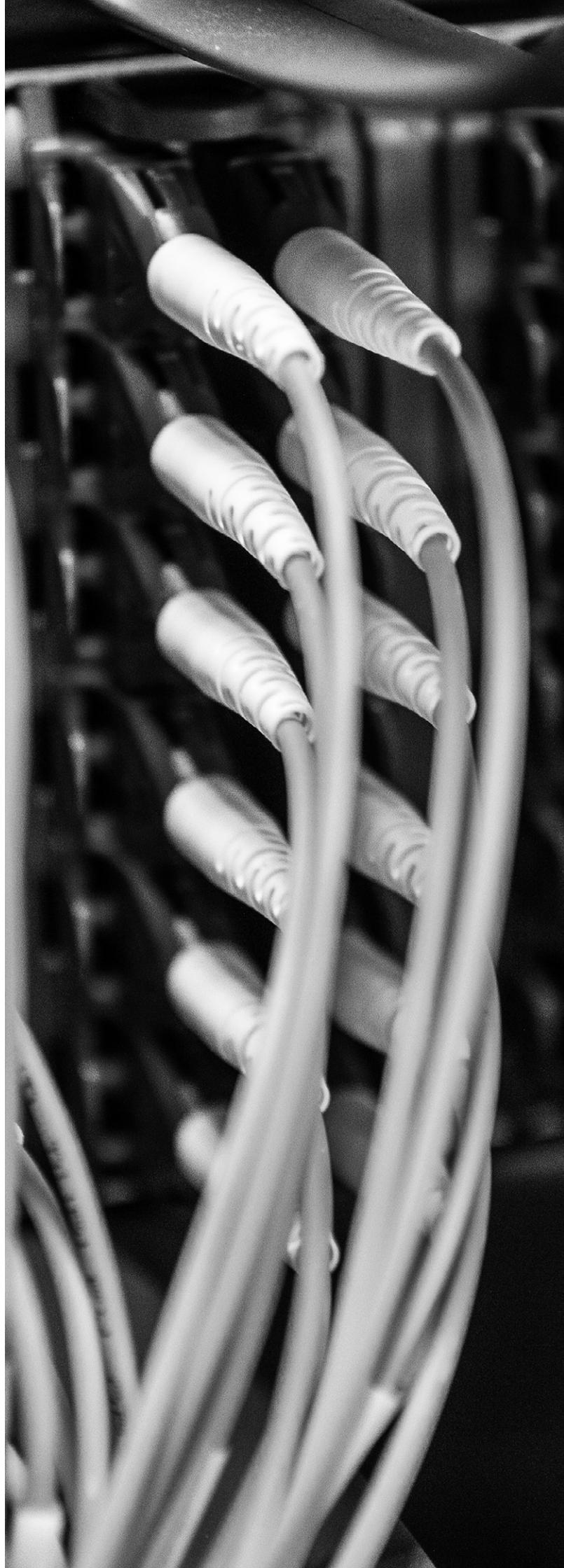


AFLHYPERSCALE.



Series

**Data Center
Cross-Connect**





Data Center Cross-Connect:

Cross-connect with U-Series and SpiderWeb Ribbon® (SWR®) cable

This reference model shows how the U-Series and SpiderWeb Ribbon (SWR) cable can be utilized for a cross-connect in a colocation environment.

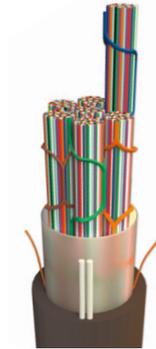
Colocation and service providers such as hyperscale, cloud, telecom, or enterprise companies require physical layer solutions that reduce latency and downtime whilst simultaneously increasing connectivity, density and bandwidth to meet growing data management requirements from new and existing colocation customers. If improperly maintained, a fiber network can quickly become difficult to manage, which can be prohibitive for colocation customers seeking to connect to new service providers.

From the service provider to the colocation data center's Main Distribution Area (MDA), it makes commercial sense to bring in more fiber than what today's networks demand.

Doing so means networks can scale seamlessly and additional cable runs need not be added, resulting in more available space in ducts and fiber raceways. Utilizing 864f flame-retardant Wrapping Tube Cable (WTC) with SWR in conjunction with mass-fusion splicing inside the U-Series 6RU FVP makes connections to the service provider fast and easy to manage. End-users can connect quickly, reducing both installation time and labor costs for all parties and enabling them to generate revenue faster.

Local Distribution Point (LDP) customers can take a flexible approach to scaling their network and building in network redundancy using modular U-Series housings and cassettes, along with a range of connectorized and splicing options should they want to connect with different service providers or add more storage in the future.

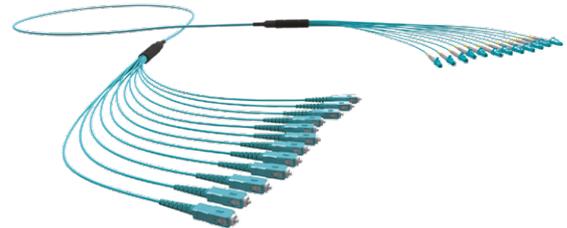
Cable and Assemblies



Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

- Available in 6,912 - 144 fiber densities
- Compact cable construction to optimize duct and fiber raceway space
- Rollable ribbon construction for cable flexibility
- Suitable for mass-fusion and single-fiber splicing - fibers can be connectorized with single-fiber connector or MPO pigtail
- Outside plant, inside / outside plant, inside plant (including CPR) jackets available

[View Product Datasheet](#)



LC Pre-Terminated Assemblies

- Compact, flexible MicroCable customizable to any length and tail fanout/stagger
- Available in OM3, OM4, OS1/OS2, and G.657A1 types
- 12 and 24 cores as standard (high core counts up to 144 fibers available)
- 2mm ruggedized tails (900µm option available)
- LSZH, OFNP, and OFNR cable jacket
- Factory-terminated and tested

[View Product Datasheet](#)



MPO Pre-Terminated Assembly

- Compact, flexible MicroCable customizable to any length and tail fanout/stagger
- Available in OM3, OM4, OS1/OS2, and G.657A1 types
- 12 and 24 cores as standard (high core counts up to 144 fibers available)
- LSZH, OFNP, and OFNR cable jacket
- Factory-terminated and tested

[View Product Datasheet](#)

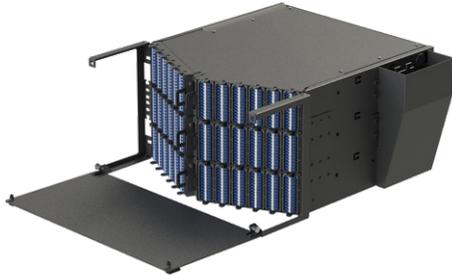


LC Duplex Polarity Reversible Uniboot Patch Cord

- Polarity reversal without the use of tools and without twisting or movement of the optical fiber
- Full duplex in a single 2.4 mm or 2.0 mm diameter cable for space saving and flexibility
- Enhanced optical performance to meet tight data center power budgets
- Available in OM3, OM4, G657A1, or A2 fiber types
- LSZH, OFNP, and OFNR cable jacket
- Factory-terminated and tested

[View Product Datasheet](#)

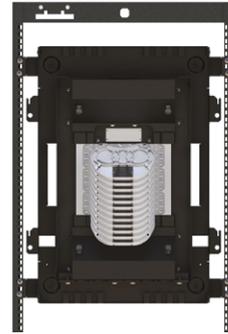
Connectivity



U-Series 6RU Front-Access V-Panel (FVP)

- One-person rack-mountable unit for 864 LC ports
- Ribbon pigtails pre-installed
- 3 slide-out modular drawers for simultaneous, fast, and efficient installation
- 2RU version available

[View Product Datasheet](#)



288f Mass-Fusion Splice Wall Cabinet

- Available for mass-fusion splicing of 6,912fm 3,456f, or 288f ribbon cables
- Easy wall or rack mounting installation for one person
- Space-saving and cost-effective

[View Product Datasheet](#)



U-Series 2RU Housing

- Up to 288 LC ports in 2RU
- Compact size for installation in shallow-depth racks
- Secure, easy-access lock-and-release mechanism
- Front and rear cassette access
- Facilitated patch cord installation

[View Product Datasheet](#)



U-Series 1RU Housing

- Up to 120 LC ports in 1RU
- Compact size for installation in shallow-depth racks
- Secure, easy-access lock-and-release mechanism
- Front and rear cassette access
- Facilitated patch cord installation
- Cable management accessories

[View Product Datasheet](#)

Connectivity



U-Series Mass Ribbon Splice Cassette

- Rapid deployment of mass splicing with 12 splices made in the amount of time as a single traditional fiber splice
- Cost-saving due to installation time reduction
- Modular splice cassettes ideal for dynamic, ever-changing infrastructure
- Up to 24 fibers per cassette - 24 LC or 12 SC
- Cassettes fitted with factory-terminated ribbon assembly
- Low-loss, premium termination for optimal optical performance
- Single-fiber splicing option available

[View Product Datasheet](#)

U-Series MPO Cassette BASE-12

- Plug-and-play cassette with 12-fiber ferrule MPO connector
- SM and MM (OM3/OM4) version
- Polarity A, B, or C
- Up to 24 fibers per cassette - 24 LC or 12 SC

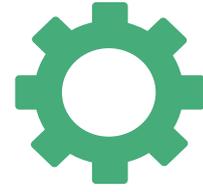
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Your Data Center Connectivity Partner



Global reach

Global support and manufacturing capabilities, with fast delivery across the globe.



Innovative technology

Across fiber density, connectivity automation, splicing capability and emerging bandwidth speeds, we are at the forefront of optical fiber innovation.



End-to-end solutions

From outside the data center to inside, we provide scalable easy-to-use, fast-to-install, high-performance network solutions.



Comprehensive customer support

From product and installation training and installer certification to network warranties, network layouts, and product design, we offer the most comprehensive customer support in the industry.

We pride ourselves on being a dependable partner for many of the world's largest cloud companies, social media platforms, and colocation providers, enabling them to grow and innovate – faster than any other cabling or connectivity manufacturer.

With a world-class technical team available to assist both in the field and back office, supported by pro-active global account management and highly responsive local support (in more than 25 languages), wherever you are in the world, we are here to help.



AFL HYPERSCALE®

Data Center Cabling and Connectivity Experts

AFL Hyperscale is the first cabling and connectivity solution provider focused on the ever-evolving needs of data centers.

Hyperscale, colocation, and enterprise data centers are united in their pursuit to connect the unconnected, yet their infrastructure, performance, and operational challenges are totally unique.

We work collaboratively with our customers to create connectivity solutions tailored to their current needs and to the requirements of future networks. We then use our responsive, global operational capabilities and distribution network for fast delivery.

This approach has transformed how many data centers grow worldwide and is built on 70 years' combined experience in the design and manufacture of high-performance optical fiber networks, a global presence, and the backing and innovation sharing of our parent and grandparent companies, AFL and Fujikura, the pioneer in optical technology. AFL Hyperscale is your dependable partner to build a more connected world.

AFL Hyperscale - The World, Connected.

www.aflhyperscale.com