 61935-2
- ISO/IEC 11801
- 1000BASE-T
- 1G FCBASE-T
- Class D/category 5e standards compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.86mm
	Material	HDPE
	External Outer Diameter	5.3 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	LSOH
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 °C
	Operation Temperature	-20 to 60 °C

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Cat 5e F/UTP Patch Cord PVC

Jacket
AL Foil
Drain Wire
Polyester Tape
Insulation
Conductor

DESCRIPTION

Category 5e screened (Cat5e F/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS D/Category 5 systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 100MHz
- PVC
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

APPLICATION

- ATM 155
- 100BASE-Tx
- IEC 61935-2
- ISO/IEC 11801
- 1000BASE-T
- 1G FCBASE-T
- Class D/category 5e standards compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.86mm
	Material	HDPE
	External Outer Diameter	5.3 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	PVC
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 °C
	Operation Temperature	-20 to 60 °C

Cat 5e U/UTP Patch Cord PVC

Jacket
Insulation
Cross
Conductor

DESCRIPTION

Category 5e unscreened (Cat6 U/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS D/Category 5 systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 100MHz
- LS0H
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

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APPLICATION

- ATM 155
- 100BASE-Tx
- IEC 61935-2
- ISO/IEC 11801
- 1000BASE-T
- 1G FCBASE-T
- Class D/category 5e standards compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.95mm
	Material	HDPE
	External Outer Diameter	5.4 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	LSZH
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 ℃
	Operation Temperature	-20 to 60 ℃

Cat 6 F/UTP Patch Cord LSZH

Labels on diagram:
- Jacket
- AL Foil
- Drain Wire
- Polyester Tape
- Insulation
- Cross
- Conductor

DESCRIPTION

Category 6 unscreened (Cat6 F/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS E/Category 6 systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 250MHz
- Low Smoke Zero Halogen
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

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APPLICATION

- IEC 61935-2
- ISO/IEC 11801
- ATM 1200
- 1000BASE-T (
- 1G FCBASE-T
- REACH compliant
- Class E/category 6 standards compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.86mm
	Material	HDPE
	External Outer Diameter	5.9 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	LSZH
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 ℃
	Operation Temperature	-20 to 60 ℃

Cat 6 F/UTP Patch Cord PVC

Jacket
AL Foil
Drain Wire
Polyester Tape
Insulation
Cross
Conductor

DESCRIPTION

Category 6 unscreened (Cat6 F/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS E/Category 6 systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 250MHz
- PVC
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

- IEC 61935-2
- ISO/IEC 11801
- ATM 1200
- 1000BASE-T (
- 1G FCBASE-T
- REACH compliant
- Class E/category 6 standards compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.86mm
	Material	HDPE
	External Outer Diameter	5.8 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	PVC
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 ℃
	Operation Temperature	-20 to 60 ℃

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Cat 6 U/UTP Patch Cord LSZH

Jacket
Insulation
Cross
Conductor

DESCRIPTION

Category 6 unscreened (Cat6 U/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS E/Category 6 systems performance requirements. The patch cords are well-engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 250MHz
- Low Smoke Zero Halogen
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

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APPLICATION

- IEC 61935-2
- ISO/IEC 11801 (2nd Edition): 2010
- ATM 1200
- 1000BASE-T (Gigabit Ethernet)
- 1G FCBASE-T
- REACH / SVHC compliant regulation (EC) No. 1907/2006
- Class E/category 6 standards compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.98mm
	Material	HDPE
	External Outer Diameter	5.8 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	LSZH
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 ℃
	Operation Temperature	-20 to 60 ℃

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Cat 6 U/UTP Patch Cord LSZH

Jacket
Insulation
Cross
Conductor

DESCRIPTION

Category 6 unscreened (Cat6 U/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS E/Category 6 systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 250MHz
- PVC
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

APPLICATION

- IEC 61935-2
- ISO/IEC 11801 (2nd Edition): 2010
- ATM 1200
- 1000BASE-T (Gigabit Ethernet)
- 1G FCBASE-T
- REACH / SVHC compliant regulation (EC) No. 1907/2006
- Class E/category 6 standards compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.86mm
	Material	HDPE
	External Outer Diameter	5.8 ± 0.2mm
Jacket	Thickness mm	0.51mm
	Material	PVC
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 °C
	Operation Temperature	-20 to 60 °C

Cat 6A S/FTP Patch Cord LSZH

Jacket
AF Foil
Braid
Conductor
Insulation
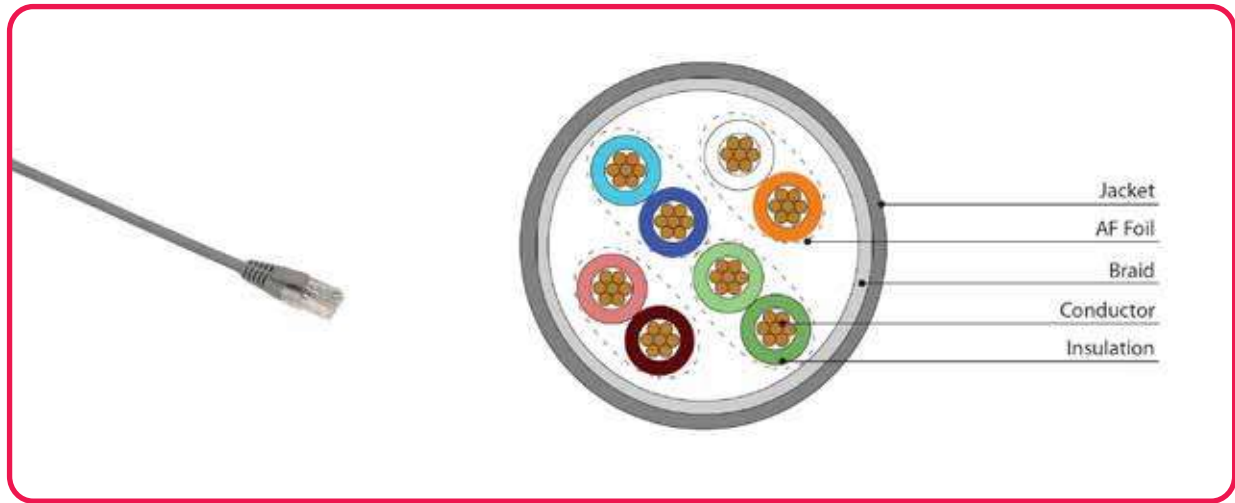
DESCRIPTION

Category 6 unscreened (Cat 6A S/FTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS E/Category 6A systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 500MHz
- LS0H
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

APPLICATION

- IEC 61935-2
- ISO/IEC 11801
- ATM 1200
- 1G FCBASE-T
- 10G BASE-T (10G Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- Class EA/category 6A
- REACH compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	1.01mm ± 0.05
	Material	Foam PE
	External Outer Diameter	6.0 ± 0.2mm
Jacket	Thickness mm	0.55mm
	Material	LSOH
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 °C
	Operation Temperature	-20 to 60 °C

Cat 6A U/UTP Patch Cord LSZH

Jacket
Insulation
Cross
Conductor
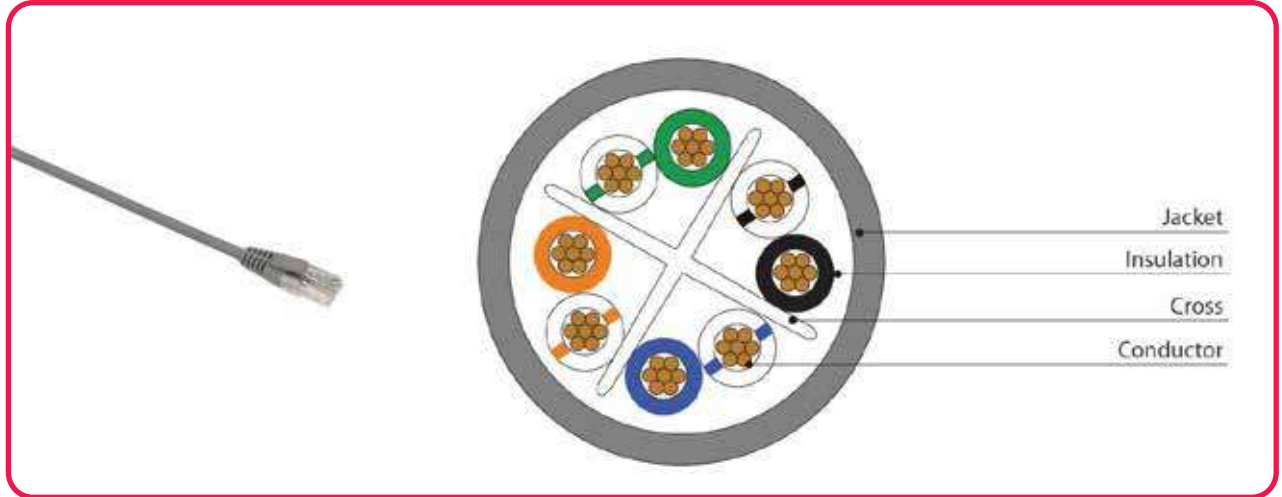
DESCRIPTION

Category 6 unscreened (Cat 6A U/UTP) patch cord are engineered to meet and exceed the IEC and TIA for CLASS E/Category 6A systems performance requirements. The patch cords are engineered to be robust and reliable, using high quality of raw-materials and quality oriented production processes, to provide a patch cord solution which provides a high level of performance. The colored moulded snagless boot latching allows the patch cords to be deployed within even the most densely populated network installations.

FEATURES

- Complying 500MHz
- LS0H
- Snagless colored moulded boot
- 3 to 50u"gold plated contact pins
- 6 standard colours

APPLICATION

- IEC 61935-2
- ISO/IEC 11801
- ATM 1200
- 1G FCBASE-T
- 10G BASE-T (10G Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- Class EA/category 6A
- REACH compliant

SPECIFICATION

Structure	Refference	Value
Conductors	AWG	24
	Size	7x0,20
Insulation	Material	Bare Copper
	Diameter	0.95mm ± 0.05
	Material	Polyolefin
	External Outer Diameter	5.8 ± 0.2mm
Jacket	Thickness mm	0.6mm
	Material	LSOH
Pulling Tension	Max.50N	
Bending Radius	Min. 8 x Cable Diameter	
Temperature Range	Storage Temperature	-20 to 70 °C
	Operation Temperature	-20 to 60 °C

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PATCH CORDS (CCA)

UP-PAUT6XXX-YY

Cat6,U/UTP Patch cable

- Made by U/UTP Cat6 cable
- 2xUnshielded RJ45 plug
- TIA/EIA 568B coded

Order information

- PAUT6XXX-YY, XXX=Meters, YY=Color

UP-PAUT7XXX-YY

Cat6,F/UTP Patch cable

- Made by F/UTP Cat6 cable
- 2xShielded RJ45 plug
- TIA/EIA 568B coded

Order information

- PAFT7XXX-YY, XXX=Meters, YY=Color

UP-PAUT8XXX-YY

Cat6,SF/UTP Patch cable

- Made by SF/UTP Cat6 cable
- 2xShielded RJ45 plug
- TIA/EIA 568B coded

Order information

- PASFT8XXX-YY, XXX=Meters, YY=Color

UP-PAUT9XXX-C-6A-YY

Cat6a,SF/UTP Patch cable

- Made by SF/UTP Cat6a cable
- 2xShielded RJ45 plug
- TIA/EIA 568B coded

Order information

- PASFT9XXX-C6a-YY, XXX=Meters, YY=Color
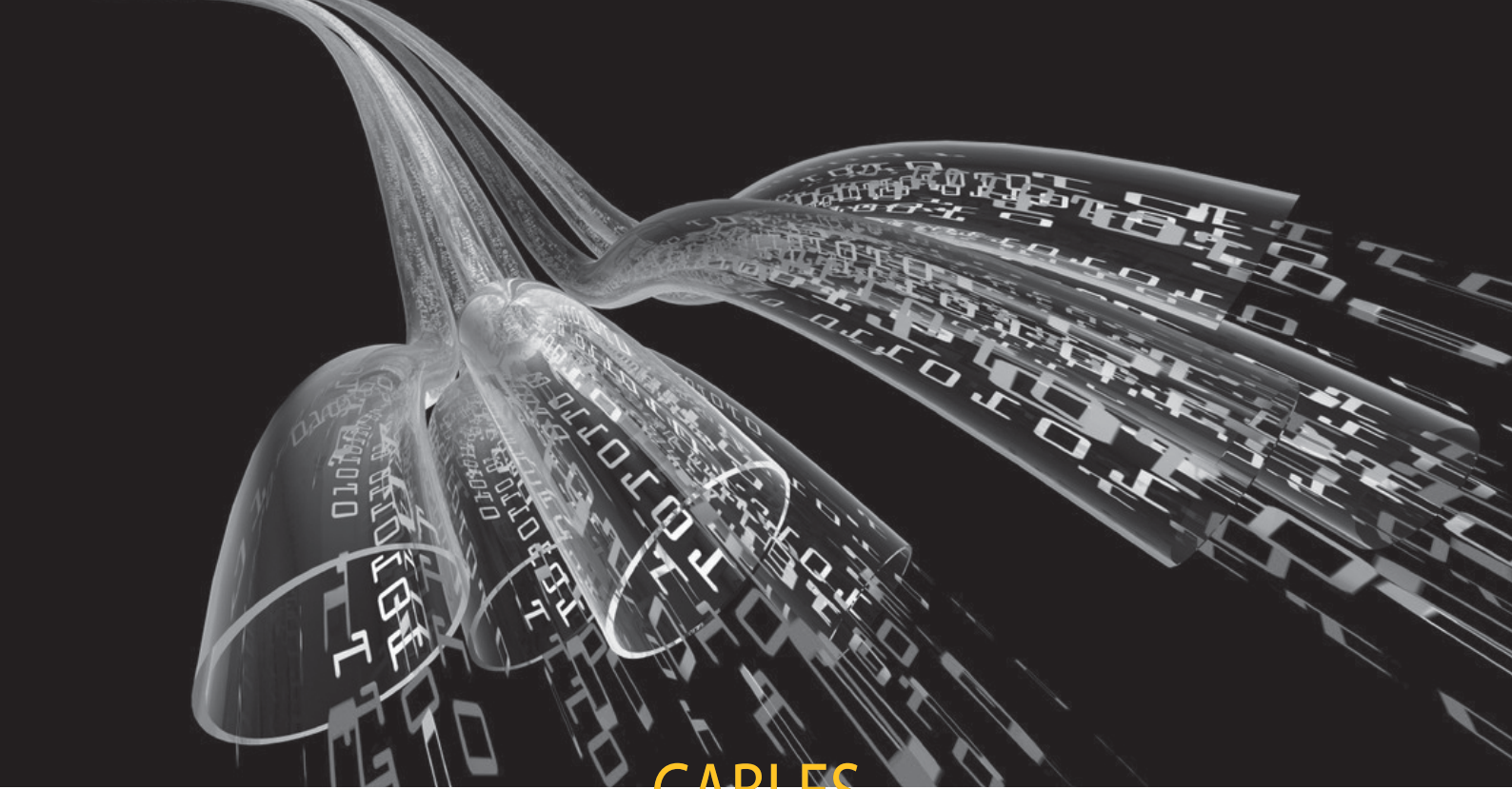
CABLES

Upcom optical cable assemblies provide the vital connectivity links and patching for your network. Our in-house designed and specified assemblies provide 1 to 288 fibres featuring IEC compliant components and a choice of performance levels to suit your network needs.

UPCOM

CAT 5E U/UTP CABLE PVC

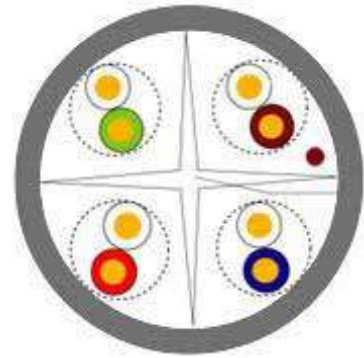## Category 5e Unshielded Twisted Pair U/UTP Installation cable

DESCRIPTION

Category 5 cables are capable of operating up to 100MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 5 U/UTP cables are applicable for basic voice and data installations up to 100 MHz.

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568B, EN-50173

APPLICATION

Cable for data transmission in structured cabling networks (LAN), horizontal and secondary facilities.

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.50±0.01 mm
Insulation	HDPE	0.90±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	

ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.51	Max.91.5	Max.4%	5.6	69	100±15	5.0±0.2

Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
4	23.0	4.1	56.3	552.0	53.3	52.0	49.0
8	24.5	5.8	51.8	547.0	48.8	45.9	42.9
10	25.0	6.5	50.3	545.0	47.3	44.0	41.0
16	25.0	8.2	47.2	543.0	44.2	39.9	36.9
20	25.0	9.3	45.8	542.0	42.8	38.0	35.0
25	24.3	10.4	44.3	541.0	41.3	36.0	33.0
31.25	23.6	11.7	42.9	540.0	39.9	34.1	31.1
62.5	21.5	17.0	38.4	539.0	35.4	28.1	25.1
100	20.1	22.0	35.3	538.0	32.3	24.0	21.0

CAT 5E U/UTP CABLE LSZH

Category 5e Unshielded Twisted Pair U/UTP Installation cable.

DESCRIPTION

U/UTP Category 5 cables are capable of operating up to 100MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 5 U/UTP cables are applicable for basic voice and data installations up to 100 MHz.

Manufactured according to ISO / IEC 11801, EIA / TIA-568-C.2, EN-50173.

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.50±0.01 mm
Insulation	HDPE	0.90±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Ripcord	Yes	
Sheath	LSZH	
Color	Red (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	
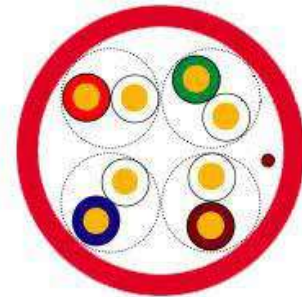
ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.50	Max.95	Max.4%	5.6	69	100±15	5.0±0.3

Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
4	23.0	4.1	56.3	552.0	53.3	52.0	49.0
8	24.5	5.8	51.8	547.0	48.8	45.9	42.9
10	25.0	6.5	50.3	545.0	47.3	44.0	41.0
16	25.0	8.2	47.2	543.0	44.2	39.9	36.9
20	25.0	9.3	45.8	542.0	42.8	38.0	35.0
25	24.3	10.4	44.3	541.0	41.3	36.0	33.0
31.25	23.6	11.7	42.9	540.0	39.9	34.1	31.1
62.5	21.5	17.0	38.4	539.0	35.4	28.1	25.1
100	20.1	22.0	35.3	538.0	32.3	24.0	21.0

CAT 5E F/UTP CABLE PVC

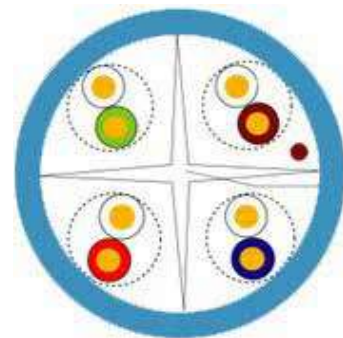## Category 5e shielded Twisted Pair F/UTP Installation cable.

DESCRIPTION

F/UTP Category 5 cables are capable of operating up to 100MHz. Produced according to ISO/IEC 11801 requirements, the F/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 5 F/UTP cables are applicable for basic voice and data installations up to 100 MHz.

Manufactured according to ISO / IEC 11801, EIA / TIA-568-C.2, EN-50173.

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.50±0.01 mm
Insulation	HDPE	0.90±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Shield	PET FOIL + AL Foil	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	
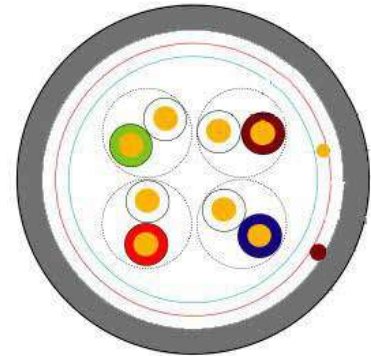
ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)		Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.51	Max.91.5	Max.2%	5.6		67	100±15	5.0±0.2
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.8	34.8
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.9	24.9
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8

CAT6 F/UTP CABLE LSZH

Category 6 shielded Twisted Pair F/UTP Installation cable.

DESCRIPTION

F/UTP Category 6 cables are capable of operating up to 250MHz. Produced according to ISO/IEC 11801 requirements, the F/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 6 F/UTP cables are applicable for basic voice and data installations up to 250 MHz.

Manufactured according to ISO / IEC 11801, EIA / TIA-568-C.2, EN-50173

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	1.09±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Screen Material	Polyester Tape / Aluminum Foil / TC drain	
Filler	Yes	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	
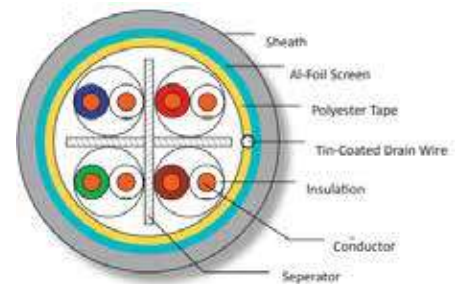
ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.51	Max.91.5	Max.2%	5.6	67	100±15	6.20±0.2

Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.0	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

CAT6 U/UTP CABLE PVC

Category 6 Unshielded Twisted Pair U/UTP Installation cable.

DESCRIPTION

U/UTP Category 6 cables are capable of operating up to 250MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 6 U/UTP cables are applicable for basic voice and data installations up to 250 MHz.

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568B, EN 50173.

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	0.97±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Filler	Yes	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	

ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.56	Max.75	Max.5%	56	69	100±15	6.10±0.3

Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.0	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.9

CAT6 U/UTP CABLE LSZH

Category 6 Unshielded Twisted Pair U/UTP Installation cable.

DESCRIPTION

U/UTP Category 6 cables are capable of operating up to 250MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 6 U/UTP cables are applicable for basic voice and data installations up to 250 MHz.

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568B, EN 50173.

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	0.97±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Filler	Yes	
Ripcord	Yes	
Sheath	LSZH	
Color	Blue (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	

ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.56	Max.75	Max.5%	56	69	100±15	6.10±0.3

Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.0	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.9

CAT6A U/UTP CABLE LSZH

Category 6A Unshielded Twisted Pair U/UTP Installation cable.

DESCRIPTION

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568-C.2, EN 50173.

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	1.03±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Filler	Yes	
Ripcord	Yes	
Sheath	LSZH	
Color	Blue (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	

ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.56	Max.75	Max.5%	56	69	100±15	7.50±0.3

Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.1	74.3	570.00	72.3	67.8	64.8
4	23.0	3.8	65.3	552.0	63.3	55.8	52.8
8	24.5	5.3	60.8	546.7	58.8	49.7	46.7
10	25.0	5.9	59.3	545.4	57.3	47.8	44.8
16	25.0	7.5	56.2	543.00	54.2	43.7	40.7
20	25.0	8.4	54.8	542.1	52.8	41.8	38.8
25	24.3	9.4	53.3	541.2	41.3	39.8	36.8
31.25	23.6	10.5	51.9	540.4	49.9	37.9	34.9
62.5	21.5	15.0	47.4	538.6	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	42.3	27.8	24.8
200	18.0	27.6	39.8	536.5	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	36.3	19.8	16.8
300	16.8	34.3	37.1	536.1	35.1	18.3	15.3
500	15.2	45.3	33.8	535.6	31.9	13.8	10.8

CAT7 S/FTP CABLE LSZH

Category 7 shielded Twisted Pair S/FTP Installation cable.

DESCRIPTION

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568-C.2, EN 50173.

TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.58±0.01 mm
Insulation	HDPE	1.35±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Inner screening	Aluminum foil	
Outher screening	Tinned copper braid ≥40%	
Ripcord	Yes	
Sheath	LSOH	
Color	Blue (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15 ℃—+70 ℃	
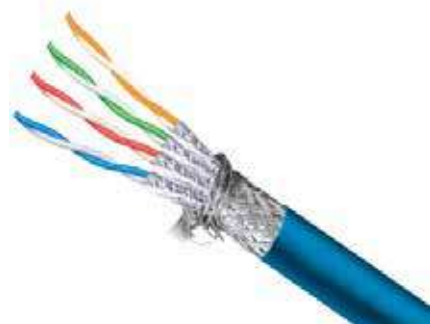
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ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impendance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.58	Max.71	Max.147	40	74	100±15	7.50±0.3

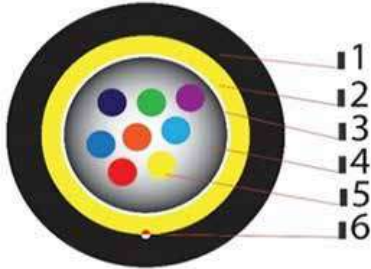| Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.0	78.0	570.0	75.0	78.0	75.0
4	23.0	3.74	78.0	552.0	75.0	78.0	75.0
8	24.5	5.24	78.0	546.7	75.0	75.9	72.9
10	25.0	5.86	78.0	545.4	75.0	74.0	71.0
16	25.0	7.41	78.0	543.00	75.0	69.9	66.9
20	25.0	8.29	78.0	542.0	75.0	68.0	65.0
25	24.3	9.29	78.0	541.2	75.0	66.0	63.0
31.25	23.6	10.41	78.0	540.4	75.0	64.1	61.1
62.5	21.5	14.88	75.5	538.6	72.5	58.1	55.1
100	20.1	19.02	72.4	537.6	69.4	54.0	51.0
150	18.9	23.56	69.8	536.9	66.8	50.2	47.2
200	18.0	27.47	67.9	536.5	64.9	48.0	45.0
250	17.3	30.97	66.4	536.3	63.4	46.0	43.0
300	17.3	34.19	65.2	536.1	62.2	44.5	41.5
600	17.3	50.10	60.7	535.5	57.7	38.4	35.4

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U-DQ(BN)H

CPR! CERTIFICATION IS AVAILABLE

INDOOR LOOSE TUBE 2 TO 12 FIBERS

1. Outer Sheath (HFFR)
2. Glass Yarn (Aramid as Option)
3. Central Loose Tube
4. Filling Material (Thixotropic Jelly)
5. Optical Fibers
6. Rip Cords

DESCRIPTION

U-DQ(BN)H type Loose Tube fiber optic cables are engineered to meet and to exceed the (IEC 60794) requirements and used for General purpose Indoor / Outdoor fiber optic cabling, Networking & Lan Cabling FTTH / FTTx applications, trank cabling voice or data transmission requirements.

STANDARDS

IEC 60754-1, IEC 61034-1&2, IEC 60332-1, IEC 60794-1&2

FEATURES

• Non-metallic Armoring
• Low Smoke Zero Halogen
• Loose Tube
• Jelly Filled Tube construction
• 4-12 Core
• Anti Rodent
• UV Resistant
• EU CPR certification Class C & Class D available

SPECIFICATION

Fiber Count	2	4	6	8	12
Loose Tube Diameter	2.8 mm				
Loose Tube Cladding	PBT				
Strength Member	Water Blocking Glass Yarn				
Outer Jacket	LSZH				
Weight (kg/km)	46				
Outer Diameter(mm)	6,0				
Tensile Strength (lt/st)N	800/1200				
IEC–60794-1-E1					
Optical Characteristic	MM/OM1	MM/OM2	MM/OM3	MM/OM4	SM G 652D1	SM G657A1/A2
Bandwith (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (db/km)	3.2/1.2	3.0/1.0	2.8/1.8	2.7/0.7	0.35/.022	0.35/0.22
Crush Strength (N)	1500 (IEC 60794-1-2 E3)				
Working Temperature	-30 ºC to +70 ºC (IEC 60794-1-2 F1)				
Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11)				

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

A-DQ(BN)2Y

PE JACKET-NON-METALLIC ARMORED LOOSE TUBE 2 TO 12 FIBERS
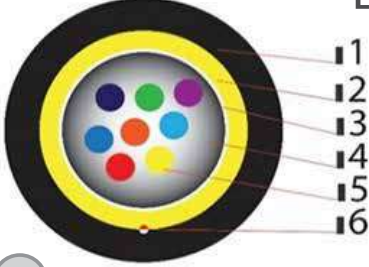
1. Outer Sheath (PE)
2. Glass Yarn (Aramide as Option)
3. Central Loose Tube
4. Filling Material (Thixotrpic Jelly)
5. Optical Fibers
6. Rip Cords

APPLICATION

• Inter Building and Intrabuilding Voice or Data Communication Networks

• General Purpose

• Installed in Ducts & Conduits

• Secondary Distribution

• LAN

• FTTB Cabling,

• Campus Cabling

• Indoor and Outdoor (Universal Use)

• Telecommunication Data Trunk Systems

• Interconnection of Distribution Boxes, Distribution Frames and the Panels at Customer Side

FEATURES

• Compact

• Waterproof

• Non-Metallic Armored

• Jelly Filled Tube

• UV- Resistant

• All Dielectric

• Light Weght

• Enforcement with Non-Metallic Strenght Members

• Rodent Resistant

SPECIFICATION

Fiber Count	2	4	6	8	12
Loose Tube Diameter	2.8 mm				
Loose Tube Cladding	PBT				
Strength Member	Water Blocking Glass Yarn				
Outer Jacket	LSZH				
Weight (kg/km)	42				
Outer Diameter(mm)	6,2				
Tensile Strength (lt/st)N	800/1200N				
IEC–60794-1-E1					
Optical Characteristic	MM/OM1	MM/OM2	MM/OM3	MM/OM4	SM G 652D1	SM G657A1/A2
Bandwith (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (db/km)	3.2/1.2	3.0/1.0	2.8/1.8	2.7/0.7	0.35/.022	0.35/0.22
Crush Strength (N)	1500 (IEC 60794-1-2 E3)				
Working Temperature	-30 ºC to +70 ºC (IEC 60794-1-2 F1)				
Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11)				

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

A-DQ(BN)(SR)2Y

OUTDOOR-PE JACKETED-LOOSE TUBE CABLE
2 TO 12 FIBERS
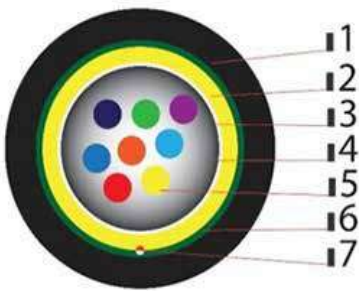
1. Outer Sheath PE (LSZH as option)
2. Glass Yarn (Aramid as option)
3. Central Loose Tube
4. Filling Material (Thixotropic Jelly)
5. Optical Fibers
6. Corrugated Steel Tape Armor
7. Rip Cord

DESCRIPTION

A-DQ(BN)(SR)2Y/H type Loose Tube fiber optic cables are engineered to meet and to exceed the (IEC 60794-1&2) requirements and used for Heavy Duty Condition Indoor / Outdoor fiber optic cabling, Direct Burial requirements, Networking & Lan Cabling, FTTx applications, trank cabling voice or data transmission requirements.

STANDARDS

IEC 60754-1, IEC 61034-1&2, IEC 60794-1&2

SPECIFICATION

Fiber Count	2	4	6	8	12
Loose Tube Diameter^	2.8 mm				
Loose Tube Cladding	PBT				
Strength Member	Water Blocking Glass Yarn (Aramid yarn Optional)				
Outer Jacket	HDPE (LSZH Optional)				
Armor	Corrugated Steel Tape				
Weight (kg/km)	62				
Outer Diameter(mm)	7,5				
Tensile Strength (lt/st)N IEC – 60794-1-E1	1200/1600				
Optical Characteristic	MM/OM1	MM/OM2	MM/OM3	MM/OM4	SM G 652D1	SM G657A1/A2
Bandwith (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (db/km)	3.2/1.2	3.0/1.0	2.8/1.8	2.7/0.7	0.35/.022	0.35/0.22
Crush Strength (N)	2000 (IEC 60794-1-2 E3)				
Working Temperature	-30 ºC to +70 ºC (IEC 60794-1-2 F1)				
Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11)				

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

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I-V(ZN)H

INDOOR DROP CABLE 1 TO 4 FIBERS
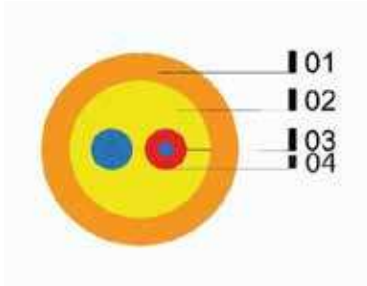
1. 250 micron Fiber
2. 900micron Tight Buffer
3. Aramid Yarn
4. LSZH Sheath

DESCRIPTION

I-V(ZN)H type tight buffered fiber optic cables are engineered to meet and to exceed the (IEC 60794) requirements and used for Drop Cabling for FTTH / FTTx applications, direct connection to terminal equipments, riser cabling, voic or data transmission requirements.

STANDARDS

DIN VDE 0888 Part 6; IEC 61034; IEC 60332-2; IEC 60754-2; IEC 60794-1&2

FEATURES

- Easy to Strip
- Direct Termination
- Enforced with Non-Metallic Strength Members
- Complete Dry Design
- All Dielectic

- Halogen Free Fire Retardant / Low Smoke Zero
- Halogen
- Flexible
- Small Diameter
- Light Weight

SPECIFICATION

Fiber Count	1	2	4
Strength Member	Aramid Yarns		
Tight Jacket	HFFR		
Outer Jacket	HFFR		
Tight Buffer Jacket⌀ (μ)	900±50		
Optical Characteristic	9/125 G.652-D	9/125 G.657A1	9/125 G.657A.2
Bandwith (nm)	1310/1550	1310/1550	1310/1550
Attenuation (max dB/km)	0.35/0.25	0.35/0.22	0.35/0.22
Weight (Kg/km)	4.4	9.5	13.5
Outer ⌀(mm)	2.40	3.00	3.5
Tensile Load Perm / Inst (N)	150/300	200/400	300/600
Crush Strength (N/10cm)	200 (IEC 60794-1-2 E3)		
Temperature Range	-10 °C to +60 °C (IEC 60794-1-2 F1)		
Min. Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11) (10x Outer for G657)		

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

I-V(ZN)H MINI

MINI BREAKOUT CABLE WITH ARAMID YARN STRENGTH MEMBER
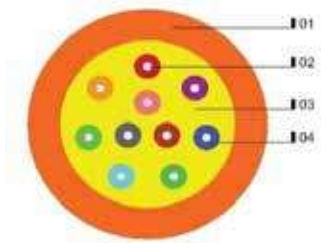
1. Outer Sheath
2. Optical Fiber
3. Aramid Yarn
4. 900 micron Tight Buffer

* Rip Cord on both side will be applied

CPR! CERTIFICATION IS AVAILABLE

DESCRIPTION

I-V(ZN)H Mini fiber optic cables are engineered to meet and to exceed the (IEC 60794) requirements and used for General purpose Indoor fiber optic cabling, Networking & Lan Cabling, FTTH / FTTx applications, Interconnection of Distribution Boxes, Distribution Frames and Customer Equipment and between the floors.

STANDARDS

DIN VDE 0888 Part 6; IEC 61034; IEC 60332-2; IEC 60754-2; IEC 60794-1&2

FEATURES

• Easy to Strip
• Direct Termination
• Enforced with Non-Metallic Strength Members
• Complete Dry Design

• All Dielectic
• Halogen Free Fire Retardant Low Smoke Zero Halogen
• Flexible
• Low Installation Cost

• Non Metallic Design
• All Dielectic
• Halogen Free Fire Retardant Low Smoke Zero Halogen
• Flexible
• Low Installation Cost
• Non Metallic Design

SPECIFICATION

Fiber Count	2	4	6	8	12	16	24
Strength Member	Aramid Yarns						
Tight Buffer⌀ (µ)	900±50						
Tight Buffer Jacket	LSZH						
Identification	Color Coded up to 12 and Black Ring Coded 12-24Fibers						
Outer Jacket	LSZH						
Weight (kg/Km)	26	31	42	48	54	67	85
Outer ⌀(mm)	4.5	5.5	6.0	6.8	7.2	8.0	8.6
Tensile Load Perm / Inst (N)	400/600	400/600	600/1000	600/1000	800/1200	800/1200	1000/1600
Optical Characteristic	62,5/125 OM1		50/125 OM2	50/125 OM3	50/125 OM4	9/125 G.652-D	9/125 G.657A
Bandwith (nm)	850/1300		850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (max dB/km)	3.2/1.2		3.0/1.0	2.8/0.8	2.7/0.7	0.35/0.22	0.35/0.22
Weight (Kg/km)	4.4			9.5		13,5	
Crush Strength (N/10cm)	1000 (IEC 60794-1-2 E3)						
Temperature Range	-20 ºC to +60 ºC (IEC 60794-1-2 F1)						
Min. Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11)						

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

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I-V(BN)H MINI

MINI BREAKOUT CABLE WITH GLASS YARN STRENGTH MEMBER
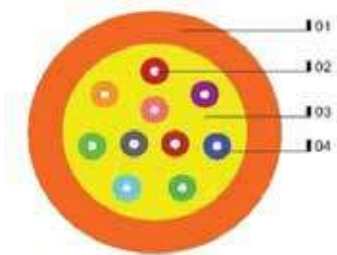
1. Outer Sheath
2. Optical Fiber
3. Glass Yarn
4. 900 micron Tight Buffer

* Rip Cord on both side will be applied

CPR! CERTIFICATION IS AVAILABLE

DESCRIPTION

I-V(BN)H mini fiber optic cables are engineered to meet and to exceed the (IEC 60794) requirements and used for General purpose Indoor fiber optic cabling, Networking & Lan Cabling, FTTH / FTTx applications, Interconnection of Distribution Boxes, Distribution Frames and Customer Equipment and between the floors.

STANDARDS

DIN VDE 0888 Part 6; IEC 61034; IEC 60332-2; IEC 60754-2; IEC 60794-1&2

FEATURES

- Easy to Strip
- Direct Termination
- Enforced with Non-Metallic Strength Members
- Complete Dry Design
- All Dielectic
- Halogen Free Fire Retardant Low Smoke Zero Halogen
- Flexible
- Low Installation Cost
- Non Metallic Design

SPECIFICATION

Fiber Count	2	4	6	8	12	16	24
Strength Member	Glass Yarns						
Tight Buffer⌀ (µ)	900±50						
Tight Buffer Jacket	LSZH						
Identification	Color Coded up to 12 and Black Ring Coded 12-24Fibers						
Outer Jacket	LSZH						
Weight (kg/Km)	26	31	42	48	54	67	85
Outer ⌀(mm)	4.5	5.5	6.0	6.8	7.2	8.0	8.6
Tensile Load Perm / Inst (N)	400/600	400/600	600/1000	600/1000	800/1200	800/1200	1000/1600
Optical Characteristic	62,5/125 OM1		50/125 OM2	50/125 OM3	50/125 OM4	9/125 G.652-D	9/125 G.657A
Bandwith (nm)	850/1300		850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (max dB/km)	3.2/1.2		3.0/1.0	2.8/0.8	2.7/0.7	0.35/0.22	0.35/0.22
Weight (Kg/km)	4.4			9.5		13,5	
Crush Strength (N/10cm)	1000 (IEC 60794-1-2 E3)						
Temperature Range	-20 ºC to +60 ºC (IEC 60794-1-2 F1)						
Min. Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11)						

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

I-V(ZN)HH 2x1

FLAT DUBLEX
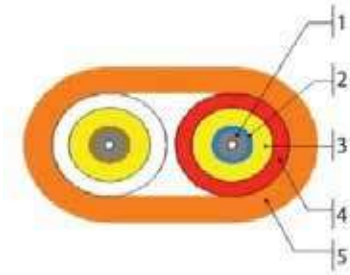
1. Optical Fiber

2. 900 mic Tight Buffer

3. Aramid Yarn

4. Sub-Unit (Simplex)

5. Outer Sheath

DESCRIPTION

I-V(ZN)HH 2x1 - BREAKOUT CABLE fiber optic cables are engineered to meet and to exceed the (IEC 60794) require-ments and used for patch & break-out connections, LAN applications, FAN OUT and FTTH cabling applications.

STANDARDS

DIN VDE 0888 Part 6; IEC 61034; IEC 60332-1&2; IEC 60754-2; IEC 60794-1&2

FEATURES

- Easy to Strip
- Direct Termination
- Enforced with Non-Metallic Strength Members
- Complete Dry Design

- All Dielectic
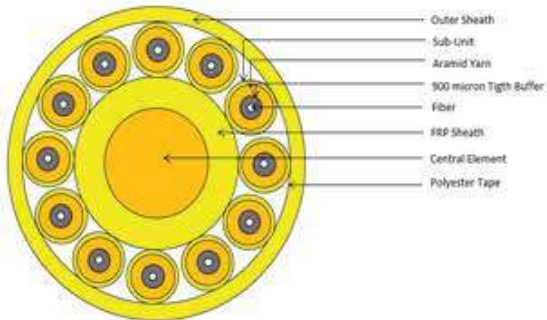- Halogen Free Fire Retardant Low Smoke Zero Halogen
- Flexible

SPECIFICATION

Fiber Count	2					
Strength Member	Aramid Yarns					
Subcable Jacket	LSZH					
Outer Jacket	LSZH					
Subcables Ø (mm)	2.0			2.8		
Weight (kg/Km)	24			32		
Outer Ø (mm)	3.0x6.0			3.8x5.6		
Tensile Load Perm / Inst (N)	300/500			400/700		
Optical Characteristic	62,5/125 OM1	50/125 OM2	50/125 OM3	50/125 OM4	9/125 G.652-D	9/125 G.657A
Bandwith (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (max dB/km)	3.2/1.2	3.0/1.0	2.8/0.8	2.7/0.7	0.35/0.22	0.35/0.22
Crush Strength (N/10cm)	600 (IEC 60794-1-2 E3)					
Temperature Range	-20 ºC to +60 ºC (IEC 60794-1-2 F1)					
Min. Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11) (10x Outer for G657)					

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

I-V(ZN)HH

Breakout - Tight Buffer - 2.0mm - Simplex
SZ Stranded - HFFR Jacket

Outer Sheath
Sub-Unit
Aramid Yarn
900 micron Tigth Buffer
Fiber
FRP Sheath
Central Element
Polyester Tape

DESCRIPTION

I-V(ZN)HH - Breakout Cable fiber optic cables are engineered to meet and to exceed the (IEC 60794) requirements, to be installed into ducts and conduits and used for FTTx cabling, Vertical Riser and General Horizontal Applications, Inter Building and Intrabuilding Voice or Data Communication Networks and Breakout Design Permitting Routing to Different Locations and Direct Termination of the Fibers in the Field. The individual 2.0 mm-breakout elements consist of 900μm tight buffers surrounded by aramid yarn.

STANDARDS

DIN VDE 0888 Part 6; IEC 61034; IEC 60332-1&2; IEC 60754-2; IEC 60794-1&2

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I-V(ZN)HH

FEATURES

- Easy to Strip
- Direct Termination
- Reduced Diameter
- Complete Dry Design
- All Dielectic
- Halogen Free Fire Retardant
- Flexible
- Rodent Resistant and Termit Protection can be applied.
- Enforcement with Non-Metallic Strenght Members
- Non Metallic Design
- Low Cast

SPECIFICATION

Fiber Count	2	4	6	8	12	16	24
Strength members	Aramid Yarn						
Subcables Ø (mm)	2.0 mm						
Subcables jacket	LSZH						
Identification	Number Coded (Color Code Option is available upon request.						
Outer jacket	LSZH						
Weight (Kg/Km)	45	52	70	90	115	125	140
Outer Ø (mm)	6.6	6.8	9.0	10.5	11.5	13.0	14.0
Tensile Load Perm / Inst (N)	600/1000	800/1350	1200/2050	1600/2700	2400/3500	3200/3500	3500/4500
Optical Characretistic	62,5/125 OM1		50/125 OM2	50/125 OM3	50/125 OM4	9/125 G.652-D	9/125 G.657A
Bandwith (nm)	850/1300		850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (max dB/km)	3.2/1.2		3.0/1.0	2.8/0.8	2.7/0.7	0.35/0.22	0.35/0.22
Crush (N)							
Temperature Range	2000 (IEC 60794-1-2 E3)						
Min. Bending Radius	-20 ºC to +60 ºC (IEC 60794-1-2 F1)						
	20 x Outer Ø (IEC 60794-1-2 E11) (10 Outer Sheath for G657)						

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

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J-VH PIGTAIL

Breakout - Tight Buffer - 2.0mm - Simplex
SZ Stranded - HFFR Jacket

01

02

03
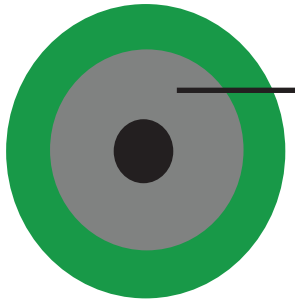
1. 900 micron HFFR Sheat

2. 250 mic. Optical Fiber Coating and Color

3. 9/50/62,5 micron Optical Fiber Core

DESCRIPTION

J-H type (pigtail) fiber optic cables are used for pigtail & Jumper connections, indoor interconnect and patch applications.

STANDARDS

DIN VDE 0888 Part 2; IEC 61034; IEC 60332-1; IEC 60754-2

FEATURES

• Easy to Strip

• Easy and Direct Termination

• Low Installation Cost

• Dry Design

• All Dielectic

• LSZH Jacket

SPECIFICATION

Fibers	1
Outer Jacket	LSZH
Colour	Orange (OM1) / Blue (OM2) / Aqua (OM3) / Violet (OM4) / Yellow (SM)
Weight (kg/km)	0,9
Outer Ø (mm)	900 ±50
Tensile Load Perm/Inst(N)	10
Max. Length (m)	8000
Temperature Range	-10 ºC to +60 ºC (IEC 60794-1-2 F1)
Min. Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11)

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

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J-V(ZN)H 1x1

Simplex Zipcord Patch Cable
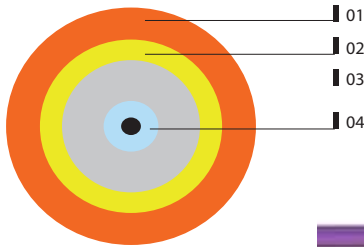
1. HFFR Sheath
2. Aramid Yarn
3. 900 micron Tight Buffer
4. Optical Fiber

DESCRIPTION

J-V(ZN)H 1x1 Simplex Zipcord Patch fiber optic cables are used for pigtail and jumper connections, patching applications, direct connection to terminal equipments, Drop & FTTx cabling, ODF cabling.

STANDARDS

DIN VDE 0888 Part 4; IEC 61034; IEC 60332-1&2; IEC 60754-2; IEC 60794-1&2

FEATURES

- Easy to Strip
- Direct Termination
- Small Diameter
- Complete Dry Design
- All Dielectic
- Halogen Free Fire Retardant / Low Smoke Zero Halogen
- Flexible
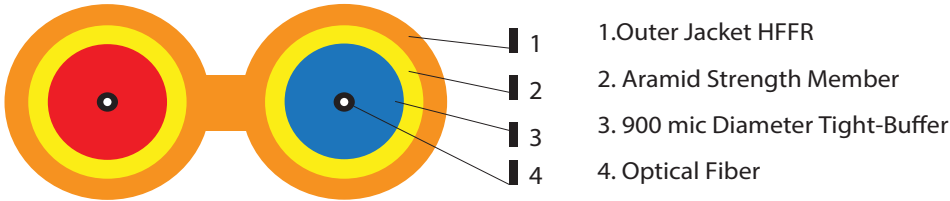- Enforced with Non-Metallic Strength Members

SPECIFICATION

Fiber Count	1					
Strength members	Aramid Yarns					
Tight jacket	LSZH					
Outer jacket	LSZH					
Tight Buffer Jacket Ø (µ)	650±50		900±50			
Optical Characretistic	62,5/125 OM1	50/125 OM2	50/125 OM3	50/125 OM4	9/125 G.652-D	9/125 G.657A
Bandwith (nm)	850/1300	850/1300	850/1300	2.7/0.7	1310/1550	1310/1550
Attenuation (max dB/km)	3.2/1.2	3.0/1.0	2.8/0.8	2.8/0.8	0.35/0.22	0.35/0.22
Weight (Kg/Km)	2,8	3,3	4,2	5,8	8,4	9,5
Outer Ø (mm)	1,6	1,8	2	2,4	2,8	3
Tensile Load Perm/Inst (N)	60/110	60/110	75/150	75/150	100/220	100/220
Crush (N/10cm)	100 (IEC 60794-1-2 E3)					
Temperature Range	-10 oC to +60 oC (IEC 60794-1-2 F1)					
Min. Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11)					

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

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J-V(ZN)H 2x1

Dublex Zipcord Patch Cable

1. Outer Jacket HFFR
2. Aramid Strength Member
3. 900 mic Diameter Tight-Buffer
4. Optical Fiber

DESCRIPTION

J-V(ZN)H 2x1 Dublex Ziprcord Patch fiber optic cables are used for pigtail and jumper connections, patching applications, direct connection to terminal equipments, Drop & FTTx cabling, ODF cabling.

STANDARDS

DIN VDE 0888 Part 4; IEC 61034; IEC 60332-1&2; IEC 60754-2; IEC 60794-1&2

FEATURES

• Easy to Strip

• Direct Termination

• Small Diameter

• Complete Dry Design

• All Dielectic

• Halogen Free Fire Retardant / Low Smoke Zero Halogen

• Flexible

• Enforced with Non-Metallic Strength Members

J-V(ZN)H 2x1

Dublex Zipcord Patch Cable

SPECIFICATION

Fiber Count	2					
Strength Member	Aramid Yarn					
Subcable Jacket	LSZH					
Outer Jacket	LSZH					
Tight Buffer Jacket Ø (μ)	650±50			900±50		
Weight (kg/Km)	5.5	6.5	8.4	11.5	16.0	19.0
Outer Ø (mm)	1.6x3.2	1.8x3.6	2.0x4.1	2.4x4.9	2.8x5.9	3.0x6.2
Tensile Load Perm / Inst (N)	100/200	100/200	150/300	150/300	200/400	200/400
Optical Characteristic	62,5/125 OM1	50/125 OM2	50/125 OM3	50/125 OM4	9/125 G.652-D	9/125 G.657A
Bandwith (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550	1310/1550
Attenuation (max dB/km)	3.2/1.2	3.0/1.0	2.8/0.8	2.7/0.7	0.35/0.22	0.35/0.22
Crush Strength (N/10cm)	200 (IEC 60794-1-2 E3)					
Temperature Range	-20 ºC to +60 ºC (IEC 60794-1-2 F1)					
Min. Bending Radius	20 x Outer Ø (IEC 60794-1-2 E11) - 10 x Outer for G657					

Standard Cable Jacket Color, Cable Marking, Packing Lenght info is available at our website.

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I-N(ZM)H w FRP (Drop)

INDOOR DROP CABLE WITH
FRP STRENGTH MEMBER

1. HFFR Outer Sheath

2. Optical Fiber

3. FRP Strength Member

APPLICATION

• FFTA Applications

• Aerial (Lashed)

• Direct Connection to Terminal Equıpments

• LAN

• Drop Cabling

• WAN

• VInterbuilding and Intrabuilding Voice or Data Communication Networks

• Indoor and Outdoor Interconnect and Patchcord Applications

I-N(ZM)H w FRP (Drop)

INDOOR DROP CABLE WITH
FRP STRENGTH MEMBER

FEATURES

• Easy to Strip

• Easy and Direct Termination

• Enforced with Non-Metallic Strength Members

• Complete Dry Design

• Small Diameter

• Low Cost

• Perfect Solution for Subscriber Cabling

• Halogen Free Fire Retardant / Low Smoke Zero Halogen

EN 50173-1, IEC 60754-2, IEC 60794-1&2, IEC 60793-1&2, IEC 60332-1 & 2

SPECIFICATION

Fiber	1	2	4
Strength members	0.5mm FRP Strength Member / Steel Strength Member is optional		
Outer jacket	LSZH		
Jacket Ø (mm)	3.2x2.0		
Optical Characcretistic	9/125 G.652-D	9/125 G.657A1	9/125 G.657A
Bandwith (nm)	1310/1550	1310/1550	1310/1550
Attenuation (max dB/km)	0.35/0.25	0.34/0.24	0.34/0.22
Weight (Kg/Km)	9	9	9
Tensile Load Perm / Inst (N)	100/200	100/200	100/200
Crush (N/10cm)	200 (IEC 60794-1-2 E3)		
Temperature Range	-10 ºC to +60 ºC (IEC 60794-1-2 F1)		
Min. Bending Radius	15 x Outer Ø	10 x Outer Ø	

A-N(ZM)H-SH

Aerial Indoor Drop Cable with Messenger Wire (FRP - Non-Metallic)

1. 1.00mm FRP Messenger Wire

2. Strength Member 0.5mm

3. Optical Fiber

4. LSZH Outer Sheath

FEATURES

• Easy to Strip

• Easy and Direct Termination

• Enforced with Non-Metallic Strength Members

• Complete Dry Design

• Small Diameter

• Low Cost

• Perfect Solution for Subscriber Cabling

• Halogen Free Fire Retardant / Low Smoke Zero Halogen

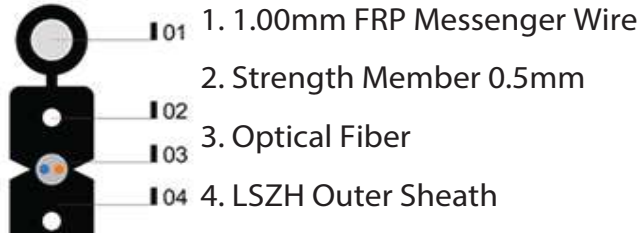EN 50173-1, IEC 60754-2, IEC 60794-1&2, IEC 60793-1&2, IEC 60332-1 & 2

SPECIFICATION

Fiber	1	2	4
Strength members	0.5mm FRP Strength Member / Steel Strength Member is optional		
Outer jacket	LSZH		
Jacket Ø (mm)	5.2x2.0		
Optical Charactretistic	9/125 G.652-D	9/125 G.657A1	9/125 G.657A2
Bandwith (nm)	1310/1550	1310/1550	1310/1550
Attenuation (max dB/km)	0.35/0.25	0.34/0.22	0.35/0.22
Weight (Kg/Km)	21	21	21
Tensile Load Perm / Inst (N)	400/600	400/600	400/600
Crush (N/10cm)	200 (IEC 60794-1-2 E3)		
Temperature Range	-10 ºC to +60 ºC (IEC 60794-1-2 F1)		
Min. Bending Radius	15 x Outer Ø	10 x Outer Ø	

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OPTICAL FIBER SPECIFICATIONS

G.657 A1

ITU-T recommendation G.657.A Bending intensitive Single Mode;
IEC 60793-2-50 type B1.3

Geometric/mechanical properties	Units	Specified Values
Cladding diameter	(µm)	125 ± 0.7
Cladding non-circularity	(%)	≤ 0.7
Coating diameter	(µm)	242 ± 7
Coating-clading concentricity error	(%)	≤ 12.0
Cladding non-circularity	(%)	≤ 5.0
Core non-circularity	(µm)	≤ 5.0
Core/cladding concentricity error	(µm)	≤ 0.5
Curl (radius)	m	≥ 4

Macro-Bend induced attenuation	dB	≤ 0.25	10 turns around a madrel of 15 mm Diameter; 1550nm
	dB	≤ 0.75	1 turn around a madrel of 10 mm Diameter; 1550nm
	dB	≤ 1.5	1 turn around a madrel of 10mm Diameter; 1625nm
Proof test	N	≥ 0.7	100 kpsi; 1% strain equivelant
Coating Strip Force	N	≥ 1 ≤3	typical average force
	N	≥ 1.2 ≤8.9 ≤ 0.05	Peak strip force
Temperature Cycling	dB/km		1310nm, 1550nm,1625nm; -60°C to +85°C

Optical Characteristics	Units	Specified Values		
Wavelength	(nm)	1310	1550	1625
Attenuation max.	(dB/km)	≤0.35	≤0.21	≤0.23
Mode Field Diameter	(µm)	9.0±0.4	10.1±0.5	
Effective Group Index of Refraction		1.467	1.468	1.468

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OPTICAL FIBER SPECIFICATIONS

G.657.A2

ITU-T recommendation G.657.A2 BendBright Single Mode; IEC 60793-2-50 type B1.3

Geometric/mechanical properties	Units	Specified Values
Cladding diameter	(µm)	125 ± 0.7
Cladding non-circularity	(%)	≤ 0.7
Coating diameter	(µm)	242 ± 7
Coating-clading concentricity error	(µm)	≤ 12.0
Cladding non-circularity	(%)	≤ 5.0
Core non-circularity	(%)	≤ 5.0
Core/cladding concentricity error	(µm)	≤ 0.5
Curl (radius)	m	≥ 4

Macro-Bend induced attenuation	dB	≤ 0.03	10 turns around a madrel of 15 mm Diameter; 1550nm
	dB	≤ 0.1	1 turn around a madrel of 10 mm Diameter; 1550nm
	dB	≤ 0.5	1 turn around a madrel of 10mm Diameter; 1550nm
Proof test	N	≥ 0.7	100 kpsi; 1% strain equivelant
Coating Strip Force	N	≥ 1 ≤3	typical average force
	N	≥ 1.2 ≤ 8.9	Peak strip force
Temperature Cycling	dB/km	≤ 0.05	1310nm, 1550nm,1625nm; -60^{0}C to +85^{0}C

Optical Characteristics	Units	Specified Values		
Wavelength	(nm)	1310	1550	1625
Attenuation max.	(dB/km)	≤0.35	≤0.20	≤0.21
Mode Field Diameter	(µm)	8.8±0.4	9.8±0.5	
Effective Group Index of Refraction		1.467	1.467	1.468

OPTICAL FIBER SPECIFICATIONS

G.652-D

ITU-T recommendation G.657.A2 BendBright Single Mode; IEC 60793-2-50 type B1.3

Geometric/mechanical properties	Units	Specified Values
Cladding diameter	(μm)	125 ± 0.7
Cladding non-circularity	(%)	≤ 0.7
Coating diameter	(μm)	242 ± 5
Coating-clading concentricity error	(μm)	≤ 12.0
Cladding non-circularity	(%)	≤ 6.0
Core non-circularity	(%)	≤ 1.0
Core/cladding concentricity error	(μm)	≤ 0.5
Curl (radius)	m	≥ 4

Macro-Bend induced attenuation	dB	≤ 0.05	1 turns around a madrel of 32 mm Diameter; 1550nm
	dB	≤ 0.05	100 turn around a madrel of 50 mm Diameter; 1310&1550nm
	dB	≤ 0.05	100 turn around a madrel of 60mm Diameter; 1625nm
Proof test	N	≥ 9.0	100 kpsi; 1% strain equivelant
Coating Strip Force	N	1.7	typical average force
	N	≥ 1.3 ≤	Peak strip force
Temperature Cycling	dB/km	8.9	1310nm, 1550nm,1625nm; -60^0C to $+85^0$C

Optical Characteristics	Units	Specified Values		
Wavelength	(nm)	1310	1550	1625
Attenuation max.	(dB/km)	≤0.33	≤0.19	≤0.23
Dispersion coefficient	(μm)	≤-3.5	≤17	≤0.22
Mode Field Diameter		8.6~9.6	9.9~10.9	
Effective Group Index of Refraction		1.466	1.467	

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OPTICAL FIBER SPECIFICATIONS

OM1

G62.5/125 OM1 Multimode Fiber (IEC 60793-2-10 type A1b)

Geometric/mechanical properties	Units	Specified Values
Core diameter	(µm)	62,5 ± 2.5
Cladding diameter	(µm)	125 ± 1.0
Coating diameter	(µm)	242 ± 5
Core non-circularity	(%)	≤ 5
Cladding non-circularity	(%)	≤ 0.7
Core/cladding concentricity error	(µm)	≤ 1.0
Coating-clading concentricity error	(µm)	≤ 10
Proof test	Gpa	>0.7 Off line
Coating Strip Force	N	1 to 3 Average strip force, unaged and aged
Coating Strip Force	N	1.3 to 8.9 Peak strip force, unaged and aged
Temperature Cycling	dB/km	850nm, 1300nm; -60°C to ≤0.1 +85°C

Transmission properties	Units	OM1	
Wavelength	(nm)	850	1300
Attenuation max.	(dB/km)	≤2.3	≤0.6
Fiber Capacity 10GBASE-SR	mt	≤300	
Bandwidth min. OFL	(MHz · km)	≥1500	≥500
Group Index of Refraction (Typical)		1.482	1.472
Numerical Aparture		0.200±0.015	

OM3

G50.5/125 OM3 Multimode Fiber (IEC 60793-2-10 type A1a)

Geometric/mechanical properties	Units	Specified Values
Core diameter	(µm)	50 ± 2
Cladding diameter	(µm)	125 ± 1.0
Coating diameter	(µm)	242 ± 5
Core non-circularity	(%)	≤ 5
Cladding non-circularity	(%)	≤ 0.7
Core/cladding concentricity error	(µm)	≤ 1.0
Coating-clading concentricity error	(µm)	≤ 10
Proof test	Gpa	>0.7 Off line
Coating Strip Force	N	1 to 3 Average strip force, unaged and aged
Coating Strip Force	N	1.3 to 8.9 Peak strip force, unaged and aged
Temperature Cycling	dB/km	850nm, 1300nm; -60⁰C to ≤0.1 +85⁰C

Transmission properties	Units	OM3	
Wavelength	(nm)	850	1300
Attenuation max.	(dB/km)	≤2.3	≤0.6
Fiber Capacity 10GBASE-SR	mt	≤300	
Bandwidth min. OFL	(MHz · km)	≥1500	≥500
Group Index of Refraction (Typical)		1.482	1.472
Numerical Aparture		0.200±0.015	

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RACK CABINET

Upcom optical cable assemblies provide the vital connectivity links and patching for your network. Our in-house designed and specified assemblies provide 1 to 288 fibres featuring IEC compliant components and a choice of performance levels to suit your network needs.

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W-LINE
WALL MOUNTED
RACK CABINET

DESCRIPTION

The W-Line wall mounting 19" rack cabinets are suitable in the offices for limited U height is required. W-Line 19'' cabinets are propected by IP20. W-Line have two 19" adjustable mounting angles in depth. Additional mounting rails can be ordered as accessory. Front door with glass door and perforated metal door option is available. Having removable and lockable 2 side panels and metal rear panelç Load carrying capacity is 50 kg in case used as a wall mounting cabinet and load carrying capacity can go up to 200 kg in case used as a free standing cabinet. Colour options are RAL 9005 Black, and RAL 7035 Light Grey, with fine wrinkle soft touch paint.

Vented top cover provides passive air circulation via convection. There is a double vented fan hole suitable for optimum cooling of fan. Two 19" adjustable angled mounting rails could be moved forward and backward. Door is having a glass door. It is lockable and removable. Side Panels are removable and lockable. Enabling you to easy access to equipment and gives better look and improved security Back Panel; could be removable and be mountable on the wall easily. There are two brushed cable entry at W-Line cabinet 1 on Bottom 1 on Top.

Heights : 4U, 7U, 9U, 12U, 16U, 20U
Depth : 450mm & 600mm
Width : 550mm

CONSTRUCTION

Door : Front door with glass door and perforated metal door option is available.

Material : A1 quality steel HDG, body thickness is 2 mm, mounting rails are 1,5 mm thick.

Cable Entry : On Top and bottom cable brushed entry.

Mounting Rail : 2 pcs of 19" adjustable mounting rails. Compatible with standard international 19 inch standard.

Side Panels : Openning, lockable.

Painting : Impact-resistant, Electrostatic powder painting. Color options are RAL 9005 Black & RAL 7035 White.

Rear Panel : Can be removable and be mountable on the wall easily. W-Line Wall mounting cabinets can easily be transformed to double sectioned cabinet in a second with the help of its well-engineered construction. You shall order the rear section for that option.

IP 20 rating : IP20 according to EN61587-1, IEC60529. Protected against solid objects larger than 12,5 mm in diameter.

W-LINE WALL MOUNTED RACK CABINET

DRAWINGS

Exploded View

ÖN / FRONT	YAN / SIDE		ARKA KAPAK / BACK COVER		ÜST / TOP

386
225

450mm
465mm
44,45 (1U)
9,5 x 9,5
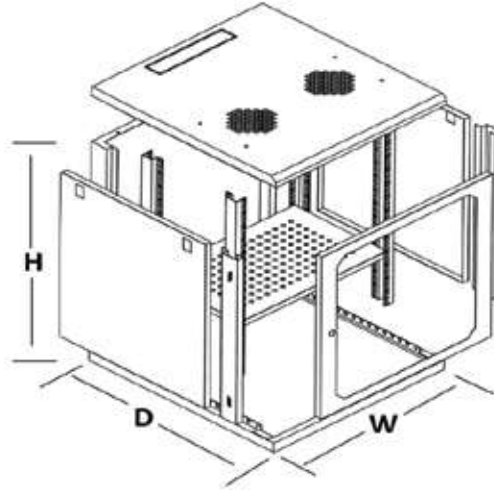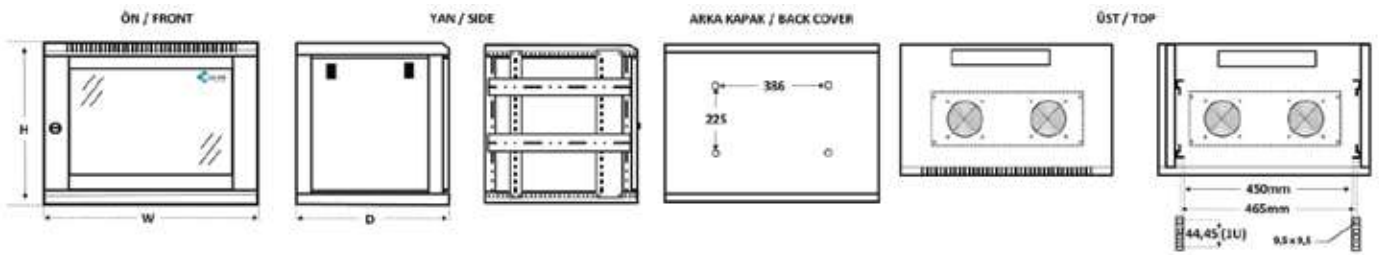
Rear Section

W-LINE
WALL MOUNTED
RACK CABINET

STANDARDS
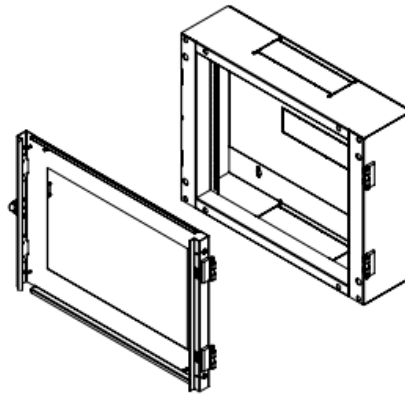
- 19" mounting to IEC 297-1
- EN 61587-1 mechanical structures (cabinets for electronic equipment)
- Overall cabinet dimensions for IEC 297-2 EN 61587 -1:2012 Mechanical Structures for Electronic Equipment
- IEC 297-1, 19'' mounting
- IEC 297-2 Overall cabinet dimentions
- Corrosion Resistance: ISO9227 and ASTM B 117-85

CERTIFICATES

ISO 9001:2008 Quality Management System

ISO 14001 Environmental Management System %100 Recyclable Material

CE conform to EN 60950-1:2006 Information Technology Equipment – Safety – Part-1-

RoHS Compliancy

W-LINE Rack Cabinet

Ordering Code	Description	Gross Weight in kg
UP-4UDVT-550X450	4U 550x450 Wall Mounted Rack Cabinet	10
UP-4UDVT-550X600	4U 550x600 Wall Mounted Rack Cabinet	14
UP-7UDVT-550X450	7U 550x450 Wall Mounted Rack Cabinet	14
UP-7UDVT-550X600	7U 550x600 Wall Mounted Rack Cabinet	19
UP-9UDVT-550X450	9U 550x450 Wall Mounted Rack Cabinet	17
UP-9UDVT-550X600	9U 550x600 Wall Mounted Rack Cabinet	21
UP-12UDVT-550X450	12U 550x450 Wall Mounted Rack Cabinet	22
UP-12UDVT-550X600	12U 550x600 Wall Mounted Rack Cabinet	25,5
UP-15UDVT-550X450	15U 550x450 Wall Mounted Rack Cabinet	26
UP-15UDVT-550X600	15U 550x600 Wall Mounted Rack Cabinet	29
UP-19UDVT-550X450	19U 550x450 Wall Mounted Rack Cabinet	30
UP-19UDVT-550X600	19U 550x600 Wall Mounted Rack Cabinet	32
UP-20UDVT-550X450	20U 550x450 Wall Mounted Rack Cabinet	32
UP-20UDVT-550X600	20U 550x600 Wall Mounted Rack Cabinet	34

FAN MODULES

DESCRIPTION

Single and Double Fan module are available and competible. Digital Thermostat is available at fan modules. Compatible with all model and brands of cabinets. Plug and play with on/off switches and plugs. Air removal capacity is 2.3-3 m3/minutes.

Colour : RAL 9005 Black & RAL 7035 White.

TECHNICAL SPECIFICATION

• 13,8/11,8W, 220/240 VAC

• 50/60 Hz, 0,07/0,06A, 2550/2750 rpm

• 42-47 dB noise level,

• Product Life 50.000 hours (40 C)?.

• Operating temperature range -10 C°~ +70 C °

Ordering Code	Description
U P - F M D F 1 T	1xFan Module Digital Thermostat
U P - F M D F 2 T	2x Fan Module Digital Thermostat
U P - F M D F 4 T	4x Fan Module Digital Thermostat
U P - F M O N F 1	1xFan Module with On/Switch
U P - F M O N F 2	2xFan Module with On/Switch
U P - F M O N F 4	4xFan Module with On/Switch

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POWER DISTRIBUTION UNITS (PDUs)

DESCRIPTION

Upcom's W-Line serie of PDUs range is engineered for simple, reliable and cost-effective power distribution, All ECO serie PDUs come in both horizontal and vertical type. 1U,2U, 19'' 16A with an of/off lighting switched, in black color, aluminium Housing. Horizontal PDUs mount easily in any standard EIA 19-inch rack, while vertical PDUs are ideal for mounting within a cabinet's Zero-U space.

Ordering Code	Description
UP-PRZ-PW3	3 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW6	6 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW8	8 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW9	9 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW12	12 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable

FIXED & SLIDING SHELVES

Sliding   Fixed

DESCRIPTION

19" shelves are the ideal accessory for your server and network installations. Made of steel with a thickness of 1,2 mm. Surface finish: degreasing, etching, phosphating, powder coating. Protected against rust, oxidation, scratches and corrosion. Compliant with ANSI/EIA RS-310-D, DIN41491 PART1, IEC297-2, DIN41494 PART7, and GB/T3047.2-92 standards. Compatible with metric ETSI and 19-inch international standards. Fixing points at the sides of rear and front 19'' mounting angles. Vented for air circulation. Adjustable depth. Made of steel sheet. Load carrying capacity is 50 kg for fixed shelves, 25 kg for sliding shelves. Compatible with all brand cabinets. Color options are RAL 9005 Black & RAL 7035 White.

Ordering Code	Dimensions (WxD)	Description
UP-RF-SAR250	47 x 25	Fixed Shelf 250 mm for D:400mm. Cabinets
UP-RF-YSBR600	47 x 30	Fixed Shelf 300 mm for D:600mm Cabinets
UP-RF-HR600	47 x 30	Sliding Shelf 300 mm for D:600mm Cabinets

HORIZONTAL CABLE MANAGER

DESCRIPTION

The range is suitable for all 19" applications. Made of sheet steel, easy to install and mount. Having 5 rings at each.

Ordering Code	Description
UP-ORG1U	1U Cable Organizer with 5 Rings
UP-ORG2U	2U Cable Organizer with 5 Rings

BLANK PANEL

DESCRIPTION

Blank panel is the perfect option to block the unused rack space and to improve both cooling effieincy and prevent air re-circulation. Fits for standard EIA-310-D compliant rails. Blank panel is for a Rack Panel made of 14-gauge steel with glossy Black or White finish.

Ordering Code	Description
UP-KPP1U	1U 19" Blank Panel Screwed Type
UP-KPP2U	2U 19" Blank Panel Screwed Type

CASTORS & LEVELLING FEET

DESCRIPTION

Ball bearing, swivel and hard composition wheels. They can move any direction you like to drive. 2 ea. front are lockable. Load capacity for each castor is for fixed 50 kg and moving 25kg. Load capacity for each levelling feet is 250 kg. Levelling feets allowing you to adjust height of the feet.

Ordering Code	Description
UP-WM-LF-4G	Leveling Feet 1 set(4 pcs)
UP-WM-CS-4G	Castors Set 1 set(4 pcs)

FIXINGS

Cage Nut Set 20pcs each set including Screws, Nuts, Plastic Washers M6. Suitable for rack mount fixing the patch panels, switches, PDU on cabinet.

Ordering Code	Description
UP-CNS-20P	Fixings: Screw 20pcs, Washer 20pcs, Cage nut 20pcs

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FS-LINE FREE STANDING RACK CABINET

DESCRIPTION

FS-Line 19" free standing rack cabinets provide a robust, cost-effective enclosure solution. PDU mounting or connectivity on both the front and rear of the cabinet. The FS-Line cabinet is ideal for high-density data center environments, enabling increased cabling and equipment density while providing excellent accessibility and thermal efficiency. All of these features are integrated into a full-featured modular enclosure that is equally effective as a standalone network and server cabinet.

CONSTRUCTION

Door	: Front door with glass door and perforated metal door option is available.
Material	: A1 quality steel HDG, carriers are 2 mm, mounting, the poles 1,5 mm.
Cable Entry	: On Top and bottom cable entry. Multiple cable entry points provide maximum versatility.
Mounting Rail	: 4 pcs of 19" adjustable mounting rails. Compatible with standard international 19 inch standard.
Side Panels	: Openning & lockable.
Painting	: Impact-resistant, Electrostatic powder painting. Color options are RAL 9005 Black & RAL 7035 White.
Rear Panel	: Can be removable and be mountable easily.
IP 20 rating	: IP20 according to EN61587-1, IEC60529. Protected against solid objects larger than 12,5 mm in diameter.

Heights : 12U, 15U, 16U, 19U, 20U, 25U, 27U, 30U 33U 35U 37U 39U 42U 45U

Width & Depth : 600x600mm
600x800mm
600x1000mm
800x800mm
800x1000mm

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FS-LINE FREE STANDING RACK CABINET

DRAWINGS

0.625" (15.90mm)
0.625" (15.90mm)
0.50" (12.70mm)

RETMA STANDARD

1 Rack Unit
1.750" (44.45mm)

The physical width of the rack can vary significantly

EIA STANDARD

Mounting Flange Dimensions
19" (465mm)

ÖN / FRONT   YAN / SIDE   ARKA KAPAK / BACK COVER   ÜST / TOP

450mm
465mm
44,45 (1U)   9,5 x 9,5

STANDARDS
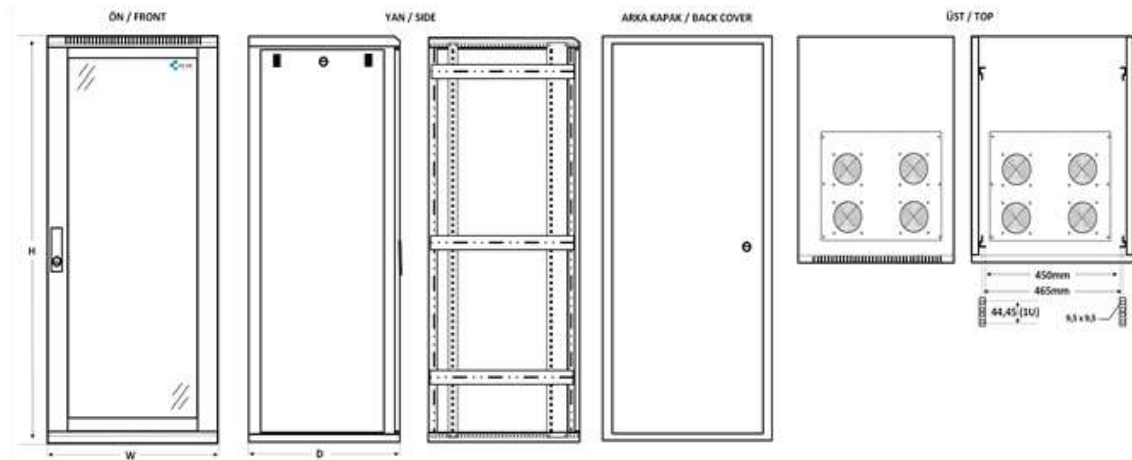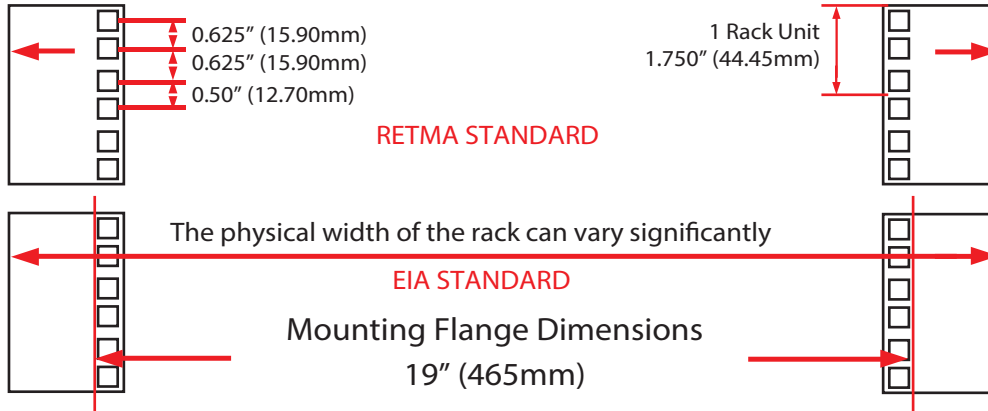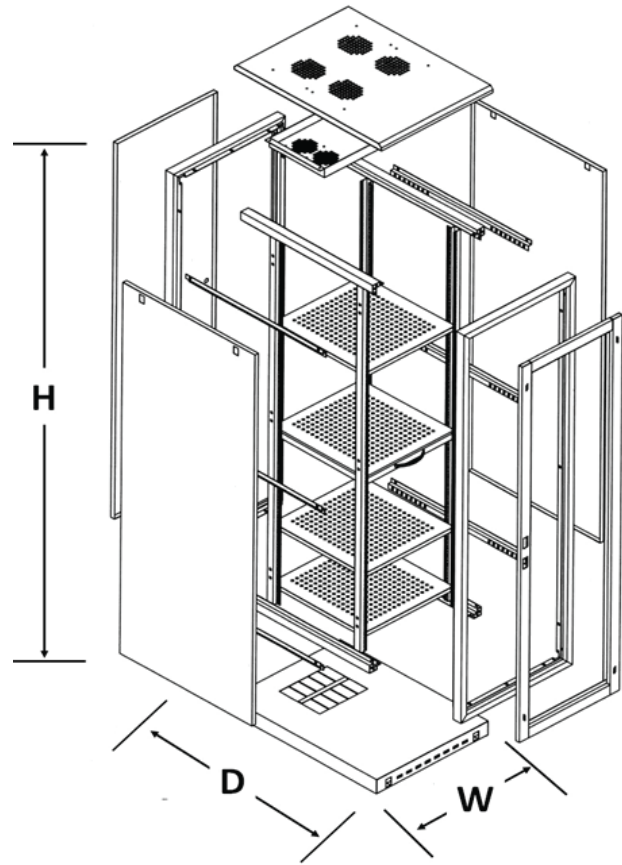
- ISO 9001:2000 TSE:EN 61587-1 Mechanical Structures For Electronic Equipment - Tests For IEC 60917 And IEC 60297
- Climatic and Environment: EN 61587-1/4.2, IEC60068-2-1, IEC60068-2-2, IEC60068-2-30,
- Static Mechanical Load Lifting: EN61587-1/5.2.1
- Static Mechanical Load Stiffness: EN61587-1/5.2.2
- Dynamic Mechanical Load Vibration and Shock, Impact: EN61587-1/5.3.1, EN61587-1/5.3.3, IEC60068-2-6, IEC60068-2-27,
- Earth Bond: EN61587-1/6.2
- Flammability: EN61587-1/6.3
- Degrees Of Protection Provided By Enclosures (Ip Code): IP20 or IP55, EN61587-1/6.4
- Load Carrying Capacity: 600 kg
- Surface Treatment: Fosfat coating
- Corrosion Resistance: ISO9227 and ASTM B 117-85
- Painting: Ral7035 / Ral9005

CERTIFICATES

ISO 9001:2008 Quality Management System

ISO 14001 Environmental Management System %100 Recyclable Material

CE conform to EN 60950-1:2006 Information Technology Equipment – Safety – Part-1-

RoHS Compliancy

FS-LINE FREE STANDING RACK CABINET

FS-LINE FREE STANDING CABINET

Ordering Code	Description	Gross Weight in kg
UP-16UYRT-600X600	16U-600X600-19" Free Standing Cabinets	47
UP-16UYRT-600X800	16U-600X800-19" Free Standing Cabinets	60
UP-16UYRT-600X1000	16U-600X1000-19" Free Standing Cabinets	66
UP-16UYRT-800X800	16U-800X800-19" Free Standing Cabinets	70
UP-16UYRT-800X1000	16U-800X1000-19" Free Standing Cabinets	83
UP-20UYRT-600X600	20U-600X600-19" Free Standing Cabinets	54
UP-20UYRT-600X800	20U-600X800-19" Free Standing Cabinets	65,2
UP-20UYRT-600X1000	20U-600X1000-19" Free Standing Cabinets	69,5
UP-20UYRT-800X800	20U-800X800-19" Free Standing Cabinets	73
UP-20UYRT-800X1000	20U-800X1000-19" Free Standing Cabinets	92
UP-25UYRT-600X600	25U-600X600 -19" Free Standing Cabinets	60
UP-25UYRT-600X800	25U-600X800 -19" Free Standing Cabinets	72
UP-25UYRT-600X1000	25U-600X1000-19" Free Standing Cabinets	80,5
UP-25UYRT-800X800	25U-800X800-19" Free Standing Cabinets	84
UP-25UYRT-800X1000	25U-800X1000-19" Free Standing Cabinets	105
UP-27UYRT-600X600	27U-600X600-19" Free Standing Cabinets	62,7
UP-27UYRT-600X800	27U-600X800-19" Free Standing Cabinets	74,5
UP-27UYRT-600X1000	27U-600X1000-19" Free Standing Cabinets	86
UP-27UYRT-800X800	27U-800X800-19" Free Standing Cabinets	91
UP-27UYRT-800X1000	27U-800X1000-19" Free Standing Cabinets	110
UP-30UYRT-600X600	30U-600X600-19" Free Standing Cabinets	66,9
UP-30UYRT-600X800	30U600X800-19" Free Standing Cabinets	78,5
UP-30UYRT-600X1000	30U-600X1000-19" Free Standing Cabinets	93
UP-30UYRT-800X800	30U-800X800-19" Free Standing Cabinets	98
UP-30UYRT-800X1000	30U-800X1000-19" Free Standing Cabinets	118
UP-33UYRT-600X600	33U-600X600-19" Free Standing Cabinets	70,8
UP-33UYRT-600X800	33U-600X800-19" Free Standing Cabinets	82,5
UP-33UYRT-600X1000	33U-600X1000-19" Free Standing Cabinets	100
UP-33UYRT-800X800	33U-800X800-19" Free Standing Cabinets	105
UP-33UYRT-800X1000	33U-800X1000-19" Free Standing Cabinets	125
UP-37UYRT-600X600	37U-600X600-19" Free Standing Cabinets	76,2
UP-37UYRT-600X800	37U-600X800-19" Free Standing Cabinets	87,5
UP-37UYRT-600X1000	37U-600X1000-19" Free Standing Cabinets	109
UP-37UYRT-800X800	37U-800X800-19" Free Standing Cabinets	114
UP-37UYRT-800X1000	37U-800X1000-19" Free Standing Cabinets	133
UP-39UYRT-600X600	39U-600X600-19" Free Standing Cabinets	78,9
UP-39UYRT-600X800	39U-600X800-19" Free Standing Cabinets	90
UP-39UYRT-600X1000	39U-600X1000-19" Free Standing Cabinets	114
UP-39UYRT-800X800	39U-800X800-19" Free Standing Cabinets	119
UP-39UYRT-800X1000	39U-800X1000-19" Free Standing Cabinets	140
UP-42UYRT-600X600	42U-600X600-19" Free Standing Cabinets	83
UP-42UYRT-600X800	42U-600X800-19" Free Standing Cabinets	94
UP-42UYRT-600X1000	42U-600X1000-19" Free Standing Cabinets	121
UP-42UYRT-800X800	42U-800X800-19" Free Standing Cabinets	126
UP-42UYRT-800X1000	42U-800X1000-19" Free Standing Cabinets	137
UP-45UYRT-600X600	45U-600X600-19" Free Standing Cabinets	88
UP-45UYRT-600X800	45U-600X800-19" Free Standing Cabinets	98
UP-45UYRT-600X1000	45U-600X1000-19" Free Standing Cabinets	128
UP-45UYRT-800X800	45U-800X800 -19" Free Standing Cabinets	133
UP-45UYRT-800X1000	45U-800X1000-19" Free Standing Cabinets	143

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FAN MODULES

DESCRIPTION

Single and Double Fan module are available and competible. Digital Thermostat is available at fan modules. Compatible with all model and brands of cabinets. Plug and play with on/off switches and plugs. Air removal capacity is 2.3-3 m3/minutes.

Colour : RAL 9005 Black & RAL 7035 White.

TECHNICAL SPECIFICATION

• 13,8/11,8W, 220/240 VAC

• 50/60 Hz, 0,07/0,06A, 2550/2750 rpm

• 42-47 dB noise level,

• Product Life 50.000 hours (40 C)°.

• Operating temperature range -10 C°~ +70 C °

Ordering Code	Description
U P - F M D F 1 T	1xFan Module Digital Thermostat
U P - F M D F 2 T	2xFan Module Digital Thermostat
U P - F M D F 4 T	4xFan Module Digital Thermostat
U P - F M O N F 1	1xFan Module with On/Switch
U P - F M O N F 2	2xFan Module with On/Switch
U P - F M O N F 4	4xFan Module with On/Switch

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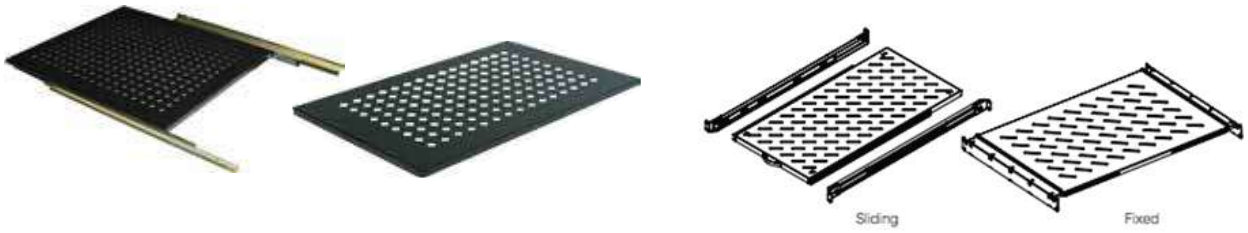info@upcom.com.tr
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POWER DISTRIBUTION UNITS (PDUs)

DESCRIPTION

Upcom's W-Line serie of PDUs range is engineered for simple, reliable and cost-effective power distribution, All ECO serie PDUs come in both horizontal and vertical type. 1U,2U, 19" 16A with an of/off lighting switched, in black color, aluminium Housing. Horizontal PDUs mount easily in any standard EIA 19-inch rack, while vertical PDUs are ideal for mounting within a cabinet's Zero-U space.

Ordering Code	Description
UP-PRZ-PW3	3 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW6	6 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW8	8 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW9	9 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable
UP-PRZ-PW12	12 Way PDU, Cct breaker, 1x16A, 250V, 4000W, Halogenfree, Aluminium Housing, 2m Cable

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FIXED & SLIDING SHELVES

Sliding   Fixed

DESCRIPTION

19" shelves are the ideal accessory for your server and network installations. Made of steel with a thickness of 1,2 mm. Surface finish: degreasing, etching, phosphating, powder coating. Protected against rust, oxidation, scratches and corrosion. Compliant with ANSI/EIA RS-310-D, DIN41491 PART1, IEC297-2, DIN41494 PART7, and GB/T3047.2-92 standards. Compatible with metric ETSI and 19-inch international standards. Fixing points at the sides of rear and front 19'' mounting angles. Vented for air circulation. Adjustable depth. Made of steel sheet. Load carrying capacity is 50 kg for fixed shelves, 25 kg for sliding shelves. Compatible with all brand cabinets.

Color options are RAL 9005 Black & RAL 7035 White.

Ordering Code	Description
UP-RF-YSBR600	Fixed Shelf - 300 mm. for Cabinets having D:600mm.
UP-RF-YSBR800	Fixed Shelf - 500 mm. or Cabinets having D:800mm.
UP-RF-YSBR1000	Fixed Shelf - 720 mm. or Cabinets having D:1000mm.
UP-RF-HR600	Sliding Shelf 300 mm. For Cabinets having D:600mm.
UP-RF-HR800	Sliding Shelf 500 mm. For Cabinets having D:800mm.
UP-RF-HR1000	Sliding Shelf 720 mm. For Cabinets having D:1000mm.

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HORIZONTAL CABLE MANAGER

DESCRIPTION

The range is suitable for all 19" applications. Made of sheet steel, easy to install and mount. Having 5 rings at each.

Ordering Code	Description
UP-ORG1U	1U Cable Organizer with 5 Rings
UP-ORG2U	2U Cable Organizer with 5 Rings

BLANK PANEL

DESCRIPTION

Blank panel is the perfect option to block the unused rack space and to improve both cooling effieincy and prevent air re-circulation. Fits for standard EIA-310-D compliant rails. Blank panel is for a Rack Panel made of 14-gauge steel with glossy Black or White finish.

Ordering Code	Description
UP-KPP1U	1U 19" Blank Panel Screwed Type
UP-KPP2U	2U 19" Blank Panel Screwed Type

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CASTORS & LEVELLING FEET

DESCRIPTION

Ball bearing, swivel and hard composition wheels. They can move any direction you like to drive. 2 ea. front are lockable. Load capacity for each castor is for fixed 50 kg and moving 25kg. Load capacity for each levelling feet is 250 kg. Levelling feets allowing you to adjust height of the feet.

Ordering Code	Description
UP-WM-LF-4G	Leveling Feet 1 set(4 pcs)
UP-WM-CS-4G	Castors Set 1 set(4 pcs)

FIXINGS

Cage Nut Set 20pcs each set including Screws, Nuts, Plastic Washers M6. Suitable for rack mount fixing the patch panels, switches, PDU on cabinet.

Ordering Code	Description
UP-CNS-20P	Fixings: Screw 20pcs, Washer 20pcs, Cage nut 20pcs