

DATA CENTER SOLUTIONS





Data Centre Structured Cabling Solutions

With the exponential growth, reliability and scalability data center needed to be designed, implemented and maintained as they have become a critical part of any organization. Within the increase in technologies such as AI, VR, IoT and even plant automation are the key drivers that are evolving Data Centre today.

High-density data center cabling solution can simplify deployment, provide reliable operation, and realize flexible expansion and quick upgrade with the ever-increasing business traffic requirements to adapt to changing market needs.

Today, they house numerous devices which address variety of application which define the type of Data center such as Process Based, Hosting Website, Hyperscale / Cloud Based, Maintain your financial records, Multitenant or even to route e-mails

Therefore with the Type, one needs to keep in mind in their design

- * Whether the Data Centre is Scalability
- * Is the Data Centre Flexibility and Manageable
- ★ The Uptime or Availability of the Data Centre

Advantages

Stable Transmission

- * 40G and 100G Ethernet applications.
- * High bandwidth and low latency.
- * High performance and high density MTP®/MPO solutions.

Scalability for Upgrades

- * High density solution for optimizing space.
- * More powerful compatibility, network upgrade without replacing the backbone cabling.
- * Flexible solution for easy replacement.

Efficient Maintenance

- * Modular cabling is designed for simple deployment and reliable operation.
- * Reducing the cost and performance risk of changing or increasing product





Fiber Cabling Solutions

Indoor Cable

Indoor cable designed for indoor use, primarily in datacenter or buildings where fiber optic connections are required. These cables can use different types of optical fibers, including single-mode (SM) and multi-mode (MM) fibers. The choice of fiber type depends on factors like the required data transmission distance and bandwidth.

Indoor cables usually have a tight buffer design. This means that each individual optical fiber is protected by its own buffer material, which provides additional mechanical and environmental protection.

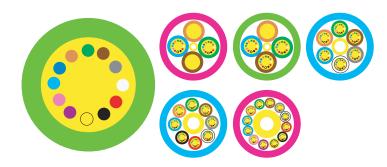
Indoor cable typically has a PVC (Polyvinyl Chloride) or LSZH (Low Smoke Zero Halogen) jacket, which provides protection to the optical fibers inside and determines its fire safety characteristics. LSZH jackets are preferred in areas where smoke and toxic fumes need to be minimized in case of a fire.

Features

- Conformance to ANSI/TIA-568.3-D, Telcordia GR-20, IEC 60794-2 Flame retardant LSZH jacket
- Fiber count Upto 288F
- Fiber Color: blue/orange/green/brown/grey/ white/red/black/yellow/purple/pink/aqua
- · Aramid yarn for round strength
- Out jacket: LSZH
- Temperature range ⁰20 ⁰70 C

Application

- · Indoor applications,
- Data centers,
- Local area networks (LANs),
- · Campus networks,
- Telecommunications installations within buildings.



Technical Specification

Multi Mode

| ITEM | UNIT | SPECIFICATION | |
|--|---|--|--|
| Attenuation | dB/km | 850 nm≤3.5 1300 nm≤1.5 | |
| Bandwidth | MHz·km | 50/125um | |
| | | 850 nm≥200 850 nm≥160 1300 nm≥200 1300 nm≥200 | |
| Core diameter | um | 50±2.5 | |
| Cladding diameter | um | 125±1.0 | |
| Cladding non-circularity | % | ≤1.0 | |
| Coating/cladding concerntricity error | um | ≤12.5 | |
| Coating diameter | um | 245±10 | |
| Bending,dependence induced attenuation | 850nm,1300nm 100turns,75mm diameter | ≤0.5 at 850 nm\1300 nm | |
| Proof test | kpsi | ≥100 | |

Single Mode

| ITEM | UNIT | SPECIFICATION |
|---|---|--------------------------|
| Attenuation | dB/km | 1310nm≤0.4 1550nm≤0.3 |
| Dispersion | Ps/nm.km | 1285~1330nm≤3.5 |
| | | 1550nm≤18.0 |
| Zero dispersion wavelength | Nm | 1300~1324 |
| Zero dispersion slope | Ps/nm.km | ≤0.095 |
| Fiber cutoff wavelength | Nm | ≤1260 |
| Mode field diameter | Um | 9.2±0.5 |
| Mode field concentricity | Um | <=0.8 |
| Cladding diameter | um | 125±1.0 |
| Cladding non-circularity | % | ≤1.0 |
| Coating/cladding concentricity error | Um | ≤12.5 |
| Coating diameter | Um | 245±10 |
| Bending, dependence induced attenuation | 1turns,32mm diameter 100turns,60mm diameter | ≤0.5 db |
| Proof test | kpsi | ≥100 |



Fiber Cabling Solutions

Ribbon Fiber

Ribbon fiber is a specialized type of optical fiber designed for high-density data transmission applications. It is characterized by its flat ribbon-like structure, where multiple individual optical fibers are arranged side by side in a flat configuration. Ribbon fiber is commonly used in telecommunications, data centers, and other high-capacity networking environments.

| SPECIFI | CATION | | V | ALU | ES | |
|--------------------|--------------------------|---------------------------------------|------------|--------|---------------------|-------------------|
| FIBI | ER COUNT | 144 | 288 | 432 | 576 | |
| / | | G657A2 | G657A2 | | G657A2 | G657A2 |
| | | 12F Ribbon* 12sets | 12FRibbon* | 24sets | 24F Ribbon* 18sets | 24FRibbon* 24sets |
| | OD (mm) | 2.9-3.1 | 2.9-3.1 | | 5.9-6.2 | 5.9-6.2 |
| Ribbon fiber | Thickness (mm) | 0.29-0.31 | 0.29-0.31 | | 0.3-0.32 | 0.3-0.32 |
| | OD (mm) | 8.2 = 0.5 | 14.6 ± 0.5 | | 17.9 + 0.5 | 17.9 + 0.5 |
| | Material | LSZH | LSZH | | LSZH | LSZH |
| Inner cable | Color | | According | to the | customer requiremen | nt |
| | OD (mm) | 12.0 + 0.5 | 19.8 + 0.8 | | 24.0 ± 1.0 | 24.0 ± 1.0 |
| | Material | LSZH | LSZH | | LSZH | LSZH |
| Cable | Color | According to the customer requirement | | | nt | |
| Max.tensile | Short - term | 1350 | 2700 | | 2700 | 2700 |
| Strength (N) | Long - term | 440 | 890 | | 890 | 890 |
| Min Bending Radius | Dynamic | | | | 25D | |
| (mm) | Static | | | | 12.5D | |
| Max . Crush | Short - term | | | | 2000 | |
| Resistance (N / | Long - term | 1000 | | | | |
| Strength Members | | Water blocking glass yam | | | | |
| | | | | | | |
| Temperature range | Storage ortransportation | | | -20° (| C + 70 ° C | |

Mini Breakout Optical Cable

A Mini Breakout Optical Cable, also known as Mini Breakout Fiber Cable, is a specialized type of fiber optic cable designed for specific networking and data transmission applications. This cable is characterized by its design, which combines multiple individual fibers into a single cable with breakout legs, making it suitable for various installation scenarios.

| | Attenua | tion | | OFL bandwidth | Effective model bandwidth | 10G Ethenet | Min bend Min bend |
|-----------|-----------------------------------|--|---|--|---|---|--|
| 1310/ | 1550nm | 850/1300 |)nm | | | | |
| Typical | Maximum | Typical | Maximum | 850/1300nm | 850nm | 850nm | |
| dB/km | dB/km | dB/km | dB/km | MHZ km | MHZ km | m | mm |
| 0.36/0.22 | 04/03 | _ | | _ | _ | | 16 |
| 0.36/0.22 | 0.4/0.3 | _ | _ | - | _ | _ | 10 |
| 036/022 | 04/03 | _ | _ | _ | _ | _ | 75 |
| _ | - | 23/0.6 | 35/1.5 | ≥200/500 | | | 30 |
| | | 2.7/0.6 | 3.5/1.5 | ≥200/500 | | | 30 |
| _ | - | 2.3/0.6 | 3.5/1.5 | ≥1500/500 | ≥2000 | ≤300 | 30 |
| _ | _ | 23/0.6 | 3.5/1.5 | ≥3500/500 | ≥4700 | ≤550 | 30 |
| - | - | 23/06 | 3.5/1.5 | ≥1500/500 | ≥2000 | ≤300 | 7.5 |
| _ | _ | 23/06 | 3.5/1.5 | ≥3500/500 | ≥4700 | ≤550 | 7.5 |
| | Typical dB/km 0.36/0.22 0.36/0.22 | 1310/1550nm Typical Maximum dB/km dB/km 0.36/0.22 04/03 0.36/0.22 0.4/0.3 | Typical Maximum Typical dB/km dB/km dB/km 0.36/0.22 0.4/0.3 — 0.36/0.22 0.4/0.3 — 036/022 04/03 — - - 23/0.6 - - 2.3/0.6 - - 23/0.6 - - 23/0.6 - - 23/0.6 - - 23/0.6 - - 23/0.6 | 1310/1550nm 850/1300nm Typical Maximum Typical Maximum dB/km dB/km dB/km dB/km 0.36/0.22 04/03 036/0.22 0.4/0.3 036/0.22 0.4/0.3 036/022 04/03 023/0.6 35/1.5 | Attenuation bandwidth 1310/1550nm 850/1300nm 850/1300nm Typical Maximum 850/1300nm dB/km dB/km dB/km MHZ km 0.36/0.22 0.4/0.3 — — — 0.36/0.22 0.4/0.3 — — — 036/022 0.4/0.3 — — — — — 23/0.6 35/1.5 ≥200/500 — — 2.3/0.6 3.5/1.5 ≥200/500 — — 2.3/0.6 3.5/1.5 ≥1500/500 — — 23/0.6 3.5/1.5 ≥3500/500 — — 23/0.6 3.5/1.5 ≥1500/500 | Attenuation bandwidth model bandwidth 1310/1550nm 850/1300nm 850/1300nm 850/1300nm 850nm Typical Maximum 850/1300nm 850nm dB/km dB/km dB/km MHZ km 0.36/0.22 0.4/0.3 — — — 0.36/0.22 0.4/0.3 — — — — 0.36/0.22 0.4/0.3 — — — — 0.36/0.22 0.4/0.3 — — — — 0.36/0.22 0.4/0.3 — — — — 0.36/0.22 0.4/0.3 — — — — 0.36/0.22 0.4/0.3 — — — — — 0.36/0.22 0.4/0.3 — — — — — — 0.36/0.22 0.4/0.3 — — — — — — - — 23/0.6 35/1.5 ≥200/5 | Attenuation bandwidth model bandwidth 10G Ethenet 1310/1550nm 850/1300nm 850/1300nm 850nm 850n |



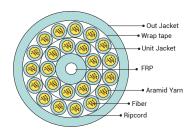


Features

- Complies to ANSI/TIA-568.3-D, ITU-T G652.D, Telcordia GR-20, IEC 60794-2 / 60794-3-10
- HDPE Outer jacket
- Water proof layer & excellent Moisture resistance provided
- Excellent consistence performance

Application

- Long-Distance Telecommunications Networks
- Data Centers
- 5G and Mobile Backhaul
- Cable Television (CATV) and Broadcast



Features

- High strength aramid yarn strength member
- Small outer diameter, lightweight, flame-retardant
- Suitable for installation, operation, and convenient for maintenance Cable Sheath

Application

- As building to building connecting cable
- As pigtails,movable connectors and patch cords for communication equipment



Patching Solutions

Pre Terminated Fiber Optic Assemblies

Pre Terminated Fiber Optic Assemblies are tight buffer design, offering 6 to 24 core fiber with ruggedized tails at both ends to protect the optical fiber in the demanding-environments outside the patch panel or ODF and allowing direct equipment to equipment connection. Each tail length can be a unique length and up to 1.5m long. The network topology can be reduced and simplified by direct connection, by passing wall boxes, ODFs or fiber patch panels, the end result is greatly improved fiber management



| PARAMETER | VALUES |
|------------------------------------|--------------------------------------|
| Fiber Count | 6F, 12F, 24F |
| Fiber Types | OS2, OM3, OM4 |
| Cable Type | Tight Buffered (Indoor) |
| Branch out types | Staggered or Fan-out |
| Connector types | SC, FC, ST, LC, MU, E2000 (UPC & APC |
| Insertion loss of each termination | Max: 0.50dB; Typ:0.30dB |
| Return loss | >50dB for UPC; >60dB for APC |
| Max Tensile load | 1500N |

Features

- 6 24 core full breakout cable with 1.6mm ruggedized pigtails
- Internal Low Smoke Zero Halo gen cable jacket
- Available with all standard connectivity
- Factory terminated and tested
- Cost Savings
- Time Optimization
- Direct Connection to Equip ment/Panel

Conformance

- ISO/IEC 11801
- TIA/EIA-568.3-D
- IEC 61300-3-4, IEC 61300-3-6
- IEC 60874-1



Patching Solutions

Fiber Optic MPO to LC Breakout Cable (40G/100G Cable)

MPO to LC Breakout cabling System is ideally suited for high density evironment that demands space saving cable density and innovative cable manage ment solutions. MPO connectors have realized multiple fiber connexions within a conventional cable, this advantage allows data center designers to deploy ten or twenty times of fiber counts in same storage. Simply install the MPO & MPO trunk cable within the building and connect to rear of a MPO Patch Panel or fan out.



| ТҮРЕ | WAVELENGTH | I.L Type | I.L Max | R.L Min |
|-----------------|---------------|----------|---------|---------|
| MPO/PC(MM) | 850nm/1300nm | 0.25dB | 0.35dB | ≥30dB |
| MPO/PC (SM) | 1310nm/1550nm | 0.25dB | 0.35dB | ≥50dB |
| LC/PC (MM) | 850nm/1300nm | 0.20dB | 0.35dB | ≥30dB |
| LC/PC (SM) | 1310nm/1550nm | 0.20dB | 0.35dB | ≥50dB |
| LC,SC,FC,ST/APC | 1310nm | ≤ 0.30 | | ≤60 |

| SPECIFICATIONS | VALUES |
|-------------------------|---------------------------|
| MPO Cable diameter | 3mm |
| Breakout Cable diameter | 2mm |
| Durability | ≥500times |
| Insert-Pull Test | 1000 times<0.5 dB |
| Interchange | <0.5 dB |
| Anti-Tensile Force | 15KgF |
| Operating Temp | -40 to +85 degree Celsius |

Features

- High precision guide pins for exact alignment
- Plug and Play
- High Density interconnect with 8F, 12F, 20F, 24F options
- Removable housing for quick change of pin clamps and easy ferrule clean ing/re-polishing.
- Single-Mode and Multi-Mode color coded housings
- Alignment achieved with high precision guide pins
- Push/Pull mating for quick assembly

Conformance

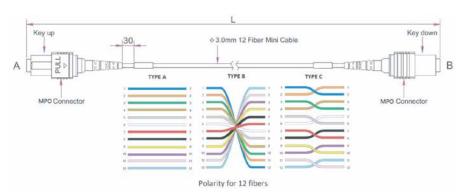
- Telecordia GR-1435 CORE
- ANSI/TIA/EIA-568.3-Dzz
- EIA/TIA-604-5
- IEC-61754-7



Patching Solutions

MPO-MPO Patch Cord (40G/100G Patch Cables)

MPO Fiber Cabling System is ideally suited for a high density environment that demands space savings and innovative cable management solutions. The MPO connector is a high performance MPO connector with multiple engineered product enhancements to improve optical and mechanical performance when compared to generic MPO connectors.



| TYPE | WAVELENGTH | IL MAX | RL Mini | |
|--------------|-------------|--------|---------|--|
| MPO/PC(MM) | 850n/1300nm | 0.60dB | 25dB | |
| MPO/APC (SM) | 1310/1550nm | 0.70dB | 50dB | |

MPO Armoured Patch Cord

MPO Fiber Cabling System is ideally suited for a high-density environment that demands space saving and innovative cable management solutions. The MPO connector is a high-performance connector with multiple engineered product enhancements to improve optical and mechanical performance. The armored Patch cords are basically a Fiber Optic Patch Cords suggested for more rugged harsh environments

| SPECIFICATION | | VALUE | |
|-------------------------------|---|---------|---------|
| Туре | Wavelength | I.L Max | R.L Min |
| MPO | 850/1300nm | | |
| Connector (MM) | | | |
| Cable Specifications | | | |
| Fiber Type | MM (OM3, OM4) | | |
| Cable structure | 0.25MM color fiber *12+Aramid Yarn+innerJacket+Stainless steel tube Aramid Yarn+OuterJacket | | |
| Stainless Steel Tube material | SUS204 | | |
| Inner Jacket | LSZH | | |
| Outer Jacket | LSZH | | |
| Jacket Color | Black | | |







Features

- · High precision guide pins for exact alignment
- Plug and Play
- High Density interconnect
- Emerging 40 and 100Gbps protocols compatible
- Single-Mode and Multi-Mode color coded housings
- Alignment achieved with high precision guide pins
- Push/Pull mating for quick as sembly

Conformance

- Telecordia GR-1435 CORE
- ANSI/TIA/EIA-568-3.D
- EIA/TIA-604-5
- IEC-61754-7



Features

- Conformance to Telcordia ANSI/ TIA-568.3-D, ANSI/TIA 604-5, IEC61754-7
- High precision guide pins for exact alignment
- Plug and Play
- High Density interconnect
- Alignment achieved with high precision guide pins
- Push/Pull mating for quick assembly



Patching Solutions

High Density Fiber Optic Patch Cords

High Density Patch Cords feature high density, small form factor LC connectors mated to 2.0 mm round duplex cable. They are used to connect switches or network devices in fiber networks directly or interconnect structured cabling systems in a fiber network

| PARAMETER | SINGLE-MODE | MULTI-MODE |
|-----------------------------|------------------------|------------|
| Insertion Loss | ≤ 0.35 dB | ≤ 0.25 dB |
| Return loss | ≥55 dB UPC/ ≥ 65dB APC | ≥ 25dB |
| Durability | 500 Mating | |
| Repeatability | < 0.20 dB | 1.50dB |
| Operating Temperature Range | -40° C to +75° C | |



Features

- True Uniboot (one boot) design push/pull tab
- Bend insensitive fiber
- 100% optical testing
- Extreme Low Loss (XL) and Low Loss (LL) performance options

High Density Traceable Patch Cord

High density traceable patch cords feature high density, small form factor LC connectors mated to 2.0 mm round duplex cable. These traceable patch cord's LED light dramatically reduces downtime by providing instant cable identification for efficient mistake resolution and maintenance. They are used to connect switches or network devices in fiber networks directly or interconnect structured cabling systems in a fiber network.

| PARAMETER | PARAMETER |
|----------------------|---------------|
| Insertion Loss | ≤0.25 dB |
| Return Loss | ≤0.25 dB |
| Durability | 500 Mating |
| Repeatability | <0.20 dB |
| Operating Temprature | -40°c to 75°C |

Features

- True Uniboot (one boot) design
- Optional push/pull tab
- Bend insensitive fiber
- Bright Traceable LED Light
- Available in OS2, OM3, OM4
- 100% optical testing
- Extreme Low Loss (XL) and Low Loss (LL) performance options

Uniboot Polarity Change Patch Cord

High density patch cords feature high density, small form factor LC connectors mated to 2.0 mm round duplex cable. They are used to connect switches or network devices in fiber networks directly or interconnect structured cabling systems in a fiber network.

| PARAMETER | PARAMETER |
|-----------------------|----------------|
| Insertion Loss | ≤ 0.35dB |
| Return Loss | ≥ 55 dB UPC/ |
| | ≥ 65dB APC |
| Durability | 500 Mating |
| | < 0.20 dB |
| Operating Temperature | -40°C to +75°C |

Features

- True Uniboot (one boot) design
- Polarity Change
- Bend insensitive fiber
- Available in OS2
- 100% optical testing
- Extreme Low Loss (XL) and Low Loss (LL) performance options



Conformance

- ITU G.657.A1, G652D
- IS0/IEC 11801
- TIA/EIA-568.3-D
- IEC 61300-3-4, IEC 61300-3-6



Patching Solutions

MPO Trunk Cables

MPO Fiber assemblies are ideally suited for a high-density environment that demands space saving cable density and innovative cable management solutions. The MPO connector is a high-performance connector with multiple engineered product enhancements to improve optical and mechanical performance. The MPO connectors offers upto 12 or 24 times the density of standard connectors, providing significant space.









| SPECIFICATION | | VALUES |
|---------------|---------|---------|
| Туре | I.L Max | R.L Min |
| MPO/PC(MM) | 0.60dB | ≥25dB |
| MPO/APC (SM) | 0.70dB | ≥50dB |

Features

- Conformance to Telcordia GR-1435 Core, ANSI/TIA568.3-D, ANSI/TIA 604-5, IEC 61754-7
- High precision guide pins for exact alignment
- Plug and Play
- High Density interconnect
- Compact design upto 48,96,144 and 288 Fibers
- Single-Mode and Multi-Mode color coded housings

MPO Loopback Patch Cord

MPO loop back cable is ideal solution for optical testing of 40GbE and 100GbE applications. Available in Single Mode and Multi mode versions.



| SPECIFICATION | VALU | ES |
|---------------|---------|---------|
| Туре | I.L Max | R.L Min |
| MPO/PC(MM) | 1.5dB | 25dB |
| MPO/APC (SM) | 1.5dB | 50dB |

Features

- Available in SM and MM
- 12 and 24 Fiber MPO Ferrule
- LSZH Jacket
- Female and Male MPO Connector
- 40GQSFP +Transceiver



Fiber Panel Solutions

Ultra High Density Panel Solutions

3C3° High Density Panel is specially designed to accommodate high density cabling in high end Data Center and Telecommunication central office environment. The shallow depth of High Density Panel makes it suitable for low depth racking systems or Telecommunication ODFs. The 1U 19″ 144 fiber MPO Panel contains factory controlled and tested Modules can be installed in it.

| ITEM | SPECIFICATION |
|-----------------------|--|
| Body Materials | SPCC(Cold Rolled Steel) |
| Painting Finish | Black fine grain sand Electrostatic spraying |
| Panedl Color | Black |
| Panel Height | 1U |
| Fiber Mode | OS2,OM3 and OM4 |
| Operation Temperature | -20°C ~+70°C |
| Storage Temperature | -20°C ~+60°C |
| Relative Humidity | 85%(+30°C) |
| Air Pressure | 70kPa~106kPa |



Features

- 3 Layers Premium sliding rail
- High Efficient front and rear cable management
- Supports Standard LC connector and boot
- 1U upto 144LC port Connection
- 1U upto 72MPO port Connection
- 1U upto 144LC fiber splicing
- MPO tp 8LC/12LC transistion
- MPO/12F to MPTO/BF Conversion
- MPO/LC Patching
- Pigtail Splicing

Conformance

ANSI/TIA 568.3-D



| PARTCODE | SPECIFICATION |
|----------------------|--|
| Material | Plastic |
| Color | Black |
| (front)Adapter type | LC 3 X LC Quad |
| (front)Adapter color | Aqua: OM3/OM4 |
| (rear)Adapter type | MPO |
| (rear)Adapter color | Black |
| Connector A | SMLC-UPC, 0.9mm or LC-APC, 0.9mm MM:LC-UPC, 0.9mm |
| Connector B | MPO (male)-APC MM: MPO (male)-PC |
| Patch cord polarity | Polarity A |



Features

- Module is made of plastic.
- Module capacity up to 12F fully loaded.
- Factory pre- terminated and tested.
- High performance zirconia sleeve adaptors.
- Modular in design with high density, it comes up to 12 LC ports to MPO connection



MPO to MPO

| SPECIFICATION |
|----------------|
| Plastic |
| Black |
| MPO |
| Black |
| MPO |
| Black |
| MPO Male-APC |
| MPO Male-PC |
| MPO Male-APC |
| MPO Male-PC |
| Type A, B or C |
| |



Features

- Module is made of plastic.
- Factory pre- terminated and tested.
- High performance zirconia sleeve adaptors.
- Modular in design with higher den sity, it comes up to 3MPO Duplex adapter ports which switch to MPO connectivity.

Splicing Module-LC

| ITEM | SPECIFICATION |
|----------------------|---------------|
| Material | Plastic |
| Color | Black |
| (front)Adapter type | 3 X LC Quad |
| (front)Adapter color | Aqua / Blue |



Optical Performance

| PARAMETER | Module I.L Max | Module R.L Max |
|--------------|----------------|----------------|
| MPO (SM/APC) | ≤ 0.70dB | ≥ 0.50dB |
| MPO(MM/PC) | ≤ 0.60dB | ≥ 0.25dB |
| LC(SM/PC) | ≤ 0.20dB | ≥ 0.50dB |
| LC(MM/PC) | ≤ 0.20dB | ≥ 0.35dB |

Features

- Module is made of plastic.
- Factory pre- terminated and tested.
- High performance zirconia sleeve adaptors.
- 12 Coloured pigtails



Fiber Panel Solutions

High Density Panel Solutions

3C3® High Density Panel is specially designed to accommodate high density cabling in high end Data center and Telecommunication central office environment. The shallow depth of High Density Panel makes it suitable for low depth copper racking systems or Telecommunication ODFs. The 1U 19" 120 fiber MPO Panel contains factory controlled and tested Modules can be installed in it. Different types of cassettes are available to deliver optimum Performance and reliability. Integrated fiber management features are provided to secure trunk cables, separate patch cords and maintain safe bend radius during fiber routing

| ITEM | SPECIFICATION |
|-----------------|-------------------------------|
| Body Materials | SPCC(cold rolled steel sheet) |
| Painting Finish | Black |
| Panel Color | RAL black |
| Fiber Mode | OS2, OM3, OM4 |
| Panel Height | 1U |
| Dimension | 483mm x 364mm x 1U |

MPO-LC Module

| ITEM | SPECIFICATION |
|----------------------|----------------------------------|
| Material | SPCC(cold rolled steel) |
| Color | Black |
| (front)Adapter type | LC Quad (w/o Flange) x 6Pcs |
| (front)Adapter color | Aqua: OM3/OM4 Beige :OM1/ OM2 |
| | Blue: SM-UPC; Green: SM-APC |
| (rear)Adapter type | MPO |
| (rear)Adapter color | Black |
| Connector A | LC-UPC,0. 9mm |
| | LC-UPC,0.9mm |
| Connectors | MPO-APC |
| | MPO-PC |
| Patch cord polarity | Polarity A |
| Dimension(W xD X H) | 88mm x 1.5mm x 34mm |

MPO Adapter Plate

| ITEM | SPECIFICATION |
|-----------------------|-------------------------|
| Fiber Mode | Multi Mode /Single Mode |
| Dimension (WxDxH) | 88mm x 1.5mm x 34mm |
| Operating Temperature | - 20'C ~ +70'C |
| Storage Temperature | - 40'C ~ + 70'C |



Features

- Designed based on ANSI/TIA 942-B, EN 50173-5 and ISO-IEC 11801-5 standards
- Solution designed to maximize/compact space utilization within data center
- Available in MTP and MPO Offerings
- Fiber Panels designed to accommodate Accommodates 120 or 288 Cores in 1U and 2U respectively
- Available in 8F, 12F, 24F, 48F.....144F for OS2, OM3,OM4 and OM5 10GBASE-T, 25GBASE-T and 40GBASE-T cost-effective solutions on Category 6A and Category 8 connectivity.
- Plug and Play Solution which are 100%
 Factory Tested and Terminated to reduce Installation time



Features

- Module is made of SPCC
- Module capacity come up to 24F fully loaded
- Factory pre-terminated and tested
- High performance zirconia sleeve adaptors
- Modular in design with higher density, it comes up to 24 LC ports and - Switch to 2X12 MPO connection and 12LC port and switch to 1x12 MPO Connection



Features

- Flexible configuration, fast Installation
- Quick disassembly, easy installation, no tools required
- MTP/ MPO adapters can be selected according to



Fiber Panel Solutions

Standard Density Panel Solutions

The Fiber Panels are designed with 4 cutouts to mount adapter plate assemblies. With the special sliding design, this panel allows easy access during installation or rework without disturbing previously terminated fiber cable, this also offers multiple cable entries to provide various customized solutions as per the customer's requirement

| ITEM | SPECIFICATION |
|-----------------------|---|
| Adapter Type (Front) | 6LC Quad, 6LC duplex |
| Adapter Type (Rare) | MPO/MTP |
| Adapter Color (Front) | Aqua:MM,Blue:SM |
| Adapter Color (Rare) | Black |
| Connector A | SM:LC-UPC,0.9mm or LC-APC,0.9mm MM:LC-UPC,0.9mm |
| ConnectorB | SM: MPO/MTP(male)-APC MM: MPO/MTP(male)-PC |
| Patch Cord Polarity | TypeA |

| TYPE | WAVELENGTH | MODULE LL.MAX |
|------------|---------------|---------------|
| MTP-LC(MM) | 850nm/1300nm | 0.50dB |
| MTP-LC(SM) | 1310nm/1550nm | 1.30dB |
| MPO-LC(MM) | 850nm/1300nm | 0.75dB |
| MPO-LC(SM) | 1310nm/1550nm | 1.50dB |







Features

- Standard 19-inch Rack Mountable
- Innovative and robust design
- Unique slide design, structural stability, easy to use and operate, slides smoothly without interference.
- Accepts Four LC quad cassettes
- Adapter panel is made of steel plate
- Flexible configuration, installation fast.
- Pull buckle fixed, installation MTP/MPO adapter
- 12F Cassette: 6LC Duplex at front and 1x12F MPO at rear
- 24F Cassette: 6LC Quad at front and 2x12F MPO at rear

Conformance

- ANSI/TIA 568.3-D
- IEEE802.3ba
- ANSI/TIA-942

Application

- Data Centre Infrastructure.
- Storage Area Network.
- Fiber Channel



Fiber Panel Solutions

LGX Panel Solutions

The LGX Modular Sliding Patch Panel 1U with 3Cutout are innovative, robust and has been designed to accept up to 3 style assemblies. With the ability to use a full array of adaptor types, this panel offers a flexible solution to the end user, enabling them to incorporate a multi- functional chassis that allows easy access during installation or rework with no isturbance of the existing cable or fibers. In the addition to the array of adaptors the panel also offers multiple cable entry solutions, MPO/MTP trunk cables connected to 3 individual MPO/MTP cassettes with up to 24 fibers in each, loose tube cable to be spliced into standard splice cassettes to allow standard splicing or pre terminated solutions, making this panel one of the most flexible on the market.





Technical Specifications - Panel

| SPECIFICATION | VALUES |
|----------------------|-------------------------|
| Material | SPCC(cold rolled steel) |
| Dimension (HXWXD) | 1UX483X260mm |
| Form Factor | 19" 1U Rack Mount |
| Depth | 250mm |
| Color | Black |
| Operating Temprature | -25°C ~ +75°C |
| | |

Features

- Cassette is made of steel plate.
- Flexible configuration, installation fast.
- 12F Cassette: 6LC Duplex at front and 1x12F MPO at rear
- 24F Cassette:12LC Duplex at front and 2x12F MPO at rear
- 8 MPO Adapters per Plate -12F/24F
- 6 LC Quad Adapter Plate

Technical Specifications - Cassette

| VALUES |
|-------------------------------|
| Values |
| 6 x LC Duplex, 12 x LC Duplex |
| Aqua : OM3, OM4 Blue : OS2 |
| blue : 052 |
| 12F/24F MPO/MTP (Full Flange) |
| Black |
| |





Fiber Panel Solutions

Hybrid Panel Solutions

The High Density Hybrid panel accepts either or both copper and fiber modules. The Panels are designed with 4 cutouts offer fast and reliable installation, reduces required rack space and provides future proofing in system design, a rear cable management bar is supplied which acts as stress reliever for terminated cables. Patch Panel includes with mini cable ties, cage nuts and rare cable management.



| ITEM | SPECIFICATION |
|----------------------|-------------------------|
| Material | SPCC(cold rolled steel) |
| Dimension (HXWXD) | 1UX482X135.7mm |
| Form Factor | 19" 1U Rack Mount |
| Color | Black |
| Operating Temprature | -25°C ~ +75°C |

Technical Specifications - MPO-LC Cassette

| SPECIFICATION | Values | |
|-------------------|---|--|
| Material | High impact Flame retardant plastic UL94V-0 | |
| Dimension (WXDXH) | 110.3 x 118.7 x 44 mm | |

Technical Specifications - Keystone Jack UTP Module Cassette

| SPECIFICATION | Values |
|-------------------|---|
| Material | High impact Flame retardant plastic UL94V-0 |
| Dimension (WXDXH) | 110.3 x 118.7 x 44 mm |



Features

- Designed based on ANSI/TIA 942-B, EN 50173-5 and ISO-IEC 11801-5 standards
- Solution designed to maximize/compact space utilization within the cabinet
- Accommodates MPO(Polarity and Gender Changeable), MTP and Preterminated cables and splicing solutions within the same panel
- Accommodates 4 nos cassettes or adapter plate which can be either Fiber or Copper based connectivity in 1U
- Available for U/UTP Cat6 and Cat6A as well as OS2.OM3.OM4 and OM5
- Slim Copper Patch Cord for Space Saving and effective Air Flow.
- Fiber Patch cord with a PULL TAB for high density patching and Increases density by upto 60%
- Plug and Play Solution which are 100% Factory Tested and Terminated reduce Installation time

MPO- LC Cassette

Keystone Module







Copper 40/25G Solutions

Catagory 8 SFTP Cables

High Speed 40/25 Gigabit Ethernet S-FTP 2000 MHz Category 8 LSZH Cable is produced using 8x22 AWG Solid Bare Copper Conductors. Every pair is separately shielded - pairs in metal foil (PIMF). The twisted pairs are covered with a braided screen (S/FTP) which guarantees outstanding shielding properties and then LSZH Outer Sheath. It supports 25G Standard.



| CONSTRUCTION | VALUE | |
|--------------|-------------|-------------------|
| Construction | AWG | 22 |
| | Material | Solid Bare Copper |
| Insulation | Diameter mm | 1.65 ± 0.05 |
| | Material | Skin Form Skin |
| | External OD | 8.4± 0.2 |
| | Material | LSZH |

Features

- Bare solid copper conductor
- Color : Coded Foam PE Insulation
- Operating Temperature: -10° C to +60° C

Conformance

- ANSI/TIA 568.2-D
- ISO/IEC 11801 Class II
- EN 50173



Copper 40/25G Solutions

Catagory 8 S/FTP Patch Cord

High Speed 25 Gigabit S-FTP Patch Cable Grey, LSZH, C8 delivers optimal transmission and networking performance with reduced insertion loss and Alien Crosstalk. They have high performance components available in broad range of lengths and designed to meet or exceed all Cat 8 specifications. 24 AWG conductors are securely mated with Shielded RJ45 plug design to deliver superior performance.



| CONSTRUCTION | VALUE | |
|--------------|----------------|----------------------|
| Construction | AWG | 24 |
| | Cable Diameter | 7.4± 0.2mm |
| | Material | Stranded Bare Copper |
| Cable | Туре | S/FTP |
| Shielding | #1 | Aluminum/PET |
| | #2 | Tinned copper |
| Jacket | Material | LSZH |

Features

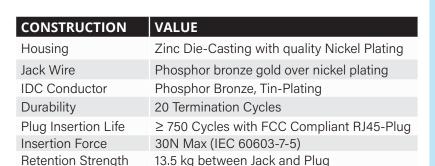
- Quality 24 AWG Stranded Cable
- High Grade 50mu gold plated fully shield ed RJ45 Connectors
- Improved strain relief boot correct bend radius to ensure maximum performance
- Operating Temperature: -20°C to +60°C

Conformance

- ANSI/TIA 568.2-D
- ISO/IEC 11801 Class II
- RoHS directive 2011/65/EU compliant

Category 8 Shielded Keystone Jack

Cat8 Keystone Outlet support bandwidth of 2000Mhz at channel length upto 30 meters. Support 25G Base-T and 40G Base T applications.





Features

- Provides excellent work in suppressing internal magnetic coupling up to bandwidth of 2000MHz at 30M channel length
- 180 degree design
- Die-cast housing provide EMI, RFI and excellent AXT suppression.
- Suitable for PoE+(IEEE802.3at) applications
- Operating Temperature : -10°C to +60°C

Conformance

- ANSI/TIA/EIA 568.2-D
- ISO/IEC 11801 Class II
- ISO/IEC 60603-7 Compliant



Copper 40/25G Solutions

V Shaped Angled Panel

High Density V-shaped Angled Patch Panel, 1U, offers fast and reliable installation of shielded/unshielded cables. A rear cable management bar is supplied which acts as stress reliever of terminated cables. Each port of the panel is numbered and having designated label area for clear port identification. Available in 24 and 48 port.



0.5U 24 Port Panel

This 24 Port 0.5U High Density Patch Panel delivers a high density offering with the benefit of a single row of keystone outlet. The single row of outlets means that the installation is straight forward and allows an individual jack to be removed if required. As the panel is only 0.5U in height it allows, by using two panels together, the ability to present 48 keystone outlets in 1U of rack space. Using two 0.5U panels ensures that the outlets are all aligned the correct way up. The Jack to be ordered separately

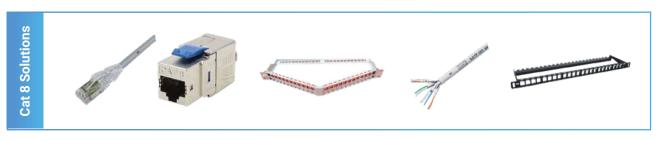


| CONSTRUCTION | VALUE |
|------------------------|------------|
| Panel | Metal SPCC |
| Panel Thickness | 1.5mm |
| Panel Color | Metallic |
| Port Count | 24 Nos |
| Each port Numbering | Yes |
| Grounding | Yes |
| Compatible Outlet Type | Shielded |

Features

- Compliant with ISO/IEC11801-1 Class II and ANSI/TIA 568.2-D for Cat.8
- Power over HDBaseT™ (PoH) applications up to 100 W

Cat 8 Solutions





Copper 10G Solutions

Catagory 6A SFTP Cables

Category 6A High Speed 10Gigabit Ethernet Shielded Cable is produced using 8 x 23 AWG Solid Bare Copper Conductors. Every pair or the entire 04 pair are shielded - pairs in metal foil (PIMF). These Structured Cable Suitable for 10/100/1000Base-T, 155Mbps ATM, IEEE 802.3an (10GBase-T) Standard.



| CONSTRUCTION | | VALUE |
|--------------|-------------|----------------------|
| Insulation | AWG | 23 |
| | Material | Stranded Bare Copper |
| Insulation | Diameter mm | 1.37±0.05 |
| | Material | Foam Polyethylene |
| Jacket | External DD | 7.5±0.04 |
| | Material | LSZH |

Features

- Bare solid copper Conductor
- Color: Coded Foam PE Insulation
- Operating Temperature: -10°C to +60°C

Conformance

- ANSI/TIA/EIA 568.2-D
- ISO/IEC 11801 Class EA
- EN 50173
- RoHS 2011/65/EU Compliant



Copper 10G Solutions

Catagory 6A S/FTP Patch Cord

Category 6A S/FTP Patch cords are manufactured using high quality 4 Pair Solid cable and features cable strain relief boot with plug latch protection cap. These high performance components available in broad range of lengths. They are designed to meet or exceed Cat6 specifications. Conductors are securely mated with Shielded RJ45 plug design to deliver superior performance

| CONSTRUCTION | | VALUE |
|--------------|---------------------|-------------------------------|
| Construction | AWG | 26 |
| | Cable Diam- eter | 0.57+0.01 |
| | Material | Solid Bare Copper |
| | Туре | SF/UTP |
| Shielding | #1 | Al-Mylar Tape with Drain Wire |
| | #2 | Alloy Braiding |
| | External OD | LSZH |



Features

- Quality 26 AWG Solid Cable
- High Grade 50 Gold Plated Fully Shield ed RJ45 Connectors
- Transparent Strain Relief Boot with Soft Latch-cover design
- Operating Temperature : -20°C to +60°C

Conformance

- ANSI/TIA/EIA 568.2-D
- ISO/IEC 11801 Class E
- RoHS directive 2002/95/EC compliant



Category 6A Shielded keystone Jacks are Press-fit Technology design which completes the insertion of the IDC and RJ45 contacts into the PTH (Plated-Through Hole) on a PCB (Printed Circuit Board). The connection is established without using solder. Press-Fit technology connections avoid quality problems such as cold spots, voids, splatters, and cracks and is highly reliable than soldering. Press-Fit technology does not use solder, it uses no lead (Pb) and there is no extra heat on the connections, it makes the connections clean, reliable, and meets RoHS standards.

| CONSTRUCTION | VALUE |
|---------------------------|---|
| Housing | Zinc Die-Casting with quality Nickel Plating |
| Jack Wire | 0.35 Phosphor bronze gold over nickel plating |
| IDC Conductor | 0.5mm Phosphor Bronze, Tin-Plating |
| Durability | 200 Termination Cycles |
| Plug Insertion Life | ≥ 750 Cycles with FCC Compliant RJ45-Plug |
| Plug & Jack Contact Force | ≥ 100 Grams with FCC Compliant RJ45-Plug |
| Plug Retention Force | ≥ 11 lbf |



Features

- Innovative press fit technology with fully RoHS Compliant (No Solder - No Leads)
- No punch down tool required.
- 180 degree design
- Die-cast housing provide EMI, RFI and excellent AXT suppression.
- Provides excellent work in suppressing internal magnetic coupling up to 500MHz.
- Operating Temperature : -10°C to +60° C

Conformance

- ANSI/TIA/EIA 568,2-D
- ISO/IEC 11801 Class EA
- EN 50773



Copper 10G Solutions

Catagory 6A Slim Patch Cord

Category 6A Slim Patch Cords design provides a reduced diameter profile which offers a perfect solution for high density patching applications that require a smaller and more flexible cable. These high performance components available in broad range of lengths. They are designed to meet Category 6 specifications. Conductors are securely mated with unshielded RJ45 plug design to deliver superior performance. These cables support data rates up to 1Gbps for demanding high - speed voice, video and data applications



| PARAMETER | VALUES |
|-------------------------------|-----------------|
| Conductor Diameter | 28 AWG |
| Insulation Material | PE |
| Insulation Diameter | 0.60mm ± 0.08mm |
| Outer Cable Diameter | 3.6mm ± 0.2mm |
| Jacket | LSZH |
| Rated Temperature | 75°c |
| Maximum Insulation Resistance | 376µ/Km |

Features

- 28 AWG patch cord occupy less than½ the space of commonly used patch cords.
- This enables simplified cable management and improves air flow, reducing pathway fill and operating cost

Conformance

- ANSI/TIA/EIA 568.2-D
- ISO/IEC 11801 :2002 Ed.2
- IEC 60603-7



Copper 10G Solutions

Category 6A High Density Snap-In 1U Jack Panel

Category 6A High Density Snap-In 1U Jack Panel offers fast and reliable installation of UTP/FTP cables, a rear cable Management bar is supplied which acts as stress reliever of terminated cables. Each port of the panel is numbered and has a designated label id area for clear port identification. Patch Panel comes with mini cable ties, cage nuts and rare cable management as standard package.



Features

- High density placement, 48 ports in 1U height rack space
- Hand screw, easy to open cover
- Maximizes connectivity per rack mount space
- Accepts all 3C3® high density data, voice modular inserts
- No tools required to install modular inserts on to patch panel

Cat 6A Solutions

Conformance

ANSI/TIA 568.2-D



Cat.6A STP Channel Configuration



Features

- Compliant with ISO/IEC11801-1 class EA and ANSI/TIA 568.2-D Cat.6A 4-connec tor channel included the Alien Cross Talk
- Power over HDBaseT™ (PoH) applications up to 100 W



Copper 10G Solutions

Traceable Copper Patch Cord

Category 6/6A traceable Patch cord feature is highly efficient, bright LED which enables to identify the Patch Cord in no time. These Traceable Patch Cord's LED Light is powered by Micro -USB (No more hand tracing). Dramatically reduces downtime by providing instant cable identification for efficient mistake resolution and maintenance.



| PARAMETER | VALUES | |
|------------|-------------|--------------------------------------|
| Conductor | AWG | 26 AWG |
| | Material | Solid Bare Electrolytic Grade Copper |
| Insulation | Material | Polyethylene |
| Jacket | External OD | 6.23 ± 0.3mm |
| | Material | LSZH |

Features

- Complies to IEC 61156-6 Standard
- Quality 26 AWG Standards flexible cable
- High Grade 50m Gold Plated RJ45 conne ctors
- Injection Molded boot/Strain Relief Boot for improved strain relief-available as option
- Bright Traceable LED Light
- Soft Latch-cover design for easy depression
- Traces Cables instantly in complex wiring systems

Conformance

ANSI/TIA 568.2-D



Copper 10G Solutions

Pre-Terminated Copper Harness Cable

Pre-Terminated Copper Trunk Cables provide a quick plug-and-play solution for links between switches, servers, patch panels, and zone distribution areas in the data center. With the right upfront planning and coordination, these trunks can offer major benefits over terminating twisted- pair cable in the field, Copper trunks are typically comprised of bundles of 6, 12, or 24 and factory terminated with jacks and plugs. There are various pre-terminated copper trunk cables available in Cat 5e, Cat 6, Cat 6A and Cat 8. UTP and STP cable construction with different termination types, such as jack to jack, jack to plug, plug to plug, etc.



| PARAMETER | SPECIFICATION |
|-----------------------------|--|
| Transmission Media | Cat6A - Screened Twisted Pair (F/UTP) |
| Conductor Guage | 23AWG |
| Insulation Diameter | $1.04 \pm 0.06 \text{ mm}$ |
| Jack Type | 8P8C (8-position, 8-contact) RJ45 style Keystone Jack |
| Wiring Scheme | ANSI/TIA.2-D, T568-B |
| Sheath Diameter/Color | $7.5 \pm 0.3 \text{ mm/Grey}$ |
| Jack Insulation resistance | Min. 500 Mμ @ 100 VDC |
| IDC contact resistance | Max. 2.5 mµ |
| Cable Insulation resistance | Min. 150 M /Km |
| Conductor resistance | Max 9.38µ / 700m @ 20°C |
| Resistance unbalance | Max. 2% |
| Capacitance unbalance | Max. 160 pF/100 m |
| Mutual capacitance | Max 5600 pF/100 m |
| Operating Temperature (°C) | -10°C to+ 60°C |

Features

- High-performance Cat6A, Cat6, pre-terminated patch cables with professional grade
- keystone jacks that are de signed to greatly reduce instal lation time
- Keystone jacks are compati ble with 3C3 unloaded patch panels
- Available in unshielded and shielded twisted pair cable assemblies, with either jack-tojack or jack-to-RJ45 connector configurations to accommodate any custom application.

Conformance

- ANSI/TIA/EIA 568.2-D
- ISO/IEC 11801:2002/Amd:2:2010
- ISO/IEC 60603-7 Compliant



Pathway Solutions

Overhead Optical Pathway Systems (OOPS)

Overhead Optical Pathway Systems (OOPS) are designed to protect and route fiber optic patch cords, cable assemblies to and from network cabinets, ODF and other terminal devices. Optical cable tray offers ideal solutions for optical raceway requirements & application with pleasing appearance and easy maintenance.

| CONSTRUCTION | VALUE |
|---------------------------|-----------------------------------|
| Straight Section Material | Flame-retardant V0 rated material |
| Other Plastic Parts | ABS |
| Sizes | 2" x 2" to 4" X 12" |
| Color | Yellow |



| SPECIFICATIONS & CABLE DIAMETER | | | | | | | | | | |
|---------------------------------|---------|---------|---------|---------|---------|--------|--------|---------|--------|---------|
| Accumulated Height | 2"x 2", | Systems | 4"x4" S | Systems | 4"x6" S | ystems | 4"x10" | Systems | 4"x12" | Systems |
| | 2mm | 3mm | 2mm | 3mm | 2mm | 3mm | 2mm | 3mm | 2mm | 3mm |
| 5cm | 408 | 176 | 816 | 352 | 1224 | 528 | 2040 | 880 | 2448 | 1056 |
| 7.5cm | - | - | 1224 | 528 | 1836 | 792 | 3060 | 1320 | 3672 | 1584 |
| 11 cm | - | - | 1632 | 704 | 2448 | 1056 | 4080 | 1760 | 4896 | 2112 |

Features

- Faster Deployment
- Quick, Easy & Speedy of Installation
- Optical Fiber Protection
- Modular & Flexibility Optical Pathway Systems
- Durable and Strong System
- Constructed with Flame-retardant V0 rated material
- Tool-less design to enhance the system for easy and quick installation including snap- on Cover, hinged over option as well as quick exists
- Push/Pull mating for quick assembly
- Available in five sizes without covers, or with regulars, or hinged covers
- Slotted ducking ideal for cable with varying exit locations
- Maintains bend radius & safely routes & guides optical fiber cables



Pathway Solutions

Over Head Mesh System (OHMS)

Over Head Mesh System (OHMS) utilizes high quality mechanical strength wires welded in a 2" x 4" grid pattern, producing a strong, versatile & economical cable support system & is designed for maximum flexibility. These prefabricated fittings are a time-saving and cost effective and can be easily field cut bent, assembled & can have convenient cable drops.

| CONSTRUCTION | VALUE |
|---------------------------|--------------------------------------|
| Straight Section Material | Steel |
| Sizes | 2", to 24"(Length),1,5" to 6"(Depth) |



Features

- Faster Deployment
- Time-saving and cost effective
- Field fabrication for Easy transitions & Adaptability
- Excellent ventilation
- Maximum strength for minimum weight

Overhead Patching Frame

Overhead Patching Frame is a 19" width frame that attaches directly to overhead cable management systems above racks or enclosures for patching or installation of small switches. Patching Frame provides flexibility in network and datacenter design by decoupling the physical network cabling from the enclosure, allowing easy movement of racks and upgrades to the network.

| SPECIFICATION | VALUE |
|--------------------|-----------------------------------|
| Material | Powder coated, electroplated zinc |
| Size | 2U- 6U |
| | 2U -525 x75x139x2.0mm |
| | 3U - 525 x75x184x2.0mm |
| Dimension(LXWXHXT) | 4U - 525 x75x229x2.0mm |
| | 5U - 525 x75x274x2.0mm |
| | 6U - 525 x75x319x2.0mm |
| Installation Parts | 2 Sets of mounting brackets, |
| | 10 sets of screws and nuts |
| | |







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DATA CENTER SOLUTIONS

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