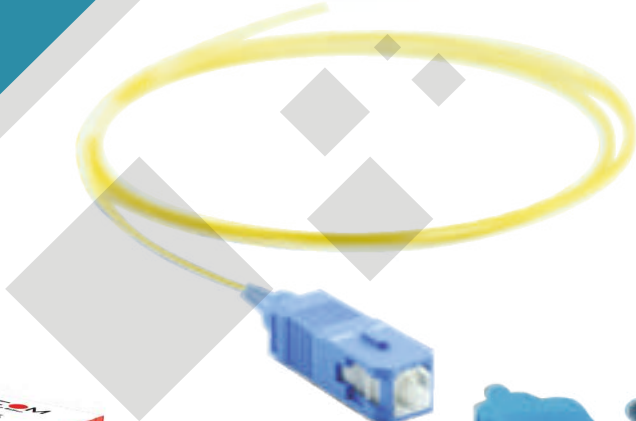




Copper & Fiber Connectivity



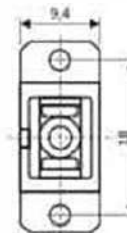
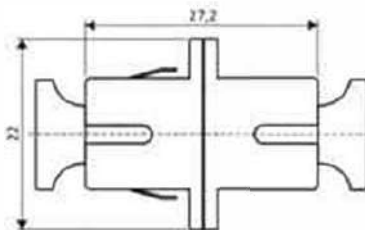
www.upcom.com.tr

Singlemode adapter SC/LC-APC/UPC



mechanical properties

Housing material	plastic LSZH
Alignment sleeve	ceramic (zirconia)
Insertion loss	< 0,2 dB
Durability	500
Operating temperature	-40°C to +80°C



SM-MM-APC adapter

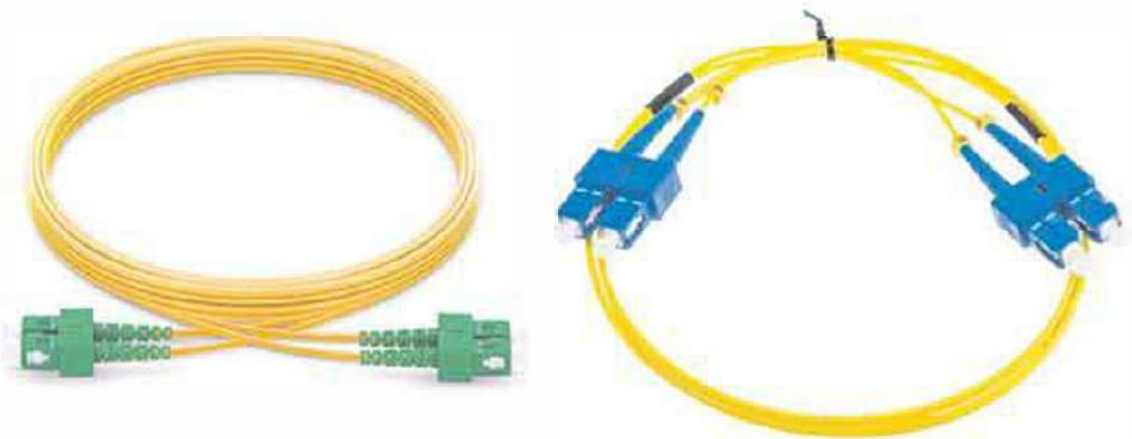


mechanical properties

Housing material	plastic LSZH
Alignment sleeve	ceramic (zirconia)
Insertion loss	< 0.2 dB
Durability	500
Operating temperature	-40°C to +80°C

Patchcord SC/APC-SC/UPC

OJC sc/apc-upc patchcord Os2 singlemode 9/125 µm (ITU-T G.652D-G.657A2/B2)



connector SC/APC properties

Connector SC/APC	singlemode OS2
Polishing	APC
Return loss	> 65 dB
Insertion loss	0.15 dB (typical)
Ferrule material	ceramic (zirconia)
Ferrule diameter	2,5 mm
Insertion / extraction cycles	min. 1000

connector SC properties

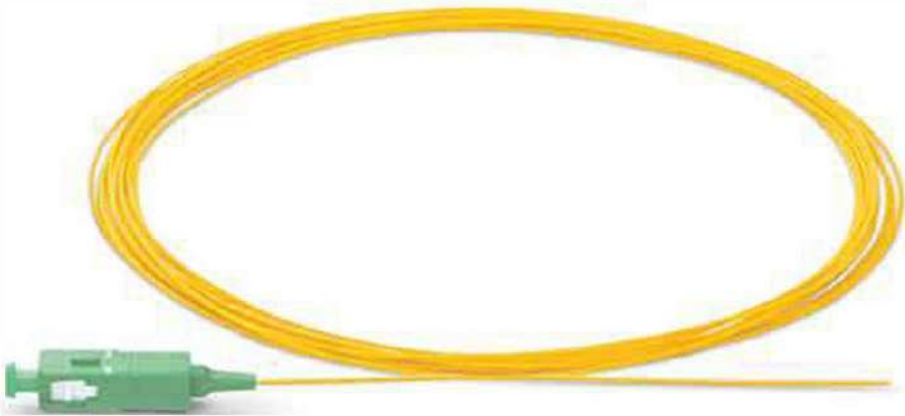
Connector SC	singlemode OS2
Polishing	PC
Return loss	≥ 55 dB
Insertion loss	0.15 dB (typical)
Ferrule material	ceramic (zirconia)
Ferrule diameter	2,5 mm
Insertion / extraction cycles	min. 1000

cable properties

Cabled optical fibre	OS2
Nominal diameter core / sheath	9 / 125 µm
Color	yellow
Outer diameter	3 mm ± 2 mm
Sheath material	LSOH
Bending radius (static)	45 mm
Temperature range	-20 °C to +70 °C
Attenuation @ 1310 / 1383 / 1550 nm (dB/km)	≤ 0,4 / ≤ 0,4 / ≤ 0,4

Pigtail SC/APC

OJC sc-apc pigtail OS2 singlemode 9/125 µm (ITU-T G.652.D/G657A2)



mechanical properties

Connector SC/APC	singlemode OS2
Polishing	APC
Return loss	> 65 dB
Insertion loss	0,20 dB (typical)
Length	1,5 m
Sheath material	Lzsh-halogen-free secondary EASySTRIP protection
Ferrule material	of 900 µm ceramic (zirconia)
Ferrule diameter	2,5 mm
Temperature range	-20 °C to +60 °C
Outer diameter	900±5 µm
Bending radius (static)	10 x 0,9 mm
Attenuation @ 850 / 1300 nm (dB/km)	-
Attenuation @ 1310 / 1383 / 1550 nm (dB/km)	≤ 0,4 / ≤ 0,4 / ≤ 0,4
Bandwidth 850 / 1300 nm (MHz.km)	-

Patchcords SC/LC/ST/FC

OM1 multimode 62,5/125 µm

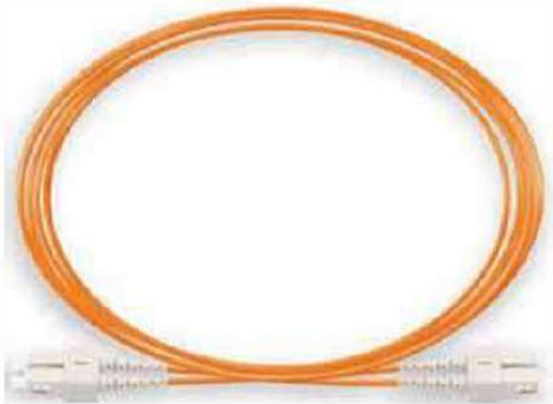
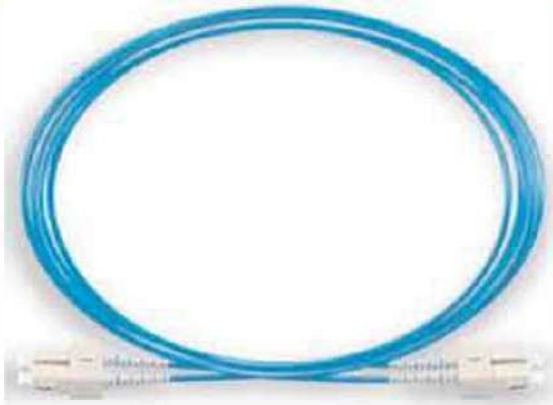
OM2 multimode 50/125 µm

OM3 multimode 50/125 µm

OM4 multimode 50/125 µm

OS2 singlemode 9/125 µm (ITU-T G.652.D)

Note. : patch cord length must be specified in the order.



connector SC properties

Connector SC	multimode OM1, OM2, OM3, OM4	singlemode OS2
Polishing	PC	PC
Return loss	≥ 20 dB	≥ 55 dB
Insertion loss	≤ 0,3 dB	0,15 dB (typical)
Ferrule material	ceramic (zirconia)	ceramic (zirconia)
Ferrule diameter	2,5 mm	2,5 mm
Insertion / extraction cycles	min. 1000	min. 1000

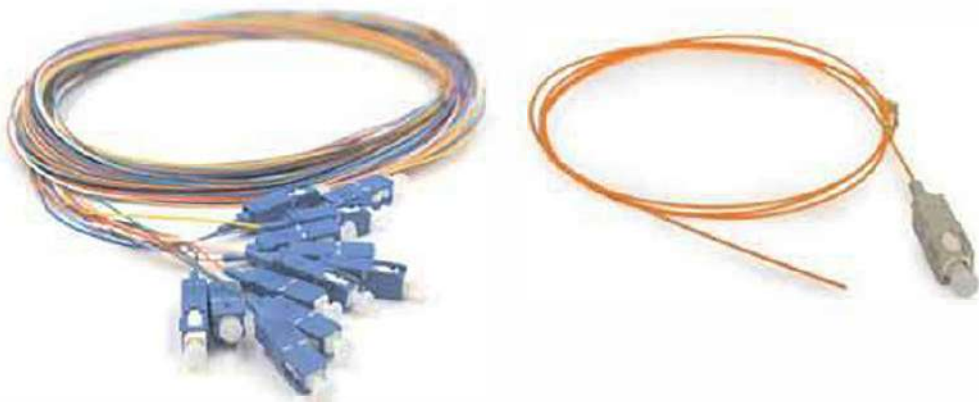
cable properties

Cabled optical fibre	OM1	OM2	OM3	OM4	OS2
Nominal diameter core / sheath	62,5 / 125 µm	50 / 125 µm	50 / 125 µm	50 / 125 µm	9 / 125 µm
Color	orange	orange	turquoise	purple	yellow
Outer diameter	3 mm a 2 mm	3 mm a 2 mm	3 mm a 2 mm	3 mm a 2 mm	3 mm a 2 mm
Sheath material	LSOH	LSOH	LSOH	LSOH	LSOH
Bending radius (static)	45 mm	45 mm	45 mm	45 mm	45 mm
Temperature range	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Attenuation @ 850 / 1300 nm (dB/k m)	≤ 3,2 / ≤ 0,8	≤ 3,2 / ≤ 0,8	≤ 3,2 / ≤ 0,8	≤ 3,2 / ≤ 0,8	≤ 3,2 / ≤ 0,8
Attenuation @ 1310 / 1383 / 1550 nm (dB/km)	-	-	-	-	≤ 0,4 / ≤ 0,4 / ≤ 0,4

Bandwidth	OM1	OM2	OM3	OM4
850 / 1300 nm (MHz.km) @ LED	200 / 500	500 / 500	1500 / 500	3500 / 500
850 nm (MHz.km) @ LASER	-	-	2000	4700

Pigtail sc-upc sc-mm

OM1 multimode 62,5/125 μm
OM2 multimode 50/125 μm
OM3 multimode 50/125 μm
OS2 singlemode 9/125 μm (ITU-T G.652.D)



mechanical properties

Connector SC	multimode OM1, OM2, OM3, OM4	singlemode OS2
Polishing	PC	PC
Return loss	≥ 20 dB	≥ 55 dB
Insertion loss	$\leq 0,3$ dB	0,15 dB (typical)
Length	2 m	2 m
Sheath material	Lszh halogen-free secondary EASySTRIP protection of 900 μm	
Ferrule material	ceramic (zirconia)	ceramic (zirconia)
Ferrule diameter	2.5 mm	2.5 mm
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C
Outer diameter	900 $\pm$ 5 μm	900 $\pm$ 5 μm
Bending radius (static)	10 x 0,9 mm	10 x 0,9 mm
Attenuation @ 850 / 1300 nm (dB/km)	$\leq 3,2$ / $\leq 0,8$	-
Attenuation @ 1310 / 1383 / 1550 nm (dB/km)	-	$\leq 0,4$ / $\leq 0,4$ / $\leq 0,4$
Bandwidth 850 / 1300 nm (MHzkm)	≥ 500 / ≥ 500	-

OJC 1x2-1x4-1x8-1x16-1x32-1x64 Splitterr-Iszh

Description:

Planar Lightwave Circuit (PLC Splitter) is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and excellent channel-to-channel uniformity. As a result, it is widely used in PON networks to realize optical signal power splitting.

- Single mode SC/APC splitters with different configurations.
- Low Insertion Loss, Back Reflection and PDL
- Operating Temperature: -20 ~ +70 °C
- Storage Temperature: -40 ~ +85 °C

Applications:

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



Technical Specifications for PLC Splitter:

Parameter	Values						Units
Operating Wavelength	1310 - 1550						nm
Configuration	1x2	1x4	1x8	1x16	1x32	1x64	--
Max. Insertion Loss	3.8	7,1	10.5	13.7	16,9	21.0	dB
Max. Uniformity	0,4	0,6	0,8	1.2	1,5	2,5	dB
Max. PDL	0,15	0,2	0,2	1,25	0,3	0,35	dB
Min. Return Loss	55						dB
Min Directivity	55						dB
Operating Temperature	-40 to +85						°C
Dimensions	3,2x3,9x40						mm

1xN cascade type with SC-APC LSZH 2mm tube

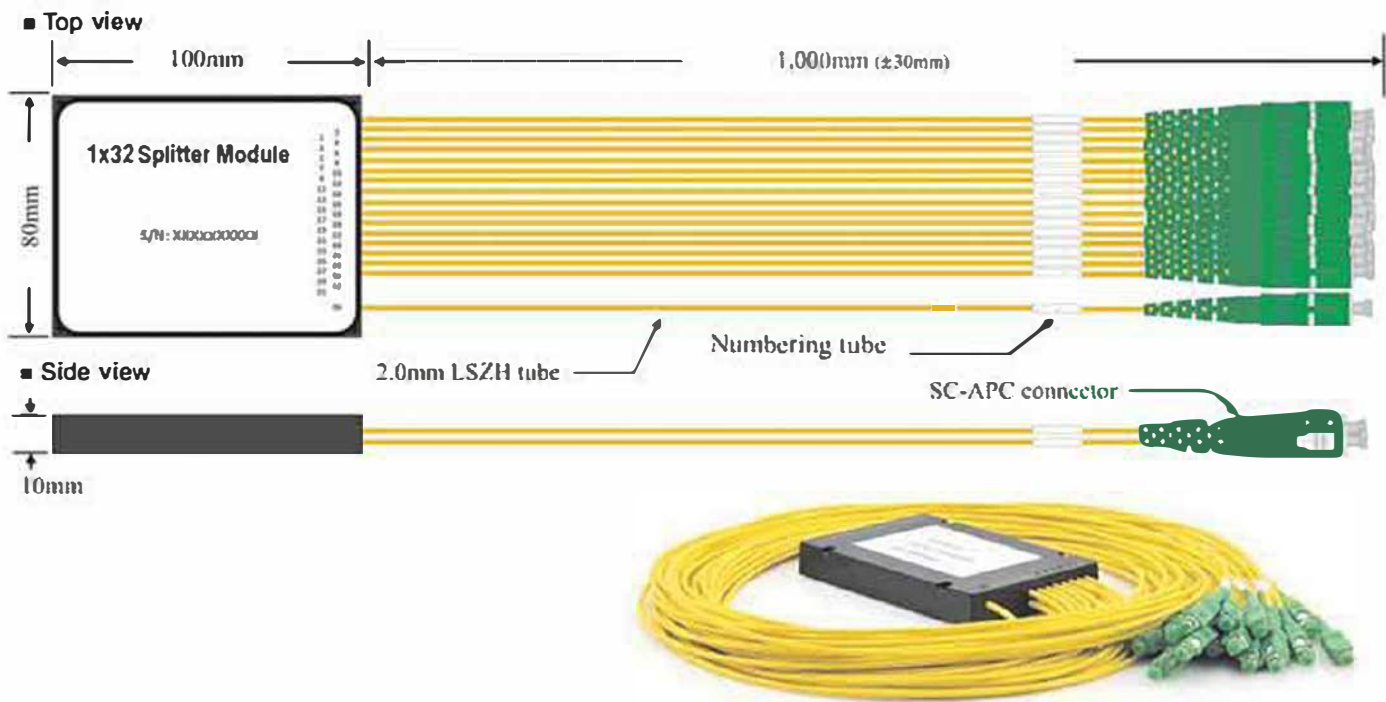
Optical Specification

Parameter	Unit		Specification				
			1x2	1x4	1x8	1x16	1x32
Operating Wavelength	nm		1260 ~ 1360, 1450 ~ 1650				
Insertion Loss	Max	dB	≥ 4.0	≥ 7.5	≥ 10.5	≥ 14.0	≥ 17.0
Uniformity	Max	dB	≥ 0.6	≥ 0.8	≥ 1.0	≥ 1.2	≥ 2.0
Polarization Dependence Loss	Max	dB	≥ 0.2	≥ 0.2	≥ 0.2	≥ 0.2	≥ 0.2
Return Loss	Min	dB	≥ 55				
Directivity	Min	dB	≥ 55				
Operating Temperature	°C		-20 °C to +60°C				
Storage Temperature	°C		-40 °C to +70°C				
Operating Humidity	%		≥95% RH				
Storage Humidity	%		≥95% RH				

Mechanical Specification

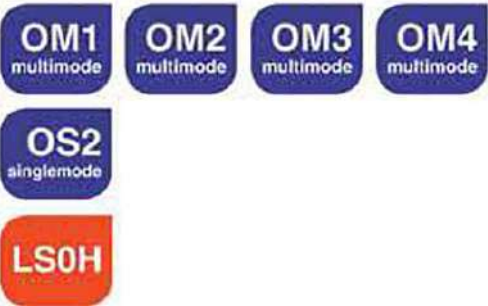
Parameter	Unit		Specification				
			1x2	1x4	1x8	1x16	1x32
Case Dimension	Width	mm	100				
	Length		80				
	Height		10				
Case Material	-		Plastic (ABS Case)				
Fiber Type	-		G 657 A2/B2				
Input Fiber	-		2mm LSZH Yellow Tube				
Input Fiber Length	mm		1,000 (±30mm)				
Output Fiber	-		2mm LSZH Yellow Tube				
Output Fiber Length	mm		1,000 (±30mm)				
Connector Type (IN&OUT)	-		SC/APCconnector				

Example (Schematic Drawing of 1x32 cascade type)



Patch cords Duplex LC-LC

OM1 multimode 62,5/125 µm
OM2 multimode 50/125 µm
OM3 multimode 50/125 µm
OM4 multimode 50/125 µm
OS2 singlemode 9/125 µm (ITU-T G.652.D)



connector LC properties

Connector LC	multimode OM1, OM2, OM3, OM4	singlemode OS2
Polishing	PC	PC
Return loss	≥ 20 dB	≥ 55 dB
Insertion loss	≥ 0,3 dB	0,15 dB (typical)
Ferrule material	ceramic (zirconia)	ceramic (zirconia)
Ferrule diameter	1,25 mm	1,25 mm
Insertion / extraction cycles	min. 1000	min. 1000

cable properties

cabled optical fibre	OM1	OM2	OM3	OM4	OS2
Nominal diameter core / sheath	62,5 / 125 µm	50 / 125 µm	50 / 125 µm	50 / 125 µm	9 / 125 µm
Color	orange	orange	turquoise	purple	yellow
Outer diameter					
Sheath material					
Bending radius (static)					
Temperature range	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Attenuation @ 850 / 1300 nm (dB/km)	≥ 3,2 / ≥ 0,8	≥ 3,2 / ≥ 0,8	≥ 3,2 / ≥ 0,8	≥ 3,2 / ≥ 0,8	≥ 3,2 / ≥ 0,8
Attenuation @ 1310 / 1383 / 1550 nm (dB/km)	-	-	-	-	≥ 0,4 / ≥ 0,4 / ≥ 0,4

Bandwidth	OM1	OM2	OM3	OM4
850 / 1300 nm (MHz.km) @ LED	200 / 500	500 / 500	1500 / 500	3500 / 500
850 nm (MHz.km) @ LASER	-	-	2000	4700

MTP/MPO Fanout

Assembly

MTP/MPO fanout assemblies are used to fanout the MTP connectors terminated on ribbon cables into simplex style connectors with 900um furcations.

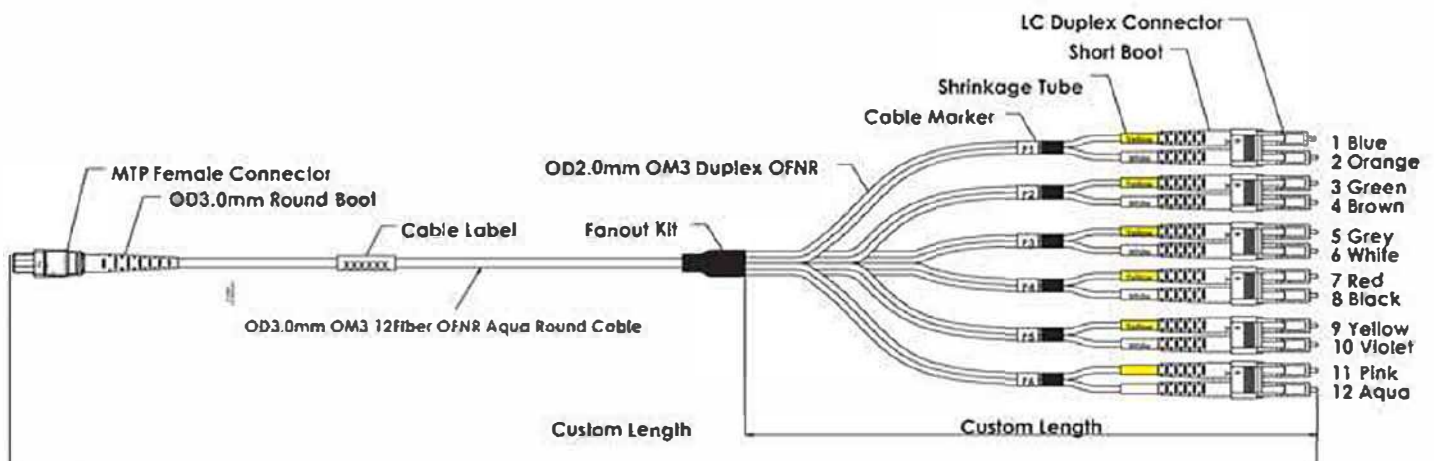
This compact design solution is particular suitable for installing in closet area or horizontal patch extension from consolidation point to the workstation outlets.



Features and Applications

- Compact design for installation in closet area or horizontal patch extension
- Choices of either both ends with Male or Female connector
- MTP connector to be terminated on ribbon jacket
- Transition through fanout unit with 900um furcation to SM connectors
- Jacketed ribbon cable for space saving
- High precision factory pre-terminated and factory tested assemblies made according to TIA/EIA and IEC standards

MTP Female to LC Duplex 12Fiber Multimode OM3 OFNR Round Cable, Furcation 500mm, Overall Cable Length 2 Meter, Fanout Patch Cord



MTP/MPO Assembly

MTP and MPO patchcords are constructed from a 12-fiber round mini-core cable, which has a minimal cable diameter while offering excellent bending flexibility. It is pre-terminated with a 12-fiber MTP connector on both ends, with customer-specified cable type and length. This high density patchcord type can be used to speed up installation, minimize errors and reduce space.

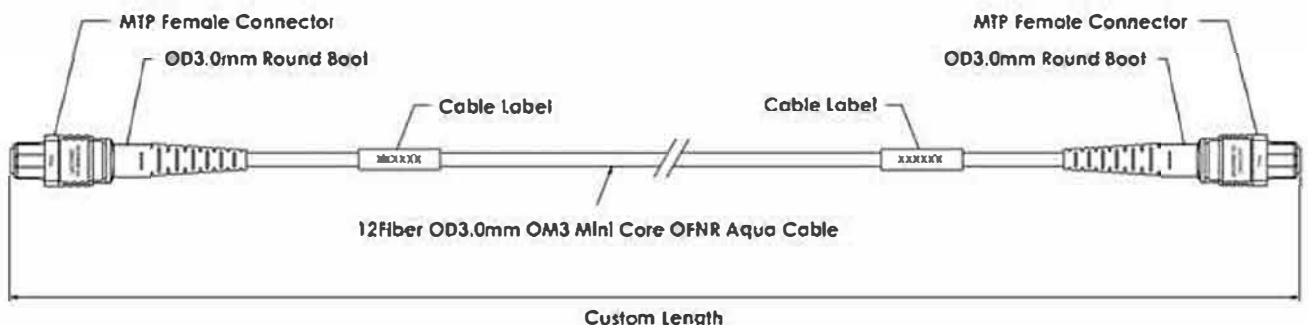


Features and Applications

- For interconnect between equipments, patching or backbone installation
- Choices of either both ends with Male or Female connector
- 12-fiber round mini-core cable structure to eliminate bend sensitivity
- Customized length to fit for each installation needs
- High precision factory pre-terminated and factory tested assemblies made according to TIA/EIA standards

Item Description

MTP Female to MTP Female 12Fiber OM3 OFNR 10 Feet Patch Cord



MTP/MPO Hybrid Trunk Assembly

MTP/MPO hybrid trunk assemblies are used to support the direct connection between patch panel and the equipment. It is pre-terminated with MTP connectors on one end, and simplex or duplex generic connector (LC, SC etc) on the other end.

Cables are available in 24/36/48/72/96 and 144F, with choices of round Mini-core and Adventum cable to fit for each installation needs.

Features and Applications

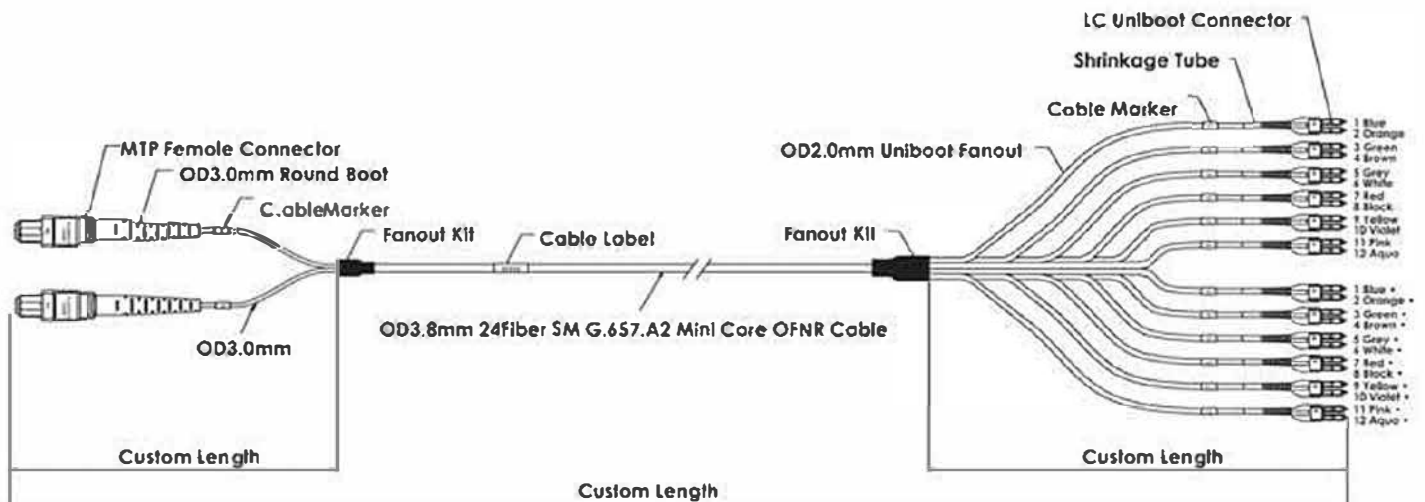
- To install directly into system equipment ports or patch panels
- Choices of either both ends with Male or Female connector
- 2mm or 3mm ruggedized furcation legs in customized length
- Cable options of mini-core or Adventum cable to fit for different demands
- Available in 12/24/36/48/72/96 and 144 fibers
- Pulling eye design to fit for different installation environment
- High precision factory pre-terminated and factory tested assembly made comply to TIA/EIA and IEC standards



Specification and Drawing

Item Description

MTP Female to LC Uniboot 24Fiber Singlemode G.657.A2 OFNR Mini Cable, 1st Furcation 500mm, 2nd Furcation 500mm, Overall Cable Length 10 Meter, without Pulling Eye. Hybrid Trunk Patch Cord



Armoured patchcord LC-SC-FC-ST

- OM1 multimode 62.5/125 µm
- OM2 multimode 50/125 µm
- OM3 multimode 50/125 µm
- OM4 multimode 50/125 µm
- OS2 singlemode 9/125 µm (ITU-T G.652.D)

OM1

multimode

OM2

multimode

OS2

singlemode

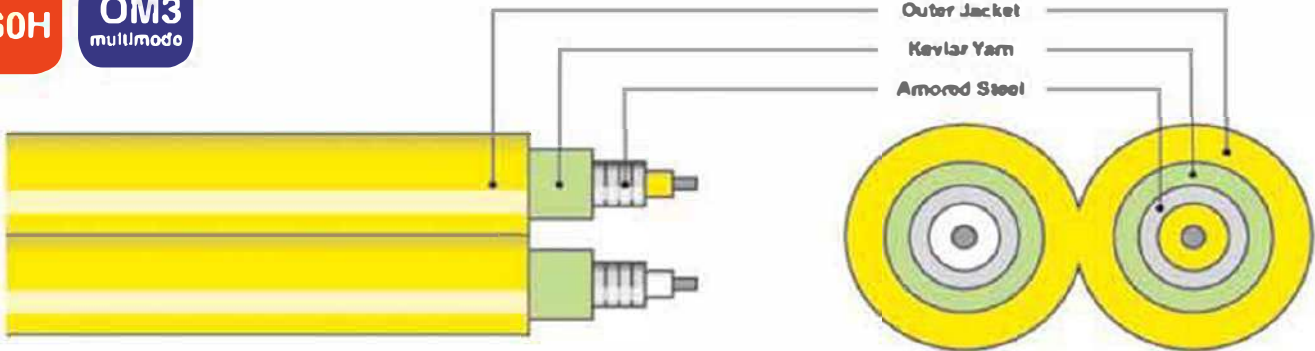
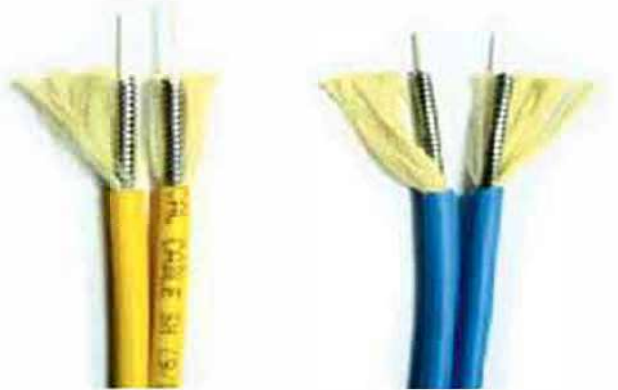
OM4

multimode

LSOH

OM3

multimode



connector LC properties

Connector LC	multimode OM1, OM2, OM3, OM4	singlemode OS2
Polishing	PC	PC
Return loss	≥ 20 dB	≥ 55 dB
Insertion loss	≥ 0.3 dB	0.15 dB (typical)
Ferrule material	ceramic (zirconia)	ceramic (zirconia)
Ferrule diameter	1,25 mm	1,25 mm
Insertion / extraction cycles	min. 1000	min. 1000

Bandwidth	OM1	OM2	OM3	OM4
850 / 1300 nm (MHz.km) @ LED	200 / 500	500 / 500	1500 / 500	3500 / 500
850 nm (MHz.km) @ LASER	-	-	2000	4700

2-8),%(5237,&& OUTDOOR CABLE SPECIFICATIONS LC-LC 7.0MM OM2 BREAKOUT PATCHCORD Technical Specification

1. Description

Fiber optic patch cord can be classified to FC, SC, LC and ST. With the high-quality ceramic ferrules, it has good conformity and low Insertion Loss. And it is widely used in the Telecommunication Networks, Data Transmission, Test Equipment and the LAN of CATV etc.

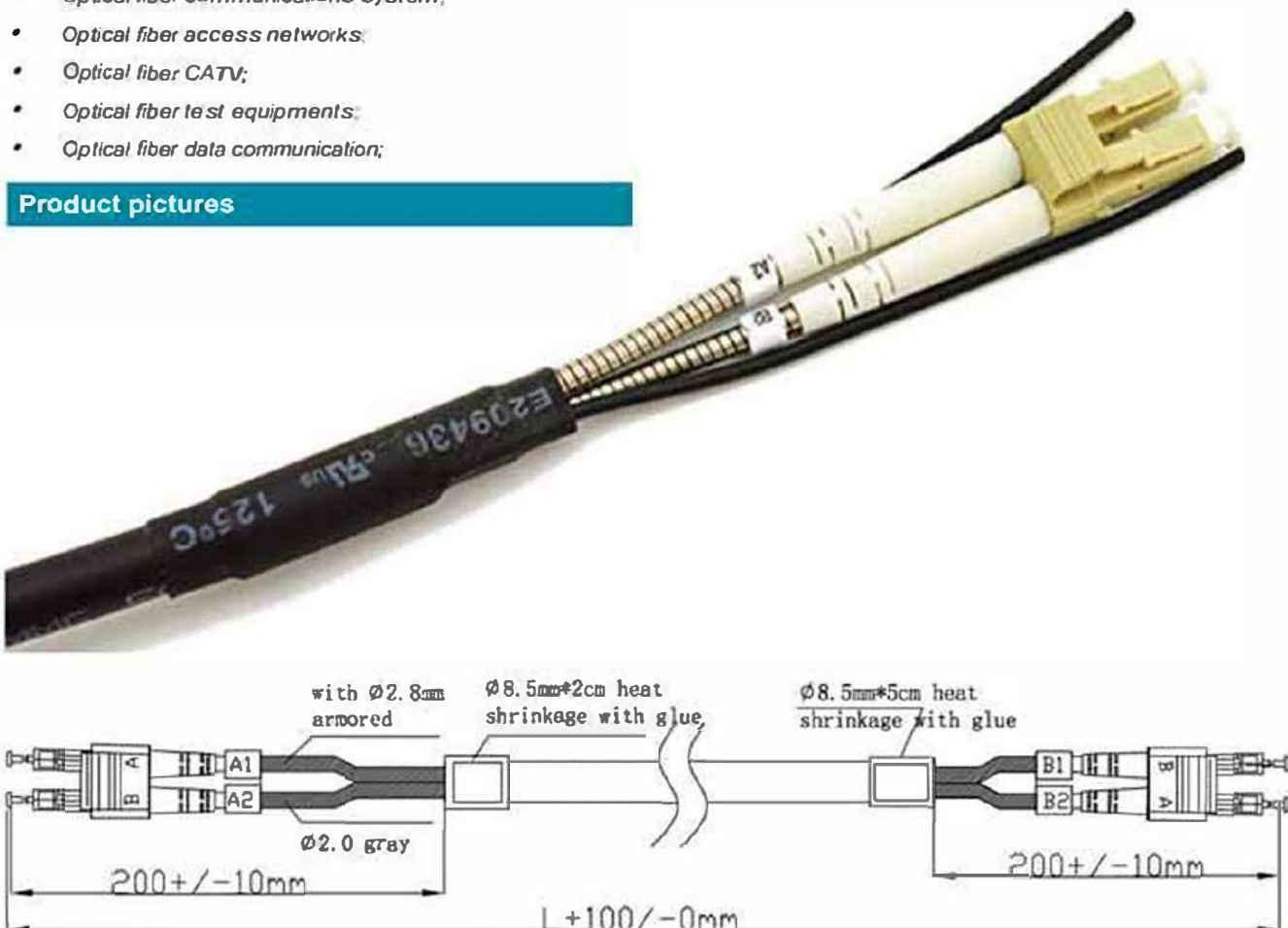
2. Feature

- Low insertion loss and high return loss;
- Good repeatability & interchangeability;
- PC, UPC, polishing, FC, SC, ST, LC connector;
- Suitable for high-speed, high-capacity optical fiber transmission system;
- Provide single mode/ multimode patch cord and pigtails;
- Fiber diameter: $\Phi 2.0\text{mm}$, $\Phi 3.0\text{mm}$;
- Length/Type: according to customers' demands.
- This patchcord is for indoor and outdoor use;
- Not metallic cable;
- Cable will not damage from blow, will not break when it is pushed by foot or strength.

3. Application

- Optical fiber communications system;
- Optical fiber access networks;
- Optical fiber CATV;
- Optical fiber test equipments;
- Optical fiber data communication;

Product pictures



5. Technical standard

Technical parameters

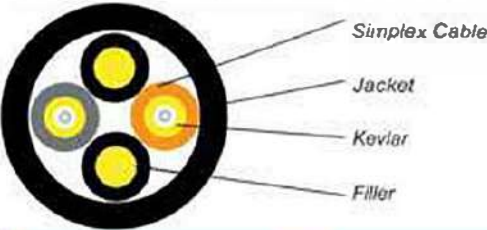
Table with 5 columns: NO., Item, Unit, Single Mode, Multi-Mode. Rows include Insertion loss, Return loss, Repeatability, Working Times, Operating Temperature, and Optical Cable Diameter.

3D Specification

Table with 4 columns: Item, PC Polishing, APC Polishing, Schematic Diagram. Rows include Ferrule Diameter, Radius of Curv, Fiber Height, Apex Off.set, and Angle.

6. Cable : LSZH , Corning Fiber/yofc

Fiber Breakout Cable Profile View



Fiber Optic Cable Technical Parameters

Table with 2 columns: Item, Specification. Rows include Fiber Count, Buffer, Simplex cable, Filler, and Strength Member.

Technical Characteristics

No	Items		unit	Specifications
				A1a
1	Core Diameter		μm	50±2.5
2	Cladding Diameter		μm	125±1.0
3	Core non-circularity		%	≤6.0
4	Cladding non-circularity		%	≤2.0
5	Core-cladding concentricity		μm	≤1.0
6	Coating Diameter		μm	245±10
7	Cladding -coating concentricity		μm	≤12.5
8	Attenuation(max.)	850nm	dB/km	3.5
		1310nm		1.5
Jack et	Diameter		7.0 ⁺⁰ _{-0.2} mm	
	Thickness		0.95 mm±0.05mm	
	Material		LSZH capsaicin inside	
	Color		Black	

Mechanical and Environmental Characteristics

Items	Unit	Specifications
Tensionλ Long Termλ	N	200
Tensionλ Short Termλ	N	400
Crushλ Long Termλ	N/10cm	500
Crushλ Short Termλ	N/10cm	1000
Environmental protection	/	ROHS
Installation temperature	/	-20+60
Operation temperature	/	-40+80
Storage temperature	/	-40+80

Cable Print:
OPTICAL CABLE GYFJH – 2 A1a IEC60332-3-24 cat.c YYYY/MM/DD# LSZH ***** M

1.25Gb/s SFP Optical Transceiver with DDMI(OP-MP413L1SD-40)

Hot Pluggable, Duplex LC, +3.3V
1310nm, DFB, Single-Mode

Features:

- ★ Compliant with Specifications for IEEE802.3Z
- ★ Multi-Source Package with Duplex LC Connector
- ★ Eye Safety Designed to Meet Laser Class1, Compliant with IEC60825
- ★ Up to 1.25Gb/s Data Links
- ★ Single+3.3V Power Supply
- ★ Hot-Pluggable
- ★ Monitoring Interface Compliant with SFF-8472
- ★ Compliant with Bellcore TA-NWT-000983
- ★ RoHS Compliant Products Available

Applications:

- ★ Gigabit Ethernet
- ★ 1xFiber Channel
- ★ Switch to Switch Interface
- ★ Switched Backplane Applications
- ★ Router/Server Interface
- ★ Other Optical Links

Specification:

Electrical and Optical Characteristics: (Condition: $T_a = T_{op}$)

Parameter	Symbol	Min.	Typical	Max.	Unit
Transmitter Differential Input volt	+/-TX_DAT	200		2400	mVp-p
Supply Current	I _{CC}		130	180	mA
Tx_Disable Input voltage-Low	V _{IL}	0		0.8	V
Tx_Disable Input voltage-High	V _{IH}	2.0		V _{CC}	V
Tx_Fault Output voltage-Low	V _{OL}	0		0.8	V
Tx_Fault Output voltage-High	V _{OH}	2.0		V _{CC}	V
Receiver Differential Output volt	+/-RX_DAT	600		1400	mVp-p
Rx_LOS Output voltage-Low	V _{OL}	0		0.8	V
Rx_LOS Output voltage-High	V _{OH}	2.0		V _{CC}	V

Transmitter

Parameter	Symbol	Min.	Typical	Max.	Unit
Data Rate	B	-	1250	-	Mb/s
Centre Wavelength	λ_c	1296	1310	1330	nm
Output Spectral Width	$\Delta\lambda$	-	-	1	nm
Average Output Power	P _o	-3	-	+2	dBm
Extinction Ratio	E.R.	10	-	-	dB



1u/2u/3u/4u Angled Patch Panels

Conspectus

Ensures professional cable management and limits the risk of health problems due to laser contact to eyes. Side facing fiber position for high laser safety.

Summary

- 1U,2U,3U,4U versions (12, 24, 36 and 48 port capacity)
- Confirms 19" or ETSI
- Professional and advanced cable management with 45 degree adaptor interface
- Angled adaptor interface protects your eyes from undesired contact with laser beam coming from the adaptors-Laser safety!
- Quick-stud system ensures easy closing /opening of the front cover
- Easy access with telescopic rail pull-out system
- Special protection tubes and bend radien for protecting the incoming fiber from bending and guiding the fibers to the special designed splice cassettes in a professional way
- Special splice cassettes of 12 or 24 port capacity with professional cable storage and protection
- 100% Compatible to Bellcore GR-326 standards
- Confirms to every type of connectors (ST, SC, FC, LC, MTRJ, E2000, etc.)

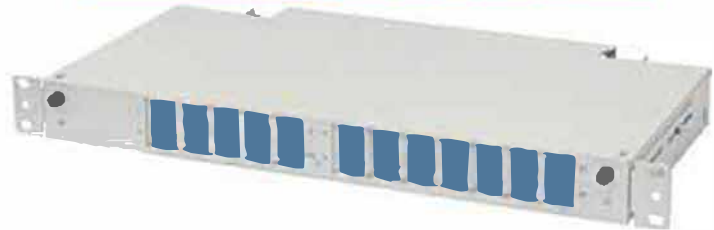
Technical Details

Dimensions	1U: 465 mm (W) x 238 mm (D) x 44.45 mm (H) 2U: 465 mm (W) x 238 mm (D) x 88,15 mm (H)
Material	Mild Steel
Color	Powder coat RAL7035 or RAL9005
Weight	6 kg (2U), 4 kg (1U)

Applications

FTTX applications, Datacenter and LAN & WAN projects.

1U ANGLED PATCH PANEL



2U ANGLED PATCH PANEL



4U 96 PORT ANGLED PATCH PANEL



Malzeme	Onay Kodu	Marka / Model
12FO 19" Terminasyon Seti (Full Dolu)	TKS-FOM-1631052016007	OJC12PORTACILIAPC
24FO 19" Terminasyon Seti (Full Dolu)	TKS-FOM-1731052016007	OJC24PORTACILIAPC
48FO 19" Terminasyon Seti (Full Dolu)	TKS-FOM-1831052016007	OJC48PORTACILIAPC
96FO 19" Terminasyon Seti (Full Dolu)	TKS-FOM-1931052016007	OJC96PORTACILIAPC

1u 19" Kızaklı Tip PatchPanel

Ensures professional cable management and ease of fiber termination

Kablo bağlantıları için gerekli klips bağlantı çıkıntıları formları mevcuttur.

1U, 19" rack montajına uygun

Sürgülü – kızaklı tip

Montaj bağlantılı plakaları derinlik ayarlı

Splice kaset bağlantısı için merkezde kaynaklı civata

Standart renk 9005 siyahtır.

Ayrıca RAL 7035 açık gri renkte üretilebilir.

1u 19" 12 SC DX



1u 19" 12 SC SX



1u 19" 24 FC/ST



1u 19" 24 SC SX

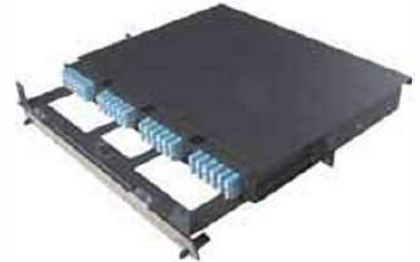


Açıklama	Ölçüler WxDxH mm
1U 19" Fiber optik sonlandırma kutuları, kapasite: 12 ad. SC duplex	482x225x44,45
1U 19" Fiber optik sonlandırma kutuları, kapasite: 12 ad. SC simplex	482x225x44,46
1U 19" Fiber optik sonlandırma kutuları, kapasite: 24 ad. SC duplex	482x225x44,47
1U 19" Fiber optik sonlandırma kutuları kapasite: 24 ad. SC simplex	482x225x44,48

1U Mpo 96Fibers Rack Mount HD Fiber

Holds up to 4*fiber plates or 4*HD cassettes

- Maximum capacity: 96 fiber
- Available for 4*HD fiberplates or 4*HD cassette
- Top cover removable design
- Compliant: TIA/EIA-568-C.
- Dimension: 482*350*44m



HD 12Ports 24Fibers Fiber Optic Cassette

Designe for 10G/40G ethernet and Data Center

- Maximum capacity: 24 fiber
- Suitable for singlemode and multimode
- Compliant: TIA/EIA-568-C.
- Dimension: 109*118*35m



LGX 12Ports 24Fibers Fiber Optic Cassette

Designed for 10G/40G ethernet and Data Center

- Maximum capacity: 24 fibers
- Available for 2*MTP/MPO to 12*LC duplex fiber patch cord
- Suitable for singlemode and multimode
- Compliant: TIA/EIA-568-C.
- Dimension: 130*128*30m



Patch Panel Swing type

Overview

Ensures professional cable management and ease of fiber termination with front cable manager for patchcords

Highlights

- ✓ 1U version 24 ports capacity (up to 30 ports)
- ✓ Swing Out system with front cable management for patchcords
- ✓ Manages small & large quantities of fiber with a high packing density
- ✓ Cable glands to secure the incoming fiber, allows min movement
- ✓ Fiber guide tubes to protect and direct the fibers to the cassettes in a professional way
- ✓ Minimum bend radius of fibers and strain relief for all entry cables
- ✓ Fiber bend radius control - < 35mm
- ✓ All known connector types such as SC, FC, ST, E2000, LC, MU etc. are possible.

Density Information

1U 24 ports Module: 24 pieces SC/LC/FC/ST/E200/DIN/MU-PC/APC etc. simplex adapters and 24 pieces 1.5 m SC/LC/FC/ST/E200/DIN/MU-PC/APC simplex pigtail (confirms G652, G652D standards)

Technical Details

Dimensions Compliance

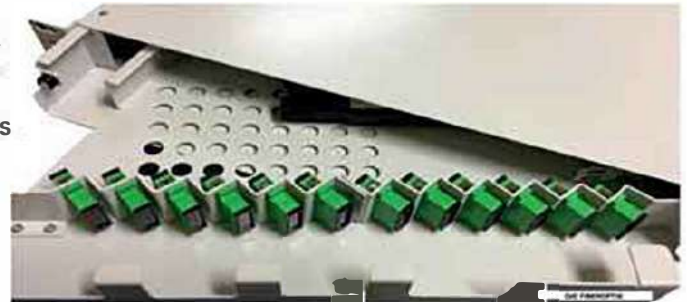
430 mm (W) x 280 mm (D) x 1U (H)
GR-449-core of Telcordia Specification

Finish Weight Material

Powder coat RAL7032
1U : 2.1 kg, 2U : 2.8 kg
Aluminum

Applications

Fiber Transmission Networks in Telco's Central applications, Fiber exchange systems, Utility Networks



1u 24 port

2u 72 port



Splice Closures

OJC Dome Type

Fiber Optic Splice Closure

Material: Polyamide

Dimension (hxd): 435mm x 190mm

Net weight: 1,5 kg

Capacity: 12/24/36/48 fibers

Total 4 inlet/outlet ports

Diameter of 3 ports is 16mm

Diameter of oval port is 25mm (can also accommodate 2 pcs. of fiber cable with max. diameter of 21mm)

All installation accessories are included, good sealed performance.

Other available accessories:

Earthing deriving device

Buffer tube for bunchy fiber

Pressure testing valve

Branching clip

Heat shrinkable fixing sleeve

Metal hoop

Quick installation type, easy to install and maintain.

Widely used for aerial and underground.



Duvar Tipi Polikarbonat Fiber Sonlandırma kutusu

Genel özellikler

FTTX uygulamalarında bina dışı ve direk montajları için, zorlu hava şartlarına dayanıklı şekilde tasarlanmıştır.

Öne Çıkan Özellikleri

IP55 seviyesine koruma

UV dayanıklı polikarbonat yapı

Kapasitesi

sc 4 port lc 8 port

Bellcore GR-326 standartlarına %100 uyumluluk

LC dubleks ve SC simpleks tipi adaptörlerle uyumluluk

Ek koruyucuları fiber kablo toplayıcıları ve duvara montaj aksesuarları dahil

Teknik Özellikler Ebatlar

Malzeme

207 x 152 x51.7mm

Renk

Polikarbonat

Ağırlık

RAL 7035 0,34 kg / Boş (4 ports)

Uygulama Alanları

FTTX uygulamaları,



Specification

Model	Cable Port	Adaptors	PLC splitter	Protection Class
OJC4PTR	2 cable ports (for cables with max diameter 12mm)	4 SC adaptors	1x4 splitter	IP55

Outdoor Wall & Pole Mountable Distribution Boxes

Duvar Tipi Polikarbonat Fiber Sonlandırma kutusu

Genel Bakış

FTTX uygulamalarında bina dışı ve direk montajları için, zorlu hava şartlarına dayanıklı şekilde tasarlanmıştır.

Öne Çıkan Özellikleri

IP55 seviyesine koruma
UV dayanıklı polikarbonat yapı
4 port kapasitesi
Özel koruma tüpleri ve bükülme koruyucuları gelen fiberi fazla bükülmekten korur ve fiberi profesyonel bir şekilde özel tasarım ek (splice) kasetlerine yönlendirir
Bellcore GR-326 standartlarına %100 uyumluluk
LC dubleks ve SC simpleks tipi adaptörlerle uyumluluk

Teknik Özellikler Ebatlar

207 x 152 x 51.7mm

Malzeme Renk Ağırlık

Polikarbonat

Elektrostatik Toz Boya RAL 7035

0.34 kg / Boş (4 ports)

Uygulama Alanları

FTTX uygulamaları,



Specification

Model	Cable Port	Adaptors	PLC splitter	Protection Class
OJC8PTR	2 cable ports (for cables with max diameter 12mm)	8 SC adaptors	1x8 splitter	IP65

Outdoor Wall & Pole Mountable Distribution Boxes

Duvar Tipi Polikarbonat Fiber Sonlandırma kutusu

Genel Bakış

FTTX uygulamalarında bina dışı ve direk montajları için, zorlu hava şartlarına dayanıklı şekilde tasarlanmıştır.

Öne Çıkan Özellikleri

IP55 seviyesine koruma
UV dayanıklı polikarbonat yapı
4 port kapasitesi
Özel koruma tüpleri ve bükülme koruyucuları gelen fiberi fazla bükülmekten korur ve fiberi profesyonel bir şekilde özel tasarım ek (splice) kasetlerine yönlendirir
Bellcore GR-326 standartlarına %100 uyumluluk
LC dubleks ve SC simpleks tipi adaptörlerle uyumluluk

Teknik Özellikler Ebatlar

207 x 152 x 51.7mm

Malzeme

Polikarbonat

Renk

Elektrostatik Toz Boya RAL 7035

Ağırlık

0,34 kg / Boş (4 ports)

Uygulama Alanları

FTTX uygulamaları,

Specification



Specification

Model	Cable Port	Adaptors	PLC splitter	Protection Class
OJC4PTR	2 cable ports (for cables with max diameter 12mm)	4 SC adaptors	1x4 splitter	IP55

Indoor Wall Mountable Distribution Boxes

İç Mekan Fiber Dağıtım Kutusu
OJC KOD:2PORTMTKJ

2 port fiber kutu polikarbonat

Genel: Indoor (bina içi) olan kutu iletişim odalarında,bina girişıuygulama alanlarında,güvenli bir çözümdür, fiber kutu serviz sağlayıcı ile son kullanıcı arasında son derece güvenilir ve fiziksel koruma sağlar

Özellikleri

- Ebatı küçük olduğundan kurulumda çok az yer işgal etmesi
- Sağlam hafif olması
- Duvara montaj için montaj delikleri
- Ürün içinde 2 splice yapılma imkanı
- SC/LC fiber tiplerini kullanabilme özelliği
- Üst kapağı tırnaklı yapı olmasından kapağın kolay sökülüyor olabilmesi



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www.upcom.com.tr



PATCH PANEL

EMPTY PATCH PANEL



Product Description

- | | |
|--|---|
| 1. 24 Port Empty Patch Panel | 4.Suitable for keystone modules |
| 2.Operation temperature:-40°C to 60°C, Relative humidity:85%(30°C), Air pressure:70-106Kpa | 5. black, RAL 9005 |
| 3.19"/1RU patch panel with cable management | 6. Housing material : ABS or , UL94-V0 or UL94-V2 |
| | 7.Labelling fields:1-2 with dust cover |

Features

- | | |
|---|---|
| 1.Front Panel: 1.5mm thickness metal panel(SPCC), painting on surface | 3.Support Bar:Cold Rolling |
| 2.Metallic Frame: 1.5mm thickness | 4.Fit the keystone jack |
| | 5.High reliability and superior performance |

PATCH PANEL

EMPTY PATCH PANEL



Product Description

- | | |
|--|---|
| 1. 24 Port Empty Patch Panel | 4.Suitable for keystone modules |
| 2.Operation temperature:-40°C to 60°C, Relative humidity:85%(30°C), Air pressure:70-106Kpa | 5. black, RAL 9005 |
| 3.19"/1RU patch panel with cable management | 6. Housing material : ABS or , UL94-V0 or UL94-V2 |
| | 7.Labelling fields:1-2 with dust cover |

Features

- | | |
|---|---|
| 1.Front Panel: 1.5mm thickness metal panel(SPCC), painting on surface | 3.Support Bar:Cold Rolling |
| 2.Metallic Frame: 1.5mm thickness | 4.Fit the keystone jack |
| | 5.High reliability and superior performance |

PATCH PANEL

Cat6 UTP 24 Port PATCH PANEL with shutter



Product Description

- | | |
|--|---|
| 1.Complete metalation and reed construction | 4Suitable for 22AWG/23AWG/24AWG/26AWG solid wires |
| 2.Operation temperature:-40°C to 60°C. Relative humidity:85%(30°C). Air pressure:70-106Kpa | 5.black, RAL 9005 |
| 3,19"/1RU patch panel incl. | 6Printing:white |
| | 7Labelling fields:1-24 |

Features

- | | |
|--|---|
| 1.Front Panel: 1.5mm thickmness metal panel(SPCC), painling on surface | 7.IDC contact material: phosphor brone with lin plating over nickel |
| 2Metallic Frame: 1.5mm thickness | 8.contact material: phosphor brone with gold plating over nickel |
| 3.Housing material: ABS or PC, UL94-V0 or UL94-V2 | 9.Punching duration: ≥ 250 times |
| 4.Meet or exceed the current T568A and T568B standard | 10.Inserting duration: ≥ 750 times |
| 5.Termination: Dual IDC, 110 IDC | 11.Dielectric withstand voltage: 1000V AC RMS, 60Hz 1min |
| 6.Panel frame: black or Ivory electrostatic powder-coated steel | 12.Insulation Resistance: 500M-ohm |
| | 13.High reliability and superior performance |

PATCH PANEL

1U Cat6 UTP 48 Port PATCH PANEL



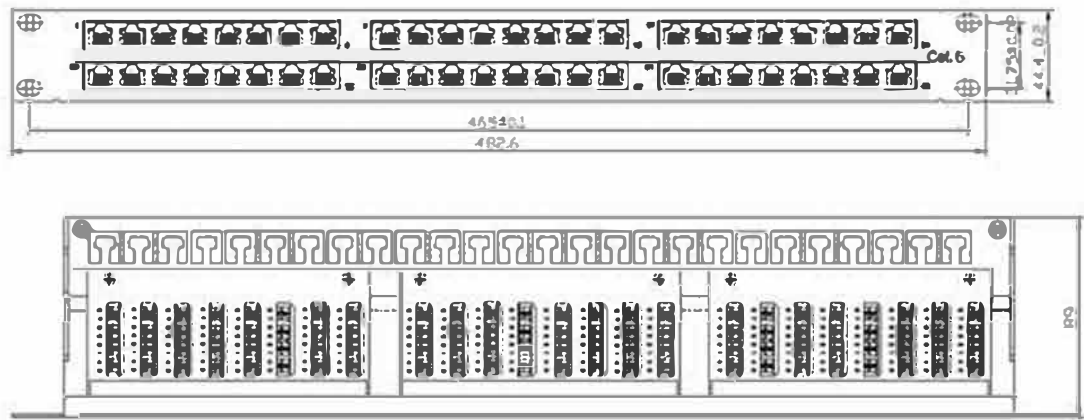
Product Description

- | | |
|--|--|
| 1.Cat6 UTP 48 Port PATCH PANEL | 4.Suitable for 22AWG/23AWG/24AWG/26AWG solid wires |
| 2.Operation temperature:-40°C to 60°C, Relative humidity:85%(30°C), Air pressure:70-106Kpa | 5. black, RAL 9005 |
| 3.19"/1RU patch panel incl. | 6.Printing:white number code |
| | 7.Labelling fields:1-24 |

Features

- | | |
|---|--|
| 1.Front Panel: 1.5mm thickness metal panel(SPCC), painting on surface | 7. IDC contact material: phosphor brone with tin plating over nickel |
| 2.Metallic Frame: 1.5mm thickness | 8. contact material: phosphor brone with gold plating over nickel |
| 3. Housing material: ABS or PC, UL94-V0 or UL94-V2 | 9. Punching duration: ≥ 250 times |
| 4. Meet or exceed the current T568A and T568B standard | 10. Inserting duration: ≥ 750 times |
| 5. Termination: Krone IDC | 11. Dielectric withstand voltage: 1000V AC RMS, 60Hz 1min |
| 6. Panel frame: black or Ivory electrostatic powder-coated steel | 12. Insulation Resistance: 500M-ohm |
| | 13.High reliability and superior performance |

Dimensions



KEYSTONE JACK

CAT6 UTP KEYSTONE JACK



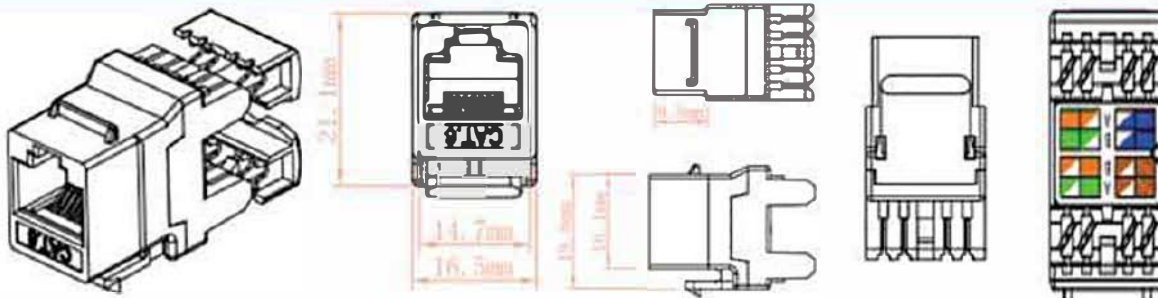
Product Description

1. Category 6 jacks, unshielded, de-embedded, reusable
2. For connection of cat.5, cat.5e and cat6 data cables, over all screen connection with strain relief
3. Operation temperature: -40°C to 60°C. Relative humidity: 85% (30°C). Air pressure: 70-106Kpa
4. Intensity of anti-current: DC 1,000V (AV, 700V), no puncture and flash-over phenomenon in one minute
5. For installation in wall outlets and panels
6. Intermediate resistance: no less than 1,000M ohm in normal atmosphere pressure (not include bulk resistor)
7. Insulated resistance: no less than 1,000M ohm in normal atmosphere pressure
8. Certified category 6 (ISO11801 PL CLASS E 15M)

Features

1. Modular Housing and Cover: PC
2. RJ45 Jack Insert: Housing: Fireproof PBT UL-94V0
Contact: 8P8C Beryllium bronze with 3 to 50u" gold plated
3. PCB: FR-4/1.6 mm UL-94V0
4. IDC: Body: Fireproof PC/ABS UL-94V0
Pin: Phosphor bronze & Tinned
5. Label Color Code: T568A/B
6. IDC Terminal: For 22-28AWG Cable

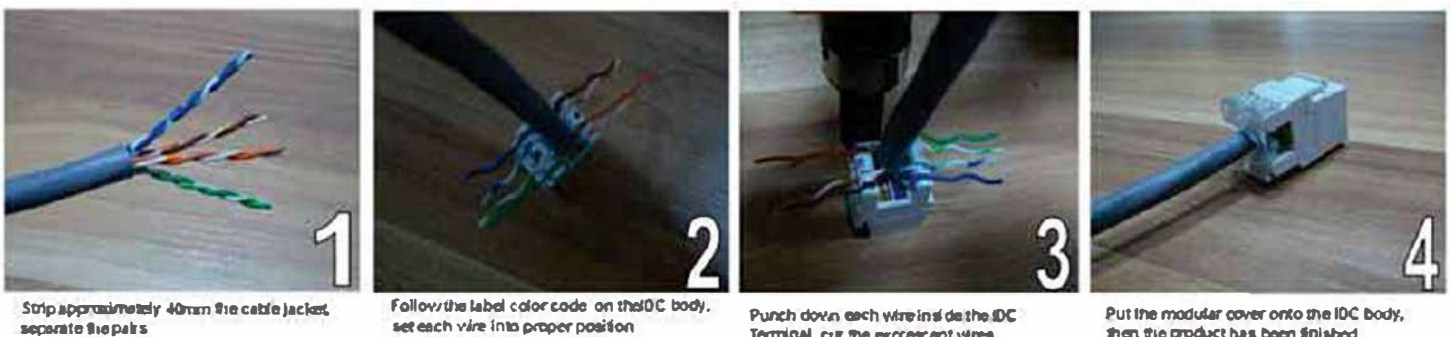
Dimensions



KEYSTONE JACK

CAT6 UTP KEYSTONE JACK

Installment Instructions



KEYSTONE JACK

CAT6 UTP KEYSTONE JACK



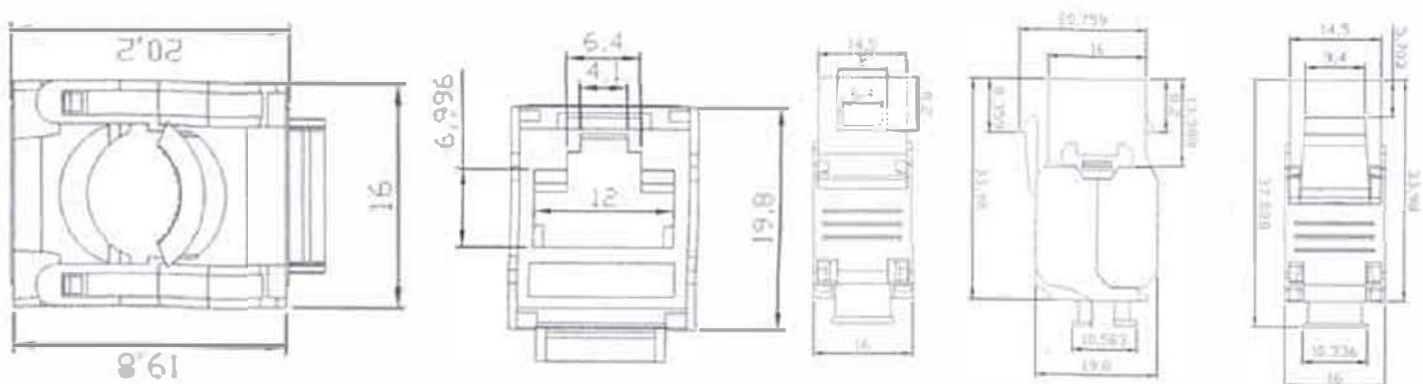
Product Description

- 1.Category 6 jacks, unshielded, de-embedded, reusable
- 2.For connection of cat6 and cat7 data cables, over all screen connection with strain relief
- 3.Operation temperature: -40°C to 60°C, Relative humidity: 85%(30°C), Air pressure: 70-106Kpa
- 4.Intensity of anti-current: DC 1,000V(AV, 700V), no puncture and flash-over phenomenon in one minute
- 5.For installation in wall outlets and panels
6. Intermediate resistance: no less than 1,000M ohm in normal atmosphere pressure (not include bulk resistor)
7. Insulated resistance: no less than 1,000M ohm in normal atmosphere pressure
8. Certified category 6a (ISO11801 PL2 CLASS Ea 15M)

Features

1. Modular Housing and Cover: PC
2. RJ45 Jack Insert: Housing-Fireproof PBT UL-94V0
Contact-8P8C Beryllium bronze with 3 to 50u" gold plated
3. PCB: FR-4/1.6 mm UL-94V0
4. IDC: Body-Fireproof PC/ABS UL-94V0
Pin-Phosphor bronze & Tinned
5. Label Color Code: T568A/B
6. IDC Terminal: For 22-26AWG Cable

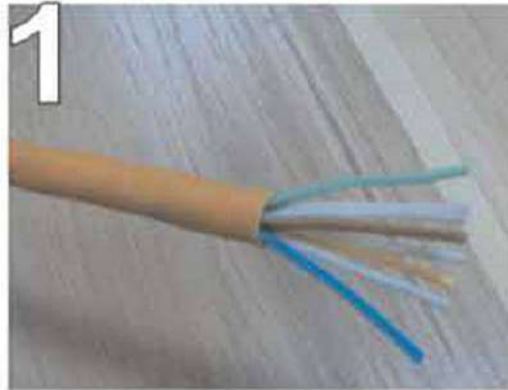
Dimensions



KEYSTONE JACK

CAT6 UTP KEYSTONE JACK

Installment Instructions



Strip approximately 40mm the cable jacket, fold back the foil and the braid shield



Follow the label color on the modular cover, set each wire into proper position, ensure the ground wire connect properly



Finish the assembly by hand



Set the modular cover to the module, and cut the wire with scissors to flat



Finished products

KEYSTONE JACK

CAT6A FTP KEYSTONE JACK



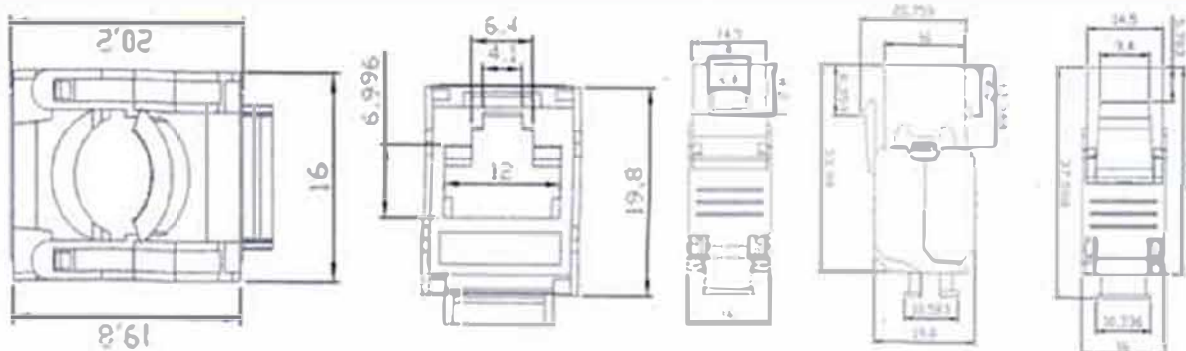
Product Description

- | | |
|---|---|
| 1.Category 6a jack,shielded,de-embedded,residual | 5.For installation in wall outlets and panels |
| 2.For connection of cat6 and cat7 data cables,over all screen connection with strain relief | 6. Intermediate resistance:no less than 1,000M ohm in normal atmosphere pressure(not include bulk resistor) |
| 3.Operation temperature:-40°C to 60°C, Relative humidity:85%(30°C), Air pressure:70-106Kpa | 7.insulated resistance:no less than 1,000M ohm in normal atmosphere pressure |
| 4.Intensity of anti-current:DC 1,000V(AV,700V), no puncture and flash-over phenomenon in one minute | 8.Certified category 6a (ISO11801 Pl.2 CLASS Ea 15M) |

Features

- | | |
|--|---|
| 1. Jack: Full shielded metal housing, toolless mounting, reusable | 4. PCB: FR-4/1.6 mm UL-94V0 |
| 2. Modular Housing and Cover: Al & Zn with Ni plated | 5. IDC: Body-Fireproof PC/ABS UL-94V0
Pin-Phosphor bronze 8 Tinned |
| 3. RJ45 Jack Insert: Housing-Fireproof PBT UL-94V0
Contact-8P8C with 3-50u" gold plated | 6. Label Color Code: T568A/B
7. IDC Terminal: For 22-26AWG Cable |

Dimensions



KEYSTONE JACK

CAT6A FTP KEYSTONE JACK

Installment Instructions



Strip approximately 40mm the cable jacket, fold back the foil and the braid shield



Follow the label color on the modular cover, set each wire into proper position, ensure the ground wire connect properly



Set the modular cover to the module, and cut the wire with scissors to flat



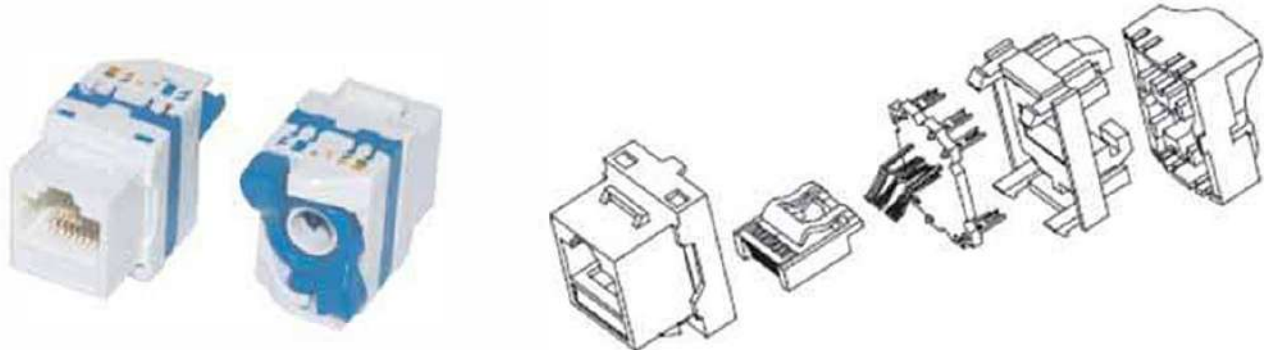
Finish the assembly by hand, and cut the excess wires



Finished products

KEYSTONE JACK

CAT6 UTP TOOLLESS KEYSTONE JACK



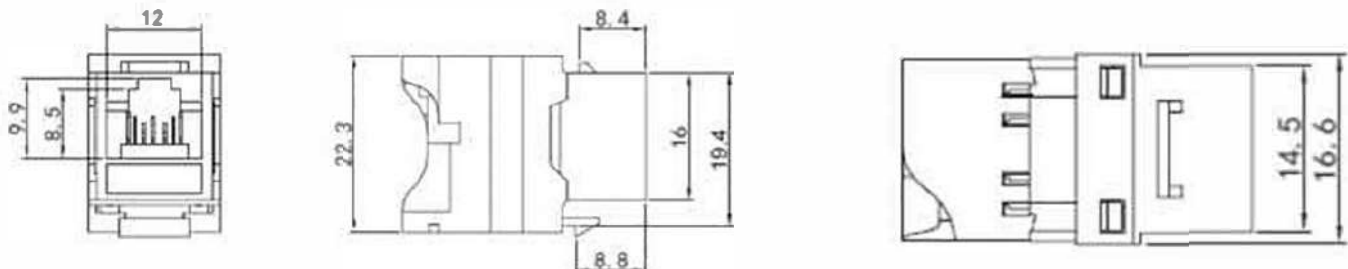
Product Description

1. Cat6 UTP Toolless 180 degree Keystone jacks
2. For connection of cat6 and cat7 data cables, over all screen connection with strain relief
3. Operation temperature: -10°C to 60°C, Relative humidity: 85% (30°C), Air pressure: 70-106Kpa
4. Storage temperature: -40°C to 70°C
5. Intensity of anti-current: DC 1,000V (AV, 700V), no puncture and flash-over phenomenon in one minute
6. For installation in wall outlets and panels
7. Intermediate resistance: no less than 1,000M ohm in normal atmosphere pressure (not include bulk resistor)
8. Insulated resistance: no less than 1,000M ohm in normal atmosphere pressure
8. Compliant with EIA/TIA specifications
9. IDN life: ≥ 250 Times
10. RJ45 contacts ≥ 750 Times

Features

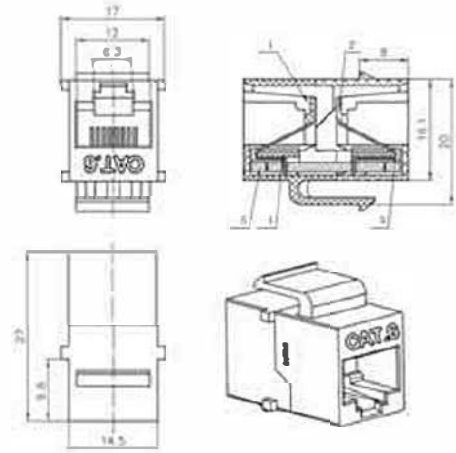
1. Modular Housing and Cover: PC
2. RJ45 Jack Insert: Housing-Fireproof PBT UL-94V0
Contact-8P8C Beryllium bronze with 3 to 50u" gold plated
3. PCB: FR-4/1.6 mm UL-94V0
4. IDC: Body-Fireproof PC/ABS UL-94V0
Pin-Phosphor bronze & Tinned
5. Dual color-coded label for both T568A/T568B
6. IDC Terminal: For 22-26AWG Cable

Dimensions



KEYSTONE JACK

CAT6 UTP RJ45-RJ45 Coupler



Product Description

- 1.Category 6 Coupler , unshielded, de-embedded, reusable
- 2.For connection of cat.5, cat.5e and cat6 data cables, over all screen connection with strain relief
- 3.Operation temperature: -40°C to 60°C, Relative humidity: 85%(30°C), Air pressure: 70-106Kpa
- 4.Intensity of anti-current: DC 1,000V(AV, 700V), no puncture and flash-over phenomenon in one minute
- 5 For installation in wall outlets and panels
6. Intermediate resistance: no less than 1,000M ohm in normal atmosphere pressure (not include bulk resistor)
7. Insulated resistance: no less than 1,000M ohm in normal atmosphere pressure
8. Certified category 6 (ISO11801 PL CLASS E 15M)

Features

1. Modular Housing and Cover: PC
2. RJ45 Jack Insert: Housing-Fireproof PBT UL-94V0
Contact-8P8C Beryllium bronze with 3 to 50u" gold plated
3. PCB: FR-4/1.6 mm UL-94V0
4. IDC Body-Fireproof PC/ABS UL-94V0
Pin-Phosphor bronze & Tinned
5. Label Color Code: T568A/B
6. IDC Terminal: For 22-26AWG Cable

KEYSTONE JACK

CAT6 UTP KEYSTONE JACK



Product Description

- 1.Category 6 jacks, unshielded, de-embedded, reusable
- 2.For connection of Cat.5e and Cat6 data cables, over all screen connection with strain relief
- 3.Operation temperature:-40°C to 60°C, Relative humidity:85%(30°C), Air pressure:70-106Kpa
- 4.Intensity of anti-current:DC 1,000V(AV,700V), no puncture and flash-over phenomenon in one minute
- 5.For installation in wall outlets and panels
6. Intermediate resistance: no less than 1,000M ohm in normal atmosphere pressure(not include bulk resistor)
7. Insulated resistance: no less than 1,000M ohm in normal atmosphere pressure
- 8.Certified category 6 (ISO11801 PL CLASS E 15M)

Features

- 1.Modular Housing and Cover:PC
- 2.RJ45 Jack Insert:Housing-Fireproof PBT UL-94V0
- 3.PCB:FR-4/1.6 mm UL-94V0
- 4.IDC:Body-Fireproof PC/ABS UL-94V0
Pin-Phosphor bronze&Tinned
- 5.Label Color Code:T568A/B
- 6.IDC Terminal:For 22-26AWG Cable

KEYSTONE JACK

CAT3 UTP KEYSTONE JACK



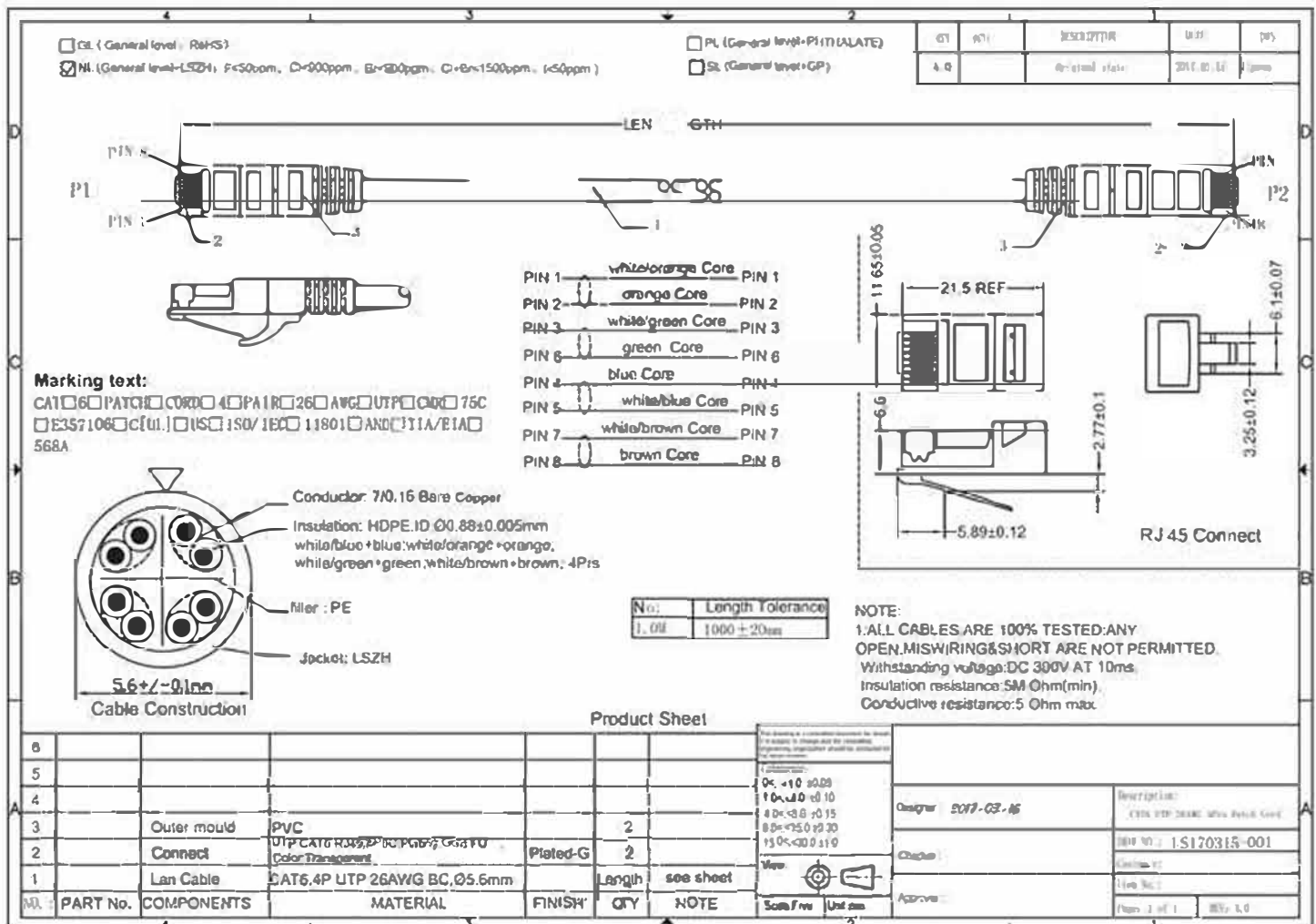
Product Description

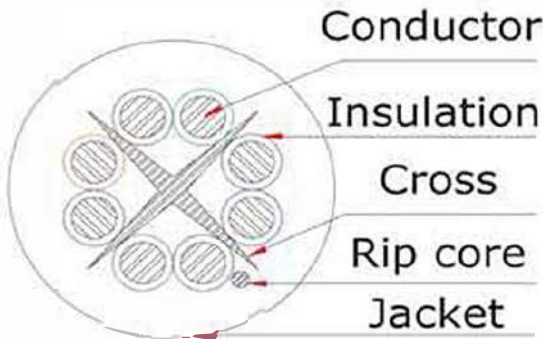
1. Category 3 jacks, unshielded, de-embedded, reusable
2. For connection of cat3 data cables, over all screen connection with strain relief
3. Operation temperature: -40°C to 60°C, Relative humidity: 85% (30°C), Air pressure: 70-106 Kpa
4. Intensity of anti-current: DC 1,000V (AV, 700V), no puncture and flash-over phenomenon in one minute
5. For installation in wall outlets and panels
6. Intermediate resistance: no less than 1,000M ohm in normal atmosphere pressure (not include bulk resistor)
7. Insulated resistance: no less than 1,000M ohm in normal atmosphere pressure
8. Certified category 3

Features

1. Modular Housing and Cover: PC
2. RJ11 RJ12 Jack Insert: Housing-Fireproof PBT UL-94V0
Contact-6P4C Beryllium bronze with 3 to 50u" gold plated
3. PCB: FR-4/1.6 mm UL-94V0
4. IDC: Body-Fireproof PC/ABS UL-94V0
Pin-Phosphor bronze & Tinned
5. Label Color Code: T568A/B
6. IDC Terminal: For 22-26AWG Cable

CAT6 UTP PATCH CORD





- Color cord**
- 1.Blue-White/Blue
 - 2.Orange-White/Orange
 - 3.Green-White/Green
 - 4.Brown-White/Brown

ITEM			UTP CAT6		
No. of Cord.			4 Pairs		
Conductor	Material		Bare copper Solid		
	Construction		23AWG; 1 / 0.55		
Insulation	Material		HDPE		
	Thickness		0.23±0.02 mm		
	Diameter		1.05± 0.05 mm		
Inner Layer	Direction		S		
	Pitch	REF	30mm underneath		
Outside Layer	Direction		S		
	Pitch	REF	90±5mm		
Cross	Material		Polyethy lene		
	Construction		4.4mm*4.4mm		
Rip cord	Material		Nylon		
	Material		LSZH		
	Diameter		6.2±0.20 mm		
	Color	White	(WH003)		
Marking	UPCDM Category 6 U/UTP 23AWG/4PRS LSZH VERIFIED TO EIA/TIA 568B & ISO/IEC 11801 XXX METER				
ELECTRICAL PROPERTIES					
ITEM					
Insulation Resistance			Min. 5000 mega ohms-km at 20°C		
Dielectric Test			1000V DC /1 min ; No Breakdown		
Temperature Rating			60°C		
Voltage Rating			30V		
DRWN.	Zipzou	SPEC NO:		Construction: 1/0.55BC× 4P+PE CORSS+R+6.2 LSZH	
CHKD.		LS170517-001		Customer:	
APPD.		DATE:2017.05.17			

Surface Mount Box

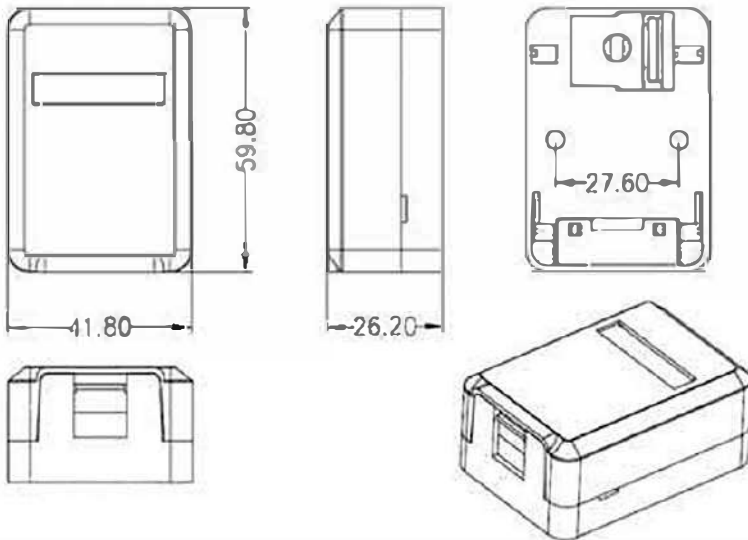
1 Port Empty Surface Mount Box



Product Description

1 Port Empty Surface Mount Box
Housing Material: PC-UL94V-0
Base Material: ABS UL94V-0
Dust Cover Material: ABS UL94V-0
Burr: 0.05mm MAX

Dimensions



Surface Mount Box

2 Port Empty Surface Mount Box



Product Description

2 Port Empty Surface Mount Box

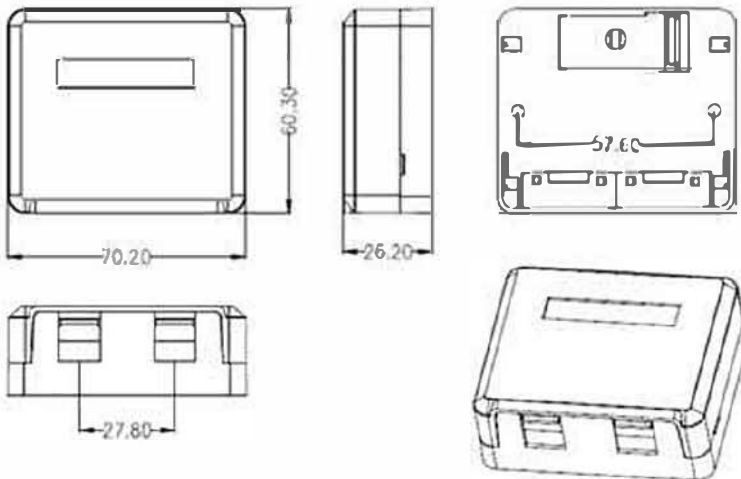
Housing Material: PC-UL94V-0

Base Material: ABS UL94V-0

Dust Cover Material: ABS UL94V-0

Burr: 0.05mm MAX

Dimensions



UPCOM

PRODUCT CATALOGUE



UPCOM

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