




DATA CENTER SOLUTIONS

Copper Solution | Fiber Solution | Cable Management Solution | Cabinet Solution





INTRODUCTION To DATA CENTER

Today's Data Center is a trend with evolving systems, technologies, logical architectures and new business models.

Operating within this environment, Data Center managers are required to ensure their infrastructure is highly available, scalable and flexible, while at the same time, control operating expenses.

The challenge facing Data Center managers is that these elements – increasing bandwidth by maximizing processing capacity, while minimizing the Data Center's footprint, and reducing operational costs-typically tend to work against each other. For example, as the IT load is

increased with high-density active equipment, the system's power and cooling requirements are increased and so are the energy costs.

We can help maximize these cooling, power, density opportunities because Belden has expertise in all three areas — delivering the solutions for building a highly efficient, optimally performing Data Center.

Lux Communications has the knowledge and products to make your data center secure, productive, power efficient and future ready. We can manage the entire process by providing comprehensive and timely knowledge of data center issues and the latest technologies.

COPPER SOLUTION

CAT 6A S/FTP CABLE

The Category 6A S/FTP cable is composed of 23 AWG (0.56) solid bare copper conductors and fully meets ISO/IEC11801 Class EA and TIA/EIA-568-C.2

- 23 AWG Bare solid copper conductor
- UL / Delta certified
- Sequential meter markings
- Category 6A Performance to 650 MHz
- 25 year system warranty available

CAT 7 S/FTP CABLE

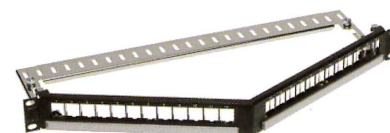
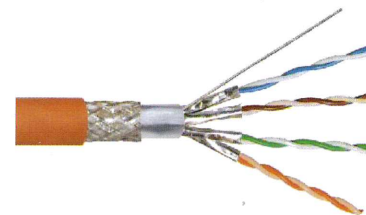
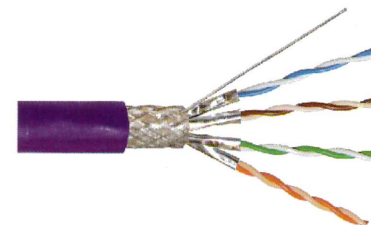
Category 7 cable S/FTP is manufactured to meet ISO/IEC 11801 Class F standard. This cable is rated for transmission up to 1000MHz within 100 meters with 10 Gigabit Ethernet.

- 23 AWG Bare solid copper conductor
- Sequential meter markings
- Category 7 Performance to 1000 MHz
- UL / Delta certified
- 25 year system warranty available

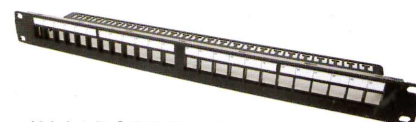
CAT6A SHIELDED PATCH PANEL

Lux's shielded modular patch panels solutions that accept all RJ45 keystone jacks. The 19" mounting patch panel is available in 1U (24-ports) height, 2U (48-ports) height, flat type and angle type.

- Available in 1U, 2U, Flat and Angled
- Available in shielded or unshielded version
- Accepts all RJ45 keystone jacks
- Built-in strain relief bar
- Area for port identification



1U 24 PORT ANGLE PANEL



1U 24 PORT FLAT PANEL

SHIELDED CAT6A KEYSTONE JACK

Cat6A (Augmented) Shielded Keystone Jacks allow for shielded cabling solution installation. They can be installed into the faceplate and unloaded shielded patch panel.

- Accepts 22-24 AWG solid or stranded cable copper conductor
- Conforms to Category 6A standards
- Universal labels color coded for TIA568A and TIA568B wiring schemes
- LSA compatible IDC
- 25 years system warranty



CAT6A STP PATCH CORDS

The 4-pairs foiled twisted pair patch cords are constructed with 24 AWG (U/FTP) / 26 AWG (S/FTP) bare stranded copper conductor LSZH outer jacket.

- 8-positions conductor
- LSZH outer sheath
- Terminated with RJ45 8-positions modular plug
- 100% component test
- 25 year system warranty available

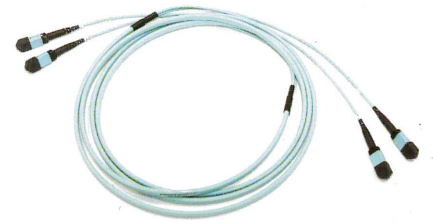


FIBER SOLUTION

MPO TRUNK CABLE

MPO Trunk Cable is designed for data center solutions supporting the topologies such as 10/40/100 Gigabit Ethernet, Fiber channel or Infini-band. It supports Base-8 / Base-12 for SR4 & Based-24 for SR10 Transceivers.

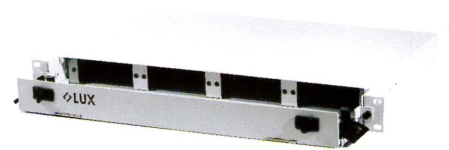
- Quick installation
- High quality – Low Insertion Loss
- From 8 core up to 144 core
- Bend Insensitive fiber
- Various color coding for fiber type identification



MPO PATCH PANEL

MPO patch panel is a high density panel which is specially designed to accommodate high density cabling solution in Data Center and Telecommunication central office. Each RU supports up to 4 x MPO Cassettes and up to 96 x LC each RU.

- Quick & Easy installation to save time
- Up to 50% space saving due to high density
- High Density – up to 384port LC (4U)
- MPO faceplate available for option



MPO FIBER CASSETTE

MPO Cassettes are designed for Data Center Solutions supporting the topologies as specified in the Data Center Standards EN 50173-5 and ISO/IEC 24764. MPO cassettes connected with MPO Trunk or MPO Patch cables provide the possibility to make cross-connections or inter-connections to end equipment.

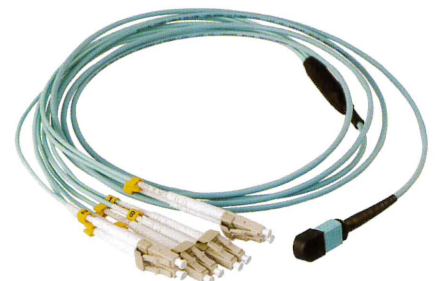
- Quick & Easy installation
- Up to 50% space saving due to high density
- 12 or 24 LC available for option
- Bend Insensitive fiber
- Various color coding for fiber type identification



MPO HYBRID BREAKOUT FIBER OPTIC CABLE

Fiber optic fan-outs are designed for patch panels or cable ducts where space-saving is required. The patch panels have either array fusion splicing (between outside plant cables and bare ribbon pigtails) or array interconnections (MPO/MTP fan-out).

- 8 -144 fiber count available
- Save duct space and installation time
- Enable an easy and well organized high density installation
- Easy to add, change or drop and no down time
- Elite low loss connector



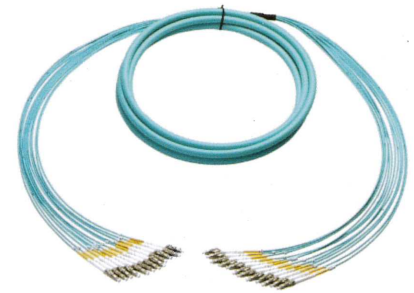


FIBER SOLUTION

BREAKOUT CABLE ASSEMBLY

Pre-terminated Breakout Cable offers interconnect and cross – connect for installations in entrance facilities, telecommunications rooms, data centers and at the desk. Patch cords support network applications in main, horizontal and equipment distribution areas.

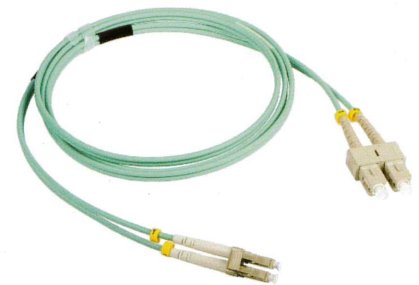
- Available in OS1/OS2, OM1, OM2, OM3 & OM4
- Ensure high performance and reliability in the cable management
- Fast and easy installation and reconfiguration
- High Density with slim cable type
- Bend Insensitive fiber



OPTICAL FIBER CABLE ASSEMBLY

Fiber patch cord offers interconnect and cross – connect for installations in entrance facilities, telecommunications rooms, data centers and at the desk. Patch cords support network applications in main, horizontal and equipment distribution areas.

- Available in OS1/OS2, OM1, OM2, OM3 & OM4
- Premium Optical Performance & High stability
- Bend Insensitive fiber
- Various connectors available (LCD, LC Uniboot, LC HD...etc)
- Available in PVC or LSZH jacket



CABLE MANAGEMENT SOLUTION

CABLE BASKET

Cable Basket is easy to deploy and provide with a full range of accessories for fast and easy installation.

- Easy installation and labor saving
- Supports large quantities of cables
- Full range of accessories
- Easy to splice and bond together
- Easy for maintenance and expansion
- Can be used above ceiling, under raised floor or top of racks



CABLE LADDER

The system provide the effective routing solutions to easily manage and protect cables. Lux's cable ladder can be tailored to meet your own specific requirements.

- Minimize cable damage
- Proper cable bend radius for better data transmission
- Easy and fast deployment
- Flexible to expand, move and change
- Meet TIA/EIA installation guidelines for Category5e, 6, 6A and fiber optical cables



FIBER RACEWAY

The fiber raceway system is designed to protect and route the fiber optic cables between racks, cabinets or ODF. The system ensures a minimum bend radius to protect bend sensitive fiber core cables.

- 120mm, 240mm and 360mm series
- Straight section available in ABS or PVC
- Easy to expand, move and change
- Easy and fast deployment
- Tool-less junction design
- ABS for tool-less junction
- UL94 V-0
- Standard in yellow color



CABINET SOLUTION

FLOOR MOUNT CABINET

LUX offers a comprehensive range of cabinets from 37U to 52U. Our high quality products and applications address challenge of cable management, cooling, energy saving, space utilization and scalability.

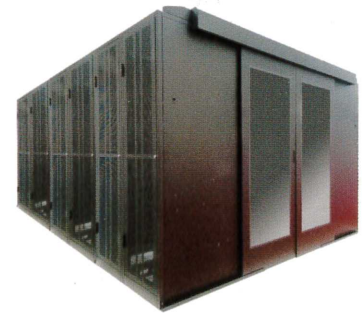
- Load Capacity
- Modularity
- Scalability
- Adaptability
- High Capacity Hosting



aisle Containment Solution

Aisle containment solutions easily adapt to challenges such as limited ceiling height and limited headroom conditions. The aisle containment is designed on modular type and fully compatible with Lux's standard 37U, 42U, 45U and 47U cabinets in rows based. Our aisle containment is also able to fixed on third parties' standard cabinets.

- Modular design allows expansion
- Additional mounting or fixing kits not required
- Easy and fast deployment
- Fail safe design for roof system
- Available on automatic or manual dual sliding door
- Eliminates hot spots



AIR FLOW MANAGEMENT ACCESSORIES

Air flow management accessories is to enhance the air flow management in the cabinet. These accessories significantly ensure the optimization of the cold air flow within the cabinet

- Installer friendly & quick installation
- Capable to mound on standard 19" cabinet and racks
- Highly effective to seal unused rack space and prevents thermal short circuit
- Improve airflow management
- Energy saving
- Enhances looks and aesthetics of the racks
- Comply to EIA-310-E cabinets
- ABS Flammability: UL94V-0





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