

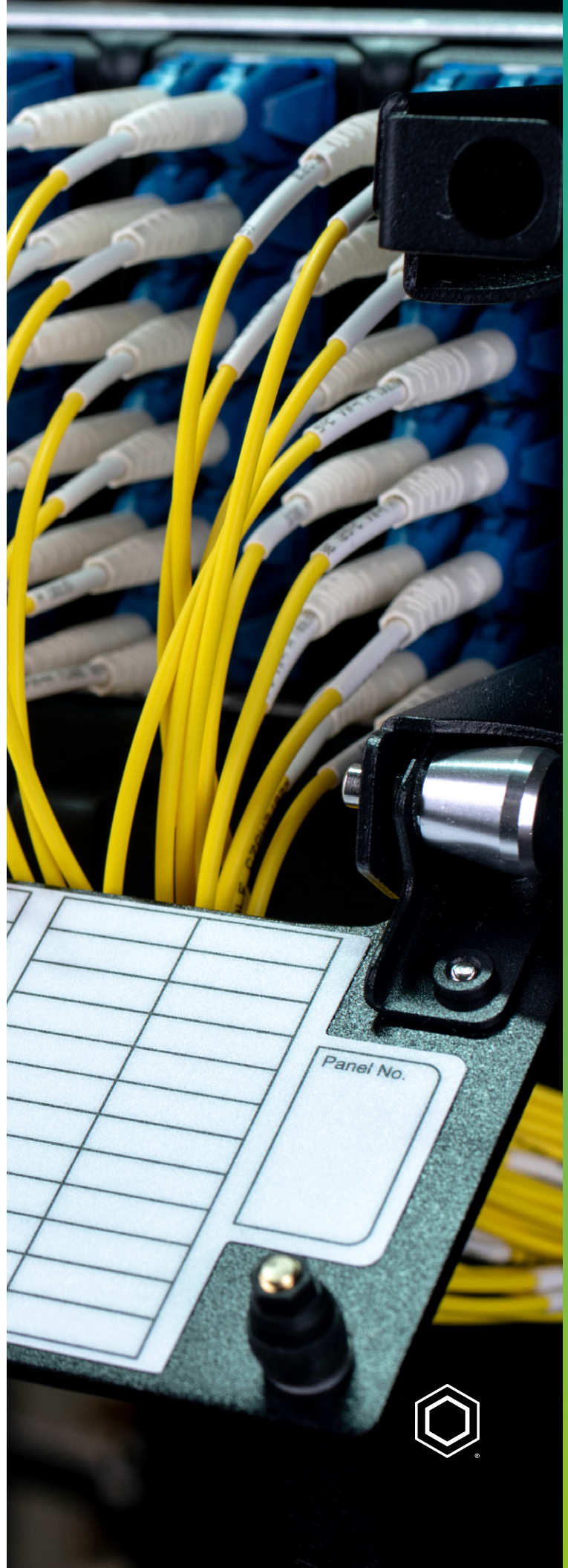
AFL HYPERSCALE®



Series

**A Fast, Flexible Fiber
Connectivity Platform
For Data Centers**

Platform Overview





Data Demands Will Continue to Soar Exponentially. Are You Ready?

According to Statista, predictions estimate the world will generate 181 zettabytes of data by 2025. More data has been generated in the past two years than in any other period since the conception of the internet.

5G, AI, IoT, Big Data, gaming, and streaming contribute significantly to this increase, meaning network density, scalability, increased bandwidth, low latency, and reliability are all top considerations for forward-looking data centers.

Whether an SME, colocation, or hyperscale data center, the U-Series is a fast, flexible modular connectivity fiber platform that ensures you can grow your network when needed. AFL Hyperscale covers your white space for new fiber networks or upgrades to an existing network. The U-Series platform can be utilized across the following applications:

MDA
to Server

MDA
to SAN

MDA
to LDP

MDA
to IDF to
LDP

www.aflhyperscale.com/solutions/network/white-space



A Fast, Flexible Approach To Growing Data Center Networks

Meet bandwidth requirements now and in the future with the fast, flexible U-Series fiber connectivity platform

Our U-Series solution enables you to achieve optimal network capabilities through high-capacity housings, easy-to-install cassettes, and high-performance assemblies so that you can grow at the pace your business requires.



End-to-End Connectivity Solution

Housings, Cassettes, and Cable Assemblies for every part of your data center white space

GB/s

Faster Network Speeds

Future-proof your network with a platform that supports migration from 40Gb/s to 400Gb/s and beyond



Modular Design

Scale your network with additional cassettes and housings as your business grows



High-Performance

High-quality factory terminated and tested assemblies for best performance



Polarity F

Special Polarity F cassettes simplify network design, installation, and testing



25-Year Warranty

For networks designed, supplied, installed, or tested by an approved AFL Hyperscale Installation Partner

HD

High Density

Supports Base-8 and Base-12 applications with 144 LC ports (288 fibers) per 2RU



Quick, Easy Installation

Reduce installation times by up to 75% with pre-terminated cassette options



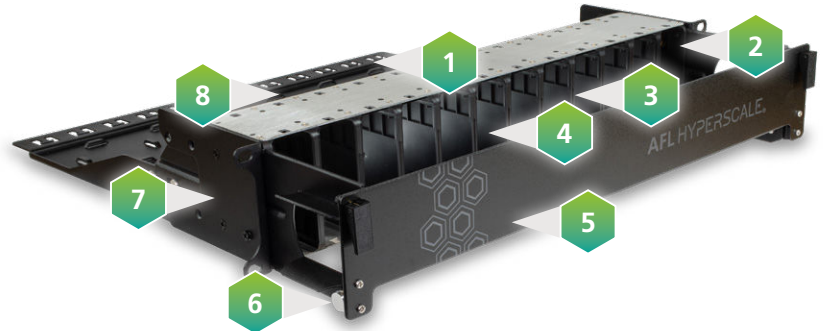
Network Flexibility

Rack-mountable and off-rack mounting options

Housing Overview

Build a high-density network with up to 144 LC ports (288 fibers) utilizing LC duplex in 2RU of space. Compatible with a wide range of U-Series cassettes and patching plates.

1. Rear cable management for securing cable
2. Front access for efficient patch cord installation and reconfiguration
3. Front and rear loading cassettes for a faster, more flexible installation
4. Cassettes can be locked in a parked or maintenance position for simplified patching and unlocked for easy Moves, Adds, and Changes (MACs)
5. Customizable labeling for effective identification for network maintenance, upgrades, and troubleshooting
6. Hinged front door for patch cord protection once installed
7. Shallow-Depth Deployment (<300mm) with front and rear management removed
8. Cassettes can be installed and swapped so you can scale and adapt your network as required



2RU Housing

- Up to 12 U-Series Cassettes
- Maximum density of:
- LC: 144 ports (288 fibers)
- MPO: 144 ports (1728 fibers)



1RU Housing

- Up to 5 U-Series Cassettes
- Maximum density of:
- LC: 60 ports (120 fibers)
- MPO: 60 ports (720 fibers)



0RU Housing

- 1 U-Series Cassette
- Maximum density of:
- LC: 12 ports (24 fibers)
- MPO: 12 ports (144 fibers)

Cassette and Patch Plate Overview

A range of cassettes ideal for dynamic, ever-changing infrastructures, including MPO, splice, patch, and pre-terminated options

1. Up to 12 LC ports (24 fibers), or 12 MPO ports per cassette/patch plate
2. Shuttered LC Adapters eliminate dustcaps and provide automatic laser eye safety as well as easier fault detection
3. Multi-mode and Single mode cassette options available
4. Cassettes can be locked in a parked or maintenance position for simplified patching



MPO Fanout



- Polarity F to simplify network design, installation, and testing
- Up to 12 LC ports (24 fibers) per cassette
- Base-8 and Base-12 options available

Splice



- Up to 12 LC ports (24 fibers) with LC
- Single fiber or ribbon fiber mass-fusion splicing

Pre-Terminated



- Up to 12 ports (24 fibers) with LC
- Cassette to MPO, LC fanout, cable stub, or cassette

Patch Plate



- Up to 12 MPO ports per Patch Plate
- Up to 12 LC ports (24 fibers) per Patch Plate

Assemblies Overview

Our high-performance fiber assemblies enable rapid deployment of high-density cabling and patching in data centers, reducing network installation or reconfiguration time and cost. Easily connect cassettes or panels with our premium connector assemblies to ensure low insertion loss for demanding high-speed networks with critical power budgets.

MPO Trunk Assemblies



- Trunks available from 12 to 144 fibers
- Connect Polarity F cassettes with Polarity B MPO trunks

LC Polarity Reversible Uniboot Patch Cord



- OM3, OM4, and SM fiber types
- Premium LC connectors for high network performance
- Compact diameter 2mm cable



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