

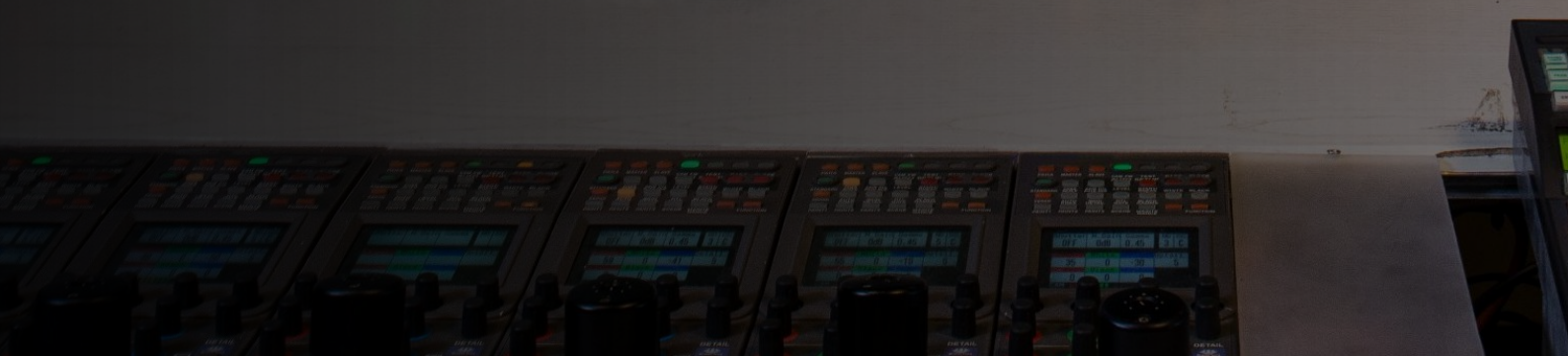


Case Study

Data Center Cabling

FS High-Density FHD[®] Solution
Realizes Improved Space Utilization
in Data Center

FS's high-density FHD[®] solution provides a scalable data center cabling system that optimizes space utilization, reduces maintenance costs, and simplifies future upgrades for the media and entertainment industry.




FS High-Density FHD® Solution Realizes Improved Space Utilization in Data Center


Country

 Australia

Industry

 Sports, Media and Entertainment

Network Type

 Service Provider Data Centers

Solutions

 Data Center Cabling

Key Stats

- Establish multiple 40G and 100G network interconnections to ensure high-speed and stable network performance.
- Utilizing 1U FHD® enclosures optimizes data center space, accommodating up to 4 fiber cassettes and 144 LC fibers.
- 7 global warehouses and a robust supply chain ensure a 100% on-time delivery rate.
- Designed a custom solution and delivered products within 3 weeks, ensuring the client's project stayed on schedule.

“The project was a huge success for us, and we concluded with some celebration here. FS was an integral part of this. I am very happy that I made the choice to go with FS as the primary SFP vendor back!”

Ben Jones
Senior Post-Production Engineer

Overview

The modern media industry is undergoing rapid transformation in the current era of accelerated digitization. Particularly in real-time, high-quality video and audio transmission, audiences seek seamless live streaming experiences and expect to enjoy higher video and audio quality. This trend imposes greater demands on the infrastructure of media companies. Our client, a leading media company headquartered in Australia, primarily engages in live sports broadcasting, large-scale entertainment events, theater productions, and program production. To adapt to industry developments and enhance audience experiences, they require a cabling solution that meets high-performance demands while effectively saving space in the data center.

Highlights

- Enable multiple 40G and 100G interconnects with 1U rack mount blank enclosures, MTP®/MPO-LC fiber cassettes, and MTP®/MPO jumpers.
- High-density cabling optimizes space utilization, streamlining management and maintenance in client data centers.
- Client benefits from FS's local warehouse deployment in Australia, receiving products promptly and ensuring timely project completion.

Challenges

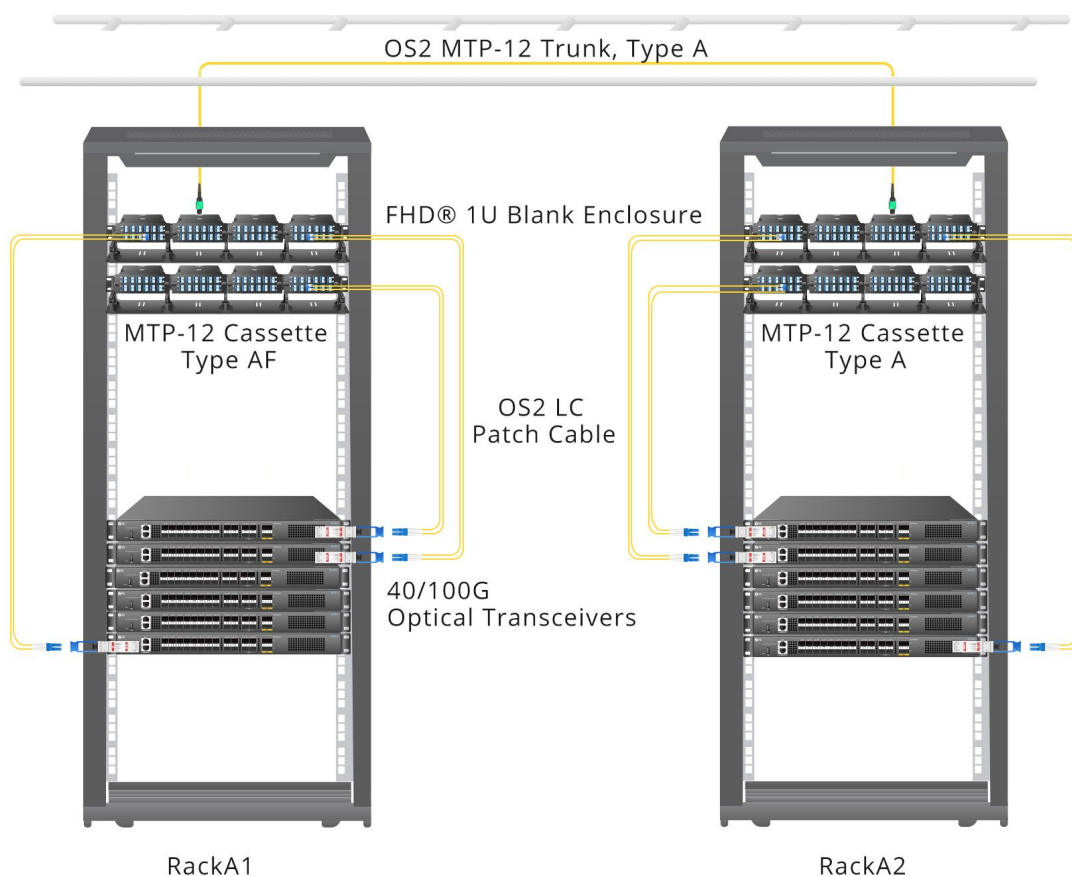
The client is preparing for an international event and relies on the data center for business support. As the number of servers increases and computing capacity expands, the data center has become densely populated with equipment. Therefore, they are seeking a solution provider to devise a high-density cabling solution capable of accommodating multiple 40G and 100G connections within the limited space of the data center room, ensuring both signal quality and system reliability.

Preparing for an international event involves substantial equipment deployment and extensive cabling work. To ensure smooth execution and timely commencement, a comprehensive and viable solution is required. With the project deadline approaching and a tight timeline, the client needs a rapidly deployable solution with local warehousing inventory to guarantee timely completion of cabling and equipment setup.

Solutions

Based on the customer's environment and business needs, the expert technical team designed a high-density FHD® solution to address the limited data center space issue and meet the requirements for compact cabling. This solution deploys FHD® MTP-LC Type A cassette, MTP® Jumper Type A cables, and FHD® MTP-LC Type AF cassette in the customer's data center. This setup can easily achieve 40G/100G network interconnections without replacing switches, optical modules, or other equipment while optimizing data center space utilization and enhancing overall aesthetics and cleanliness.

The FHD® 1U rack mount enclosure accepts up to 4pcs FHD® MTP-LC fiber cassettes, achieving a capacity of up to 144F connections in just 1U of space. It also features a cable manager with 360° rotatable D-rings, offering unparalleled flexibility for cabling.



This high-density cabling solution improves energy efficiency, reduces maintenance costs, and enhances the data center's flexibility, helping customers better adapt to future business needs.

With seven global warehouses and robust supply chain support, all products are quickly coordinated and delivered on time. The technical expert team actively communicates with customers to provide tailored and effective custom solutions. Additionally, physical solution polarity pinout diagrams are provided to help customers understand the connection methods, ensuring smooth project execution and achievement of expected goals.

Results

The high-density cabling solution not only effectively optimizes space utilization in the data center but also enhances the efficiency of equipment operations. The interconnection of 40G and 100G networks ensures high-quality video and audio transmission during events. Additionally, this solution significantly reduces future maintenance costs for the customer's data center. It offers high scalability and flexibility, allowing customers to easily upgrade and expand their data centers to meet business needs, regardless of technological updates or growth.

The client adopts customized solutions designed by the FS expert team and rapidly purchases products through localized warehousing, facilitating smooth project implementation. During the implementation process, customers enjoy 24-hour maintenance services provided by FS, ensuring comprehensive technical support and training, thereby reducing the workload of project maintenance.



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