

AFL HYPERSCALE.

# The Data Center Cabling & Connectivity Experts

Jilan Shah – Solution Engineer



# AFL HYPERSCALE.



## AGENDA

- Introduction to AFL Hyperscale
- High Density Solutions
- Conclusion & Questions

AFL HYPERSCALE.

# Introduction to AFL Hyperscale



# Data center cabling and connectivity experts



Fast Support



Product Availability



Excellent Value



Product Innovation



# OUR FAMILY



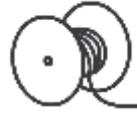
# HISTORY AND MILESTONES

1970



Carlyle Inc. founded to supply wire and cable to aerospace market

1982



Starts to manufacture network cable, Carlyle Network Infrastructure Group is born

1992



FibreFab established to supply fiber optic components

2015



AFL and NetIG form a joint venture

2013

FIBRE FAB

AFL acquires FibreFab

2006



Carlyle Network Infrastructure Group becomes NetIG

2018



NetIG and FibreFab unify globally as AFL Hyperscale

2018



New locations opened in India, Hong Kong and Australia

2019



AFL Hyperscale becomes wholly owned subsidiary of AFL



**96** COUNTRIES  
SOLD TO

**11** GROUP MANUFACTURING  
LOCATIONS

**7** SALES OFFICES

**1** GLOBALLY UNIFIED TEAM

 Sales and Manufacturing     Sales Office     Manufacturing

# OUR LOCATIONS



# SHARING OUR CORE VALUES



# OUR VISION

An innovative  
connectivity solutions  
company selected by  
Partners worldwide





## **OUR MISSION**

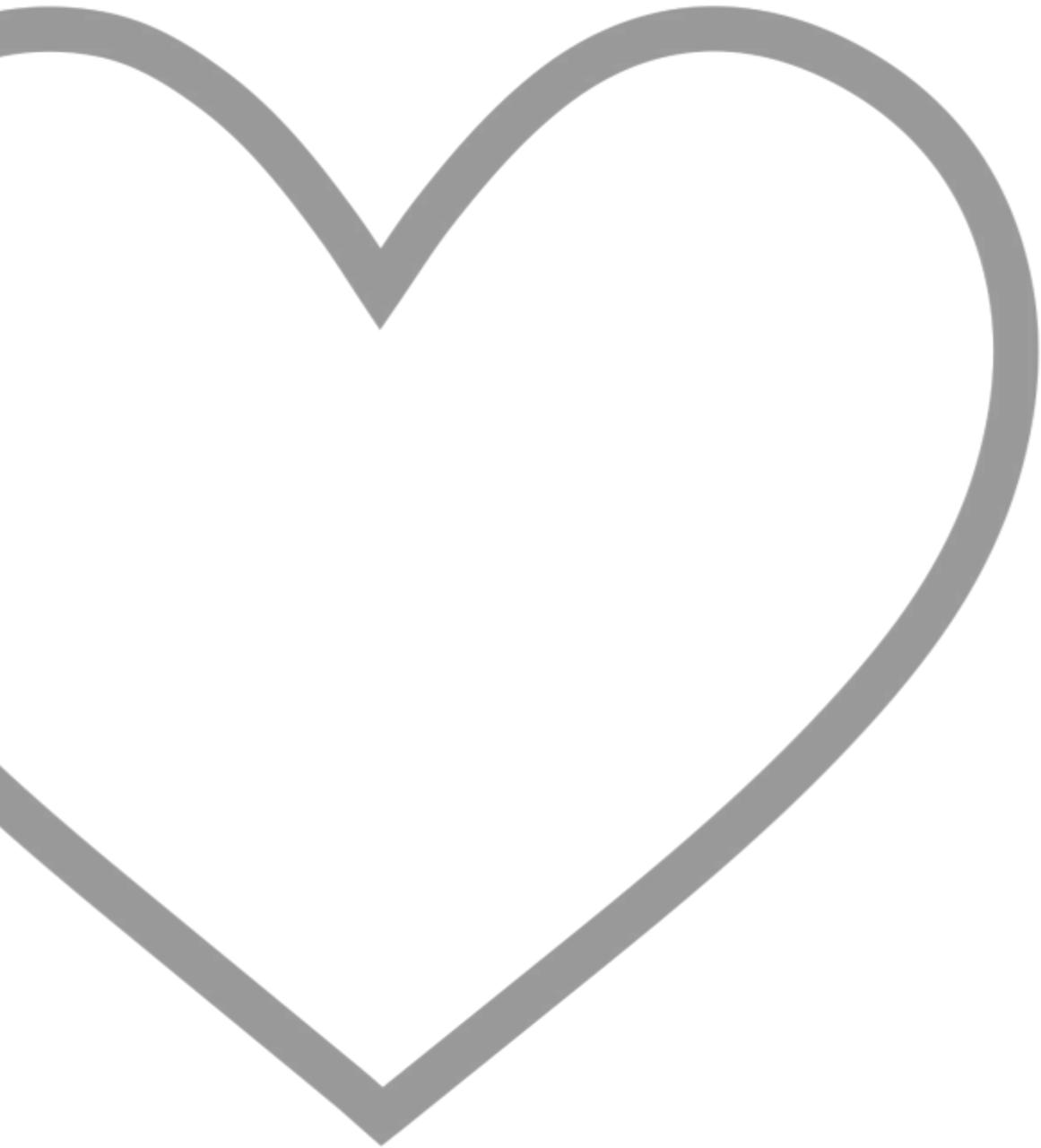
**Optimized connectivity  
solutions driven by  
innovation**



# OUR PURPOSE

To create a consistently profitable and growing business that adds value for our stakeholders. Our stakeholders are shareholders, customers, suppliers, employees and families





## **OUR VALUES**

**Our values are shared globally and define our commitment to our customers, our work, and each other**



**OUR**  
**CREDENTIALS**



**DATA CENTER CONNECTIVITY SPECIALISTS**

**SOLUTION  
AND  
PRODUCT  
AVAILABILITY**



**DATA CENTER CONNECTIVITY SPECIALISTS**

**DATA  
CENTER  
NETWORK  
INNOVATION**



**DATA CENTER CONNECTIVITY SPECIALISTS**

**FAMILY  
COLLABORATION**





# CONSULTATION

HOW CAN WE HELP?



# DEVELOPMENT

HOW WE DO IT





**PRODUCTION**  
MANUFACTURED TO YOUR NEEDS



# QUALITY AND STANDARDS

PEACE OF MIND





# LOGISTICS

WHAT YOU NEED, WHEN YOU NEED IT

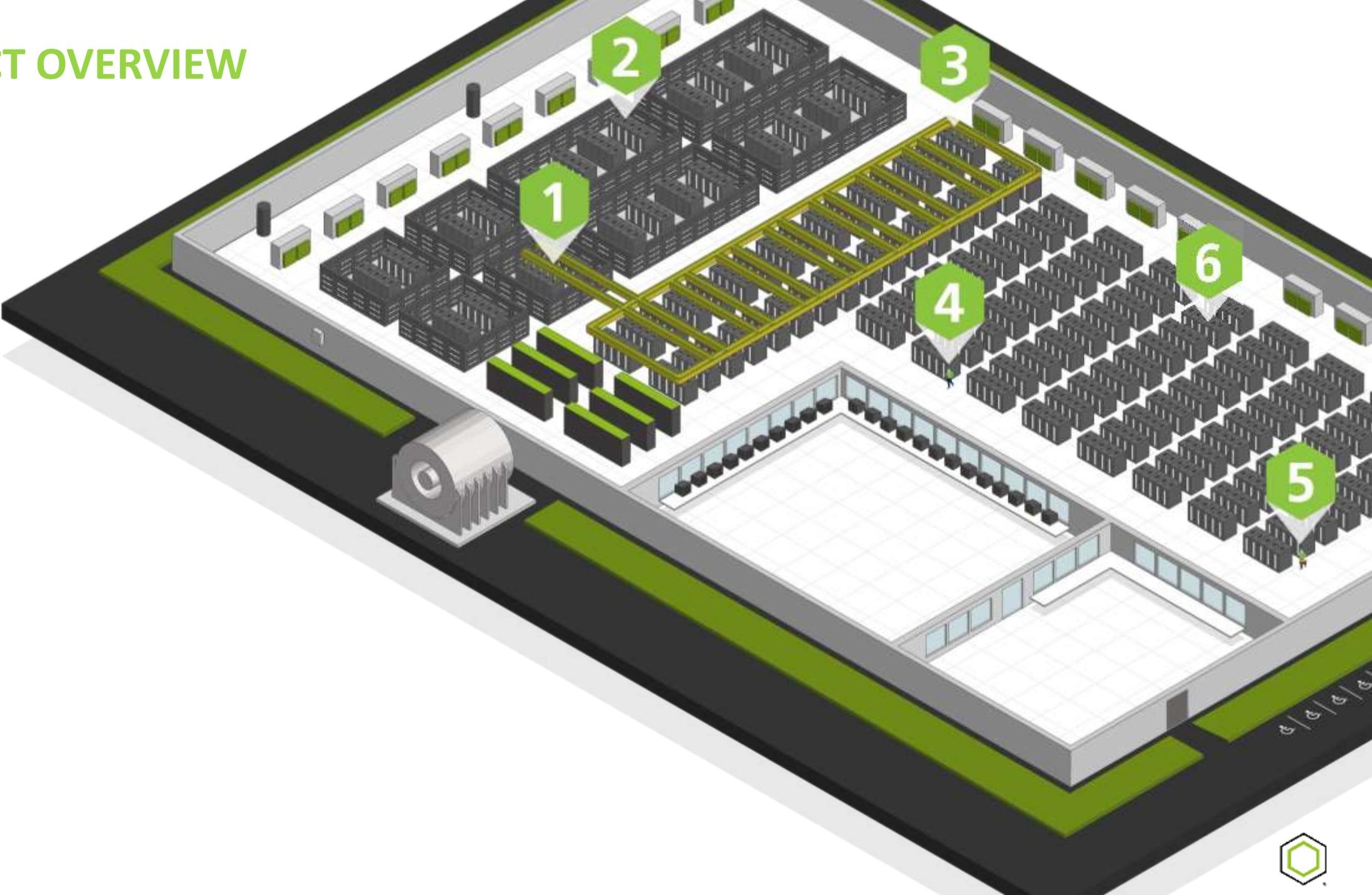


# CUSTOMER SERVICE

HERE TO HELP



# PRODUCT OVERVIEW



AFL HYPERSCALE.

# Ultra-High Density Solutions

# Ultra-High Density Introduction



**HIGH  
PERFORMANCE**



**FLEXIBLE  
CONFIGURATIONS**



**MIGRATES  
EASILY**



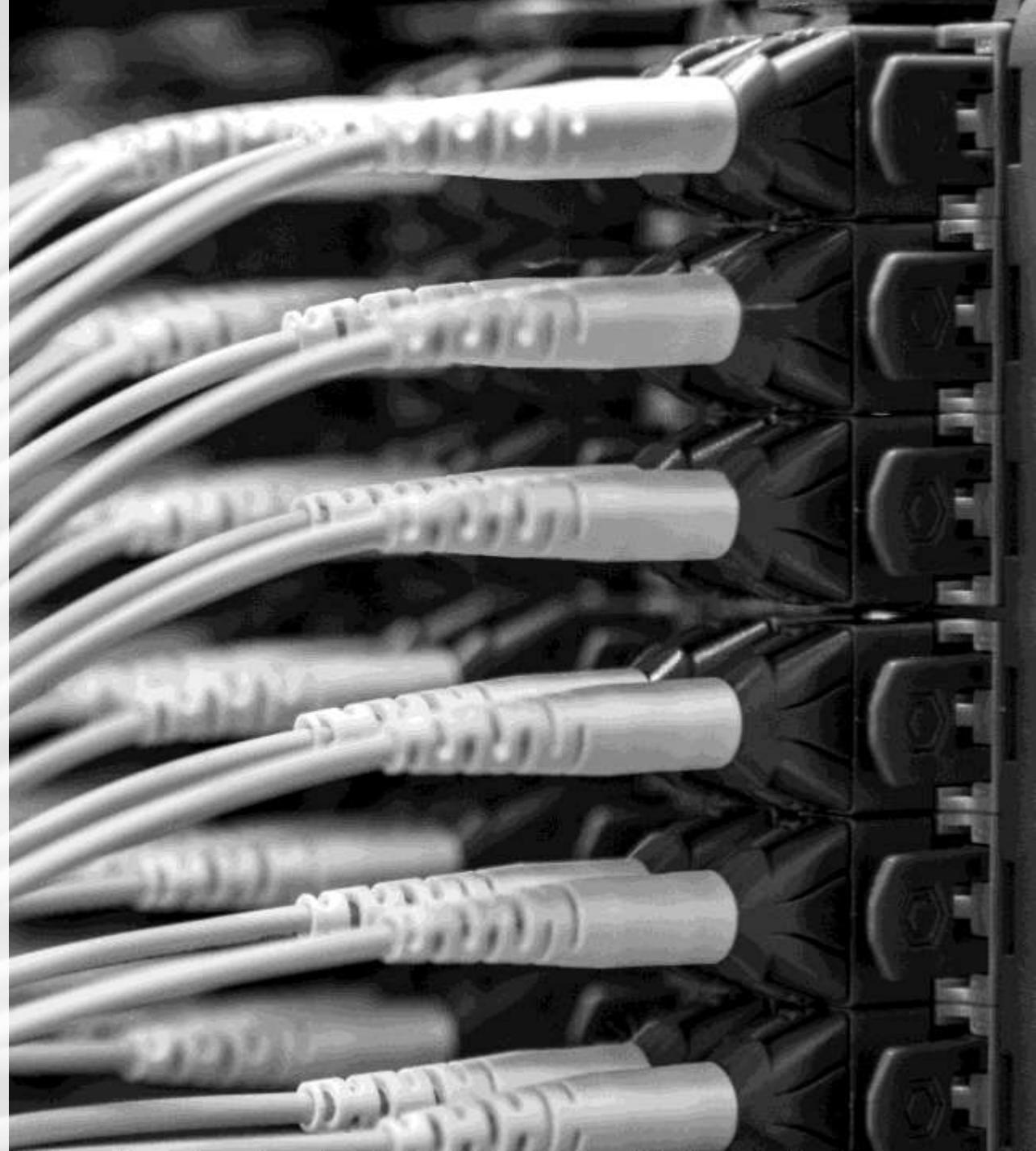
**REDUCED  
INSTALLATION  
TIME**



**SCALABLE  
SOLUTIONS**



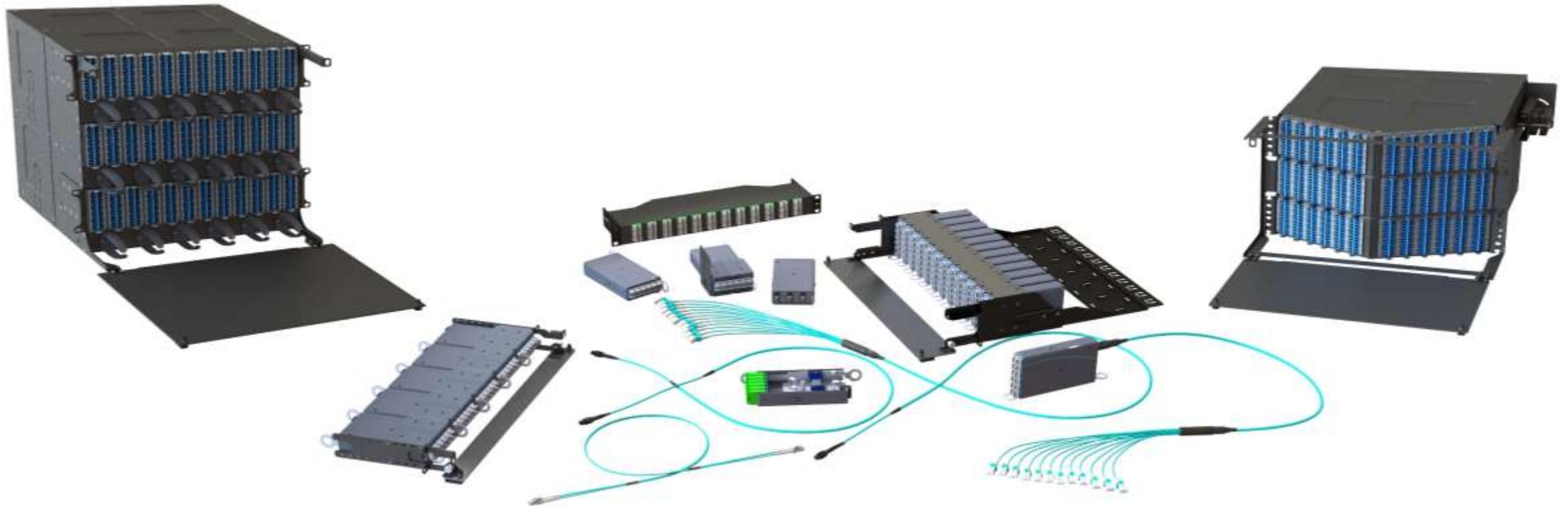
**FAST  
LEAD TIMES**



# Ultra-High Density Introduction

The AFL Hyperscale UHD Solution is as easy as A, B, C

**A: Assemblies**   **B: Building Blocks**   **C: Chassis**





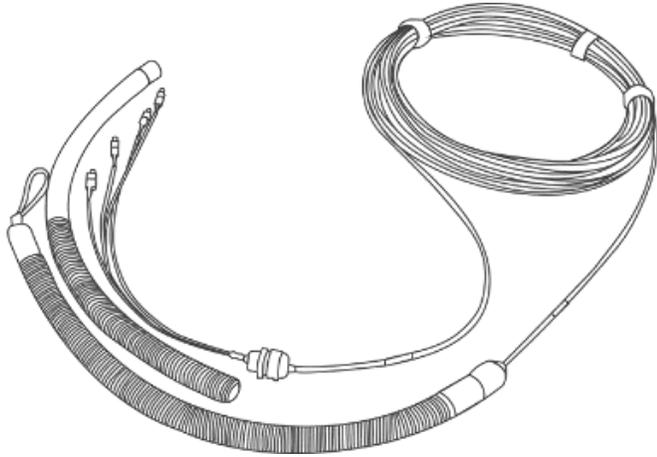
## Assemblies

We recommend using pre-terminated assemblies whenever possible.

Get the exact assemblies you require with our easy to use configurators, and save up to 75% installation time by alleviating the need for field terminations or splicing



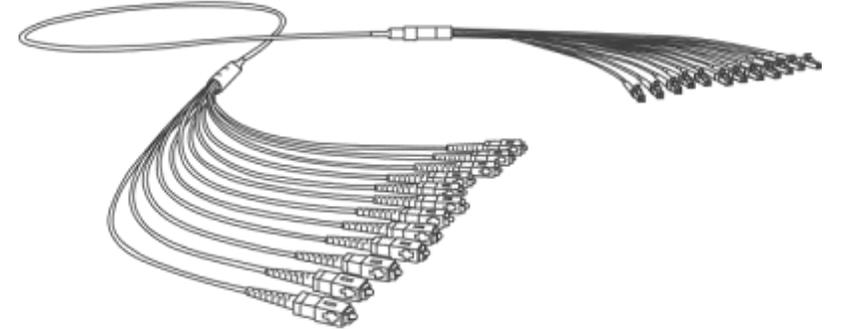
# A: Assemblies – Overview



**Multi-Fiber  
Assemblies**

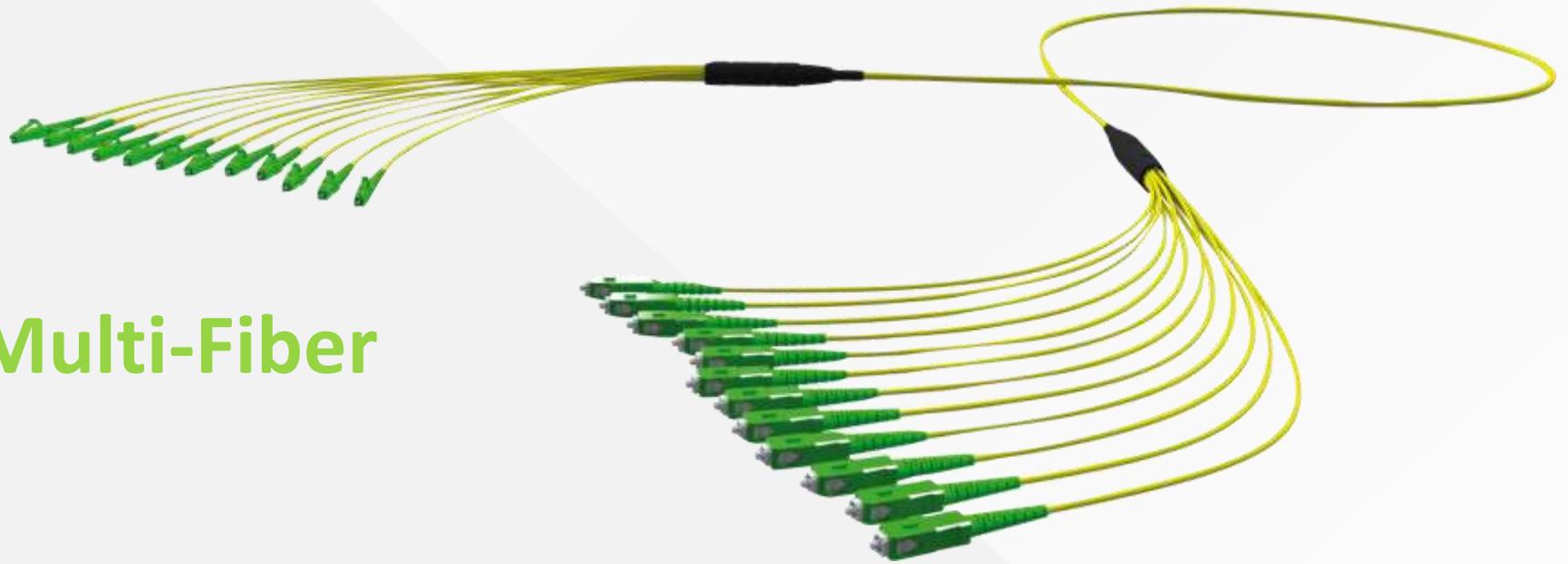


**Patch Cords**



**High-Fiber Count  
Assemblies**





# A: Assemblies

## Pre-terminated Multi-Fiber Assemblies



High Performance



High Density



Quick to Install



Customizable Configurations



Factory Terminated



100% Tested



CPR Compliant

# Configure your Pre-Terminated Assembly



**1** Select your Connector

**2-288**  
FIBRE COUNT

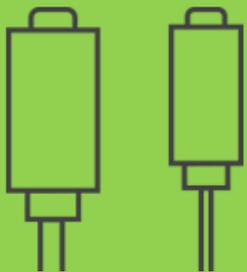
**2** Choose your Fiber Count

MULTIMODE  
SINGLE MODE

**3** Select your Fiber Type



**4** Cable Construction



**5** Decide your Tail Diameter



**6** Tail Length Measurement



**7** Define Tip to Tip Length



**8** Deploy Quickly



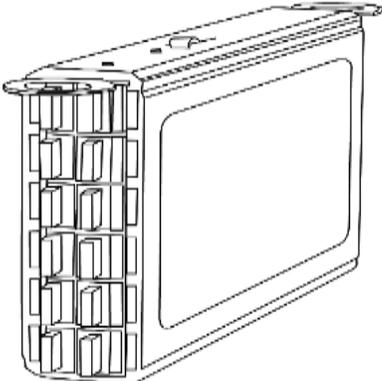
# B

## Building Blocks

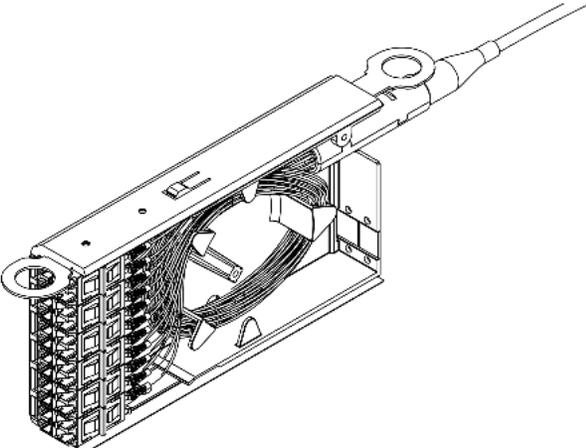
Easy to install and quick to connect, UHD Modules and Adapter Plates are readily available in a number of different configurations for a number of different applications.



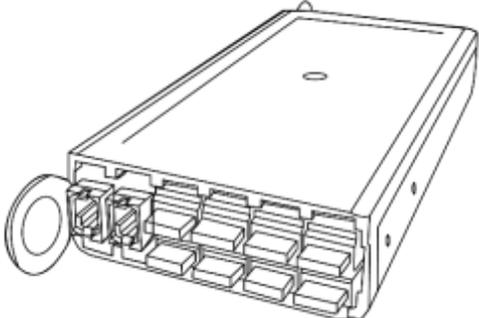
# B: Building Blocks – Overview



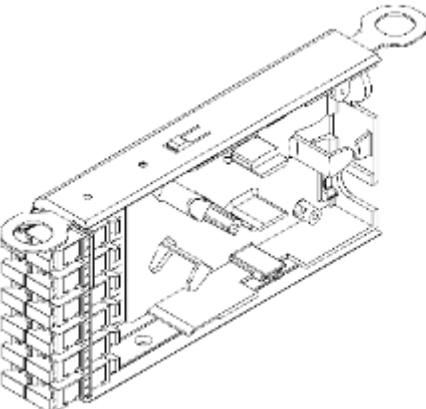
UHD MPO to LC/SC Module



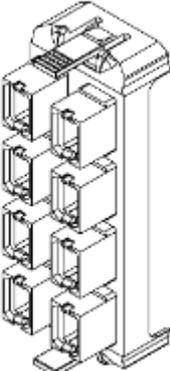
Pre-Terminated UHD Module



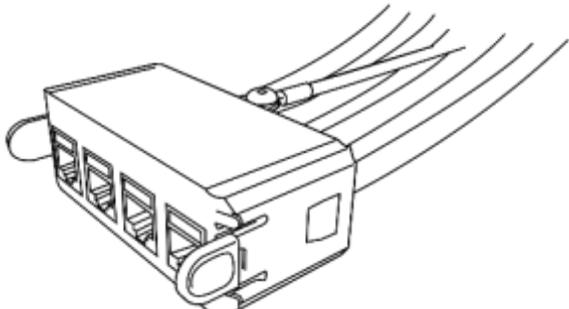
Base-8 UHD MPO to LC Module



UHD Splice Module



UHD MPO Faceplate



UHD Copper Module

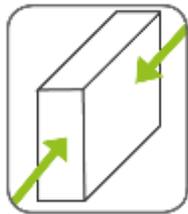


# B: Building Blocks

## UHD Module



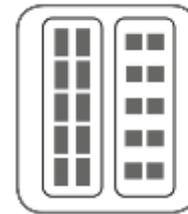
Easy Module  
Access



Front and  
Rear loading



Service  
Latch



Up to 24 LC  
Up to 12 SC



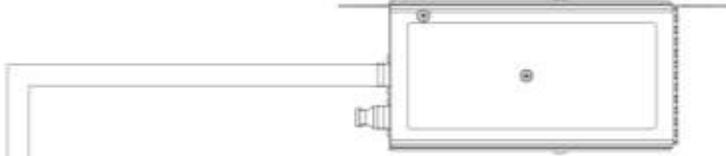
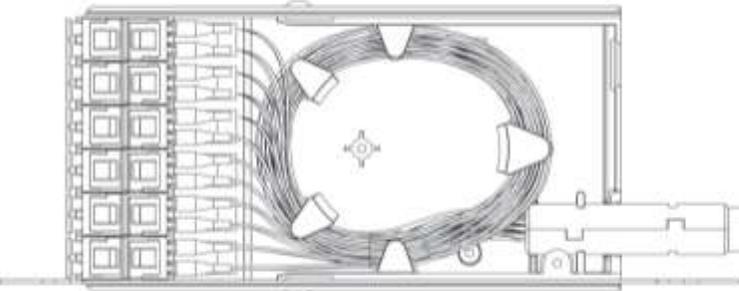
Shuttered LC Adaptors  
for Cleanliness and  
Laser Safety



Easy Module lock  
and release  
Mechanism

# B: Building Blocks

## Pre-Terminated UHD Module



**Pre-Terminated Module to Module**



**Pre-Terminated Module to MPO connectors**



**Pre-Terminated Module to individual connectors (2mm or 900um tail diameter)**



**Pre-Terminated Module to open cable for splicing on site**





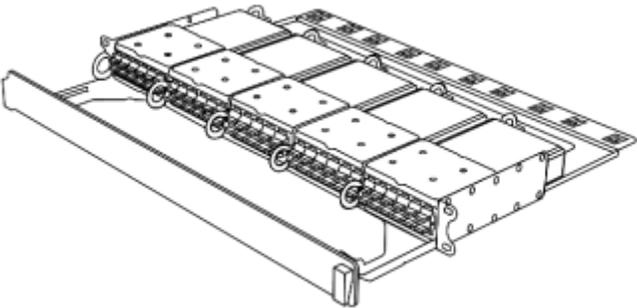
## Chassis

UHD chassis, frames, and panels maximize the full potential from your available space.

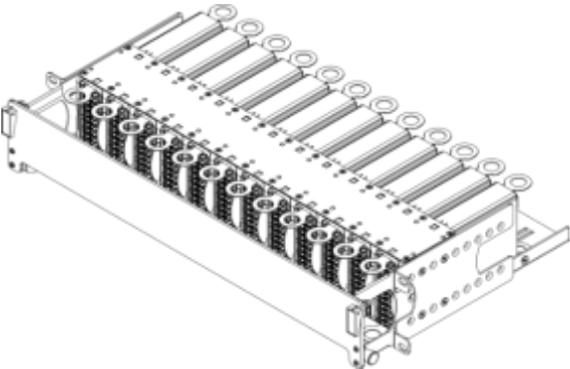
Modular and accessible, our UHD management solutions facilitate quick deployments, easy Moves, Adds and Changes (MACs) and provide potential to scale.



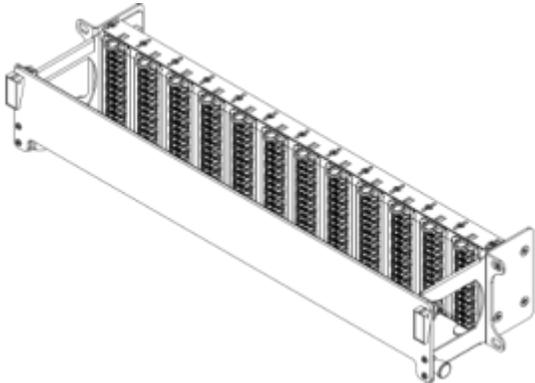
# C: Chassis— Overview



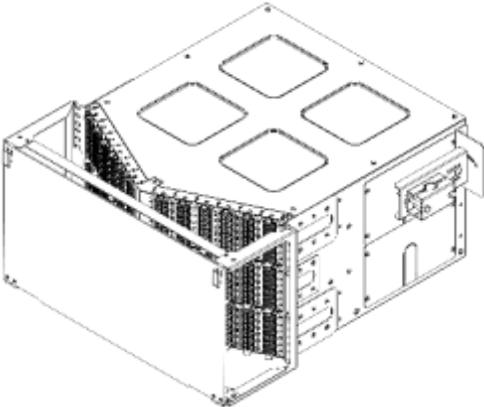
**UHD 1U**  
**Modular Chassis**



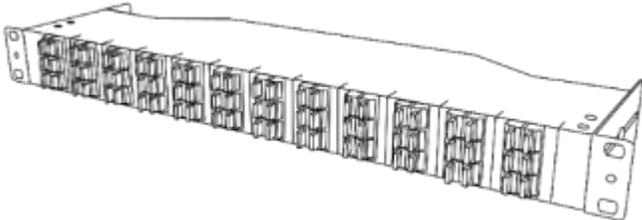
**UHD 2U**  
**Modular Chassis**



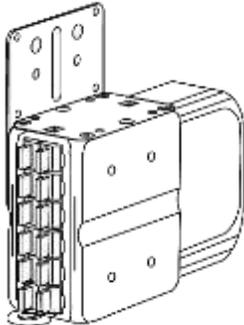
**UHD 2U Modular**  
**Patching Frame**



**UHD 6U Splice**  
**and Patch Frame**



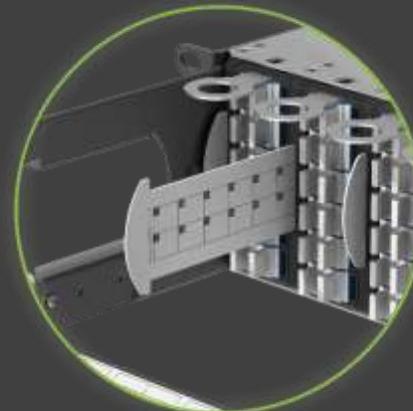
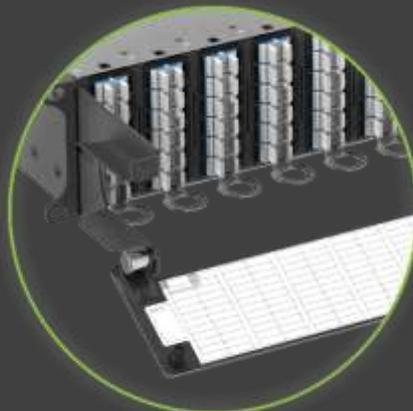
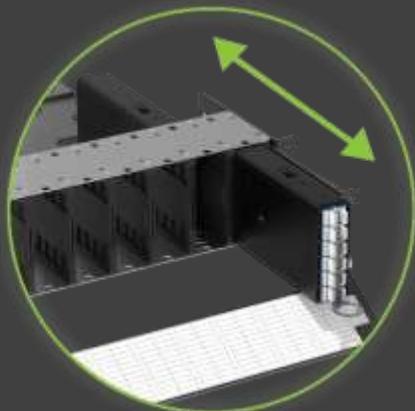
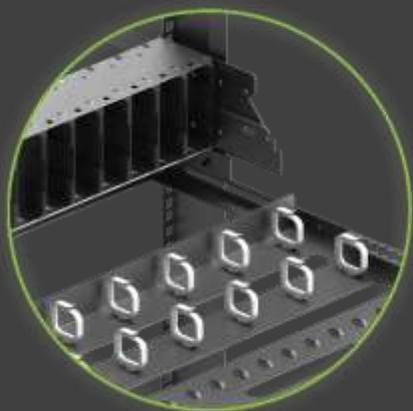
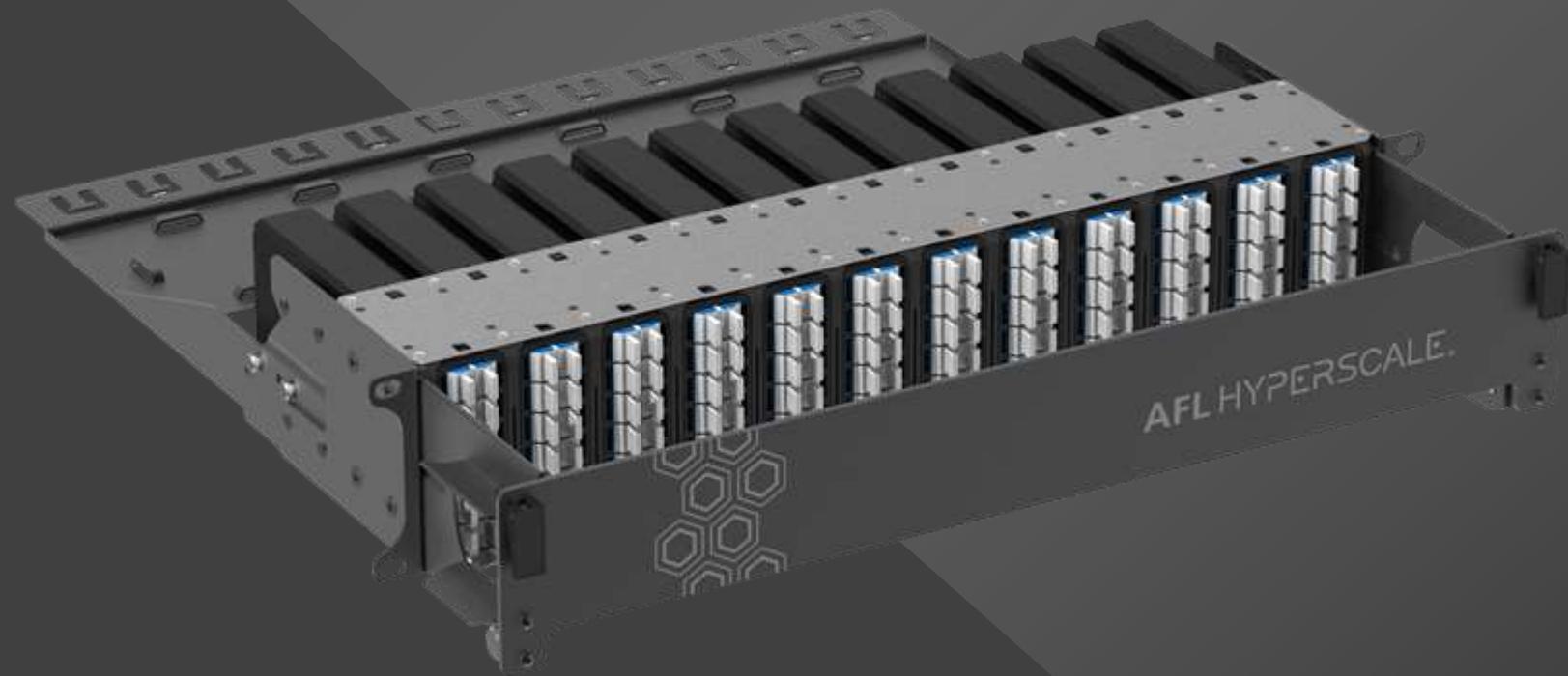
**UHD 1U 144F**  
**Slimline Panel**

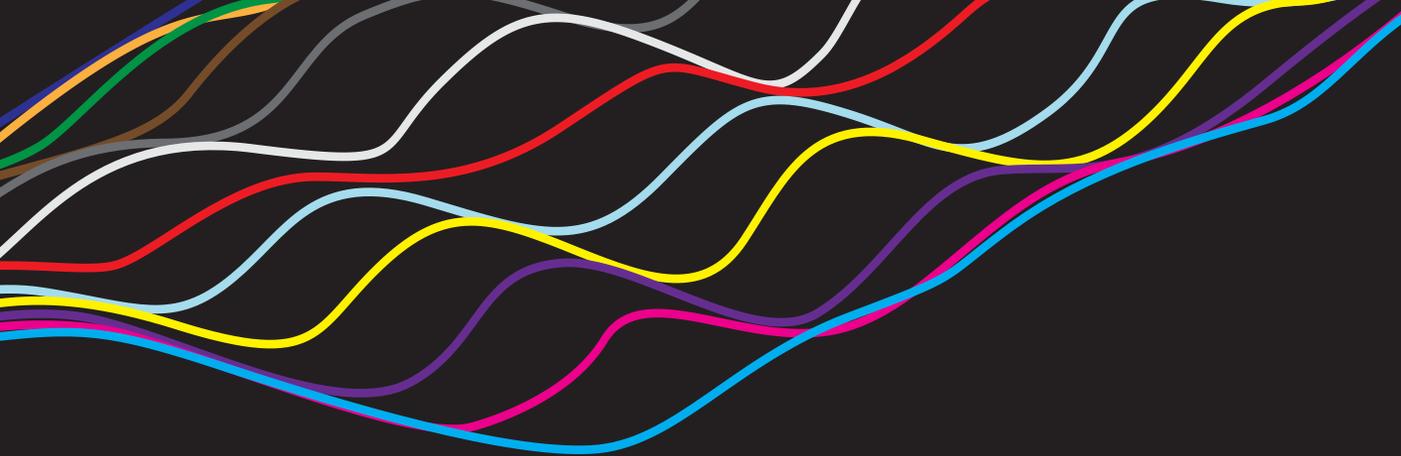


**UHD 0U**  
**Chassis**



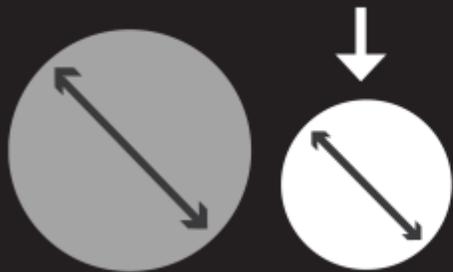
C: Chassis  
2U UHD Chassis





## SpiderWeb<sup>®</sup> Ribbon

Up to  
**6912**  
easy to manage fibers  
in one cable



Up to  
**44%**  
smaller diameter to  
similar fiber counts

**40%**

reduction on  
installation time from  
cable preparation to  
mass splicing



Mass fusion splice  
12 fibers at a time

or



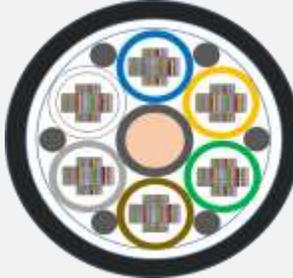
Single splice

More than  
**73%**

lighter than today's  
ribbon cables



# SPIDERWEB® RIBBON

Fiber Counts	1,152f WTC	1,728f WTC	3,456f WTC	1728 Ribbon Loose
Cross sectional view				
Diameter	18.3mm	22.7mm	30.0mm	35.0mm



# Supporting Products



Fujikura  
Splicers



MPO Splice-On  
Connectors



Cleaning



Test and  
Inspection





**THANK YOU**

Please feel free to ask any questions

