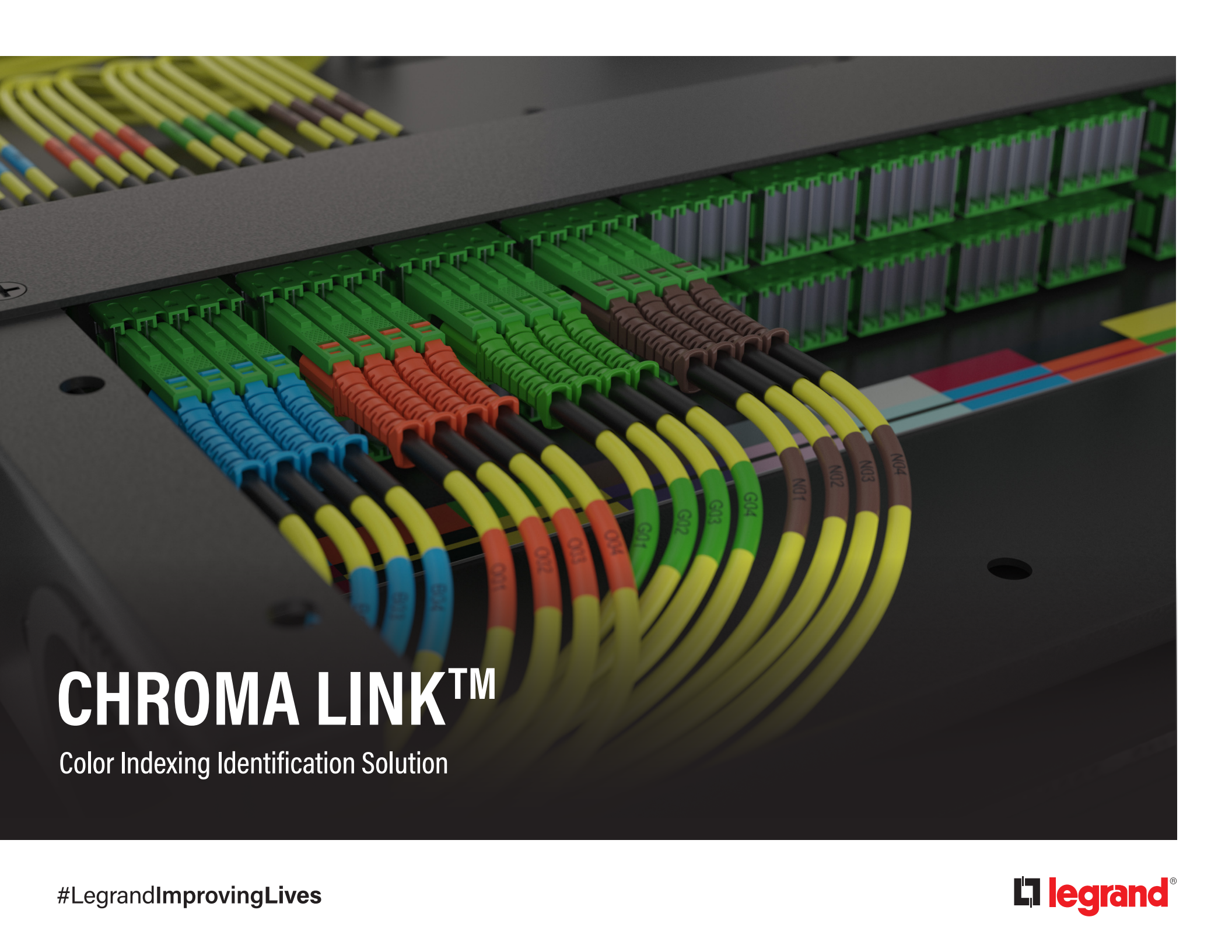


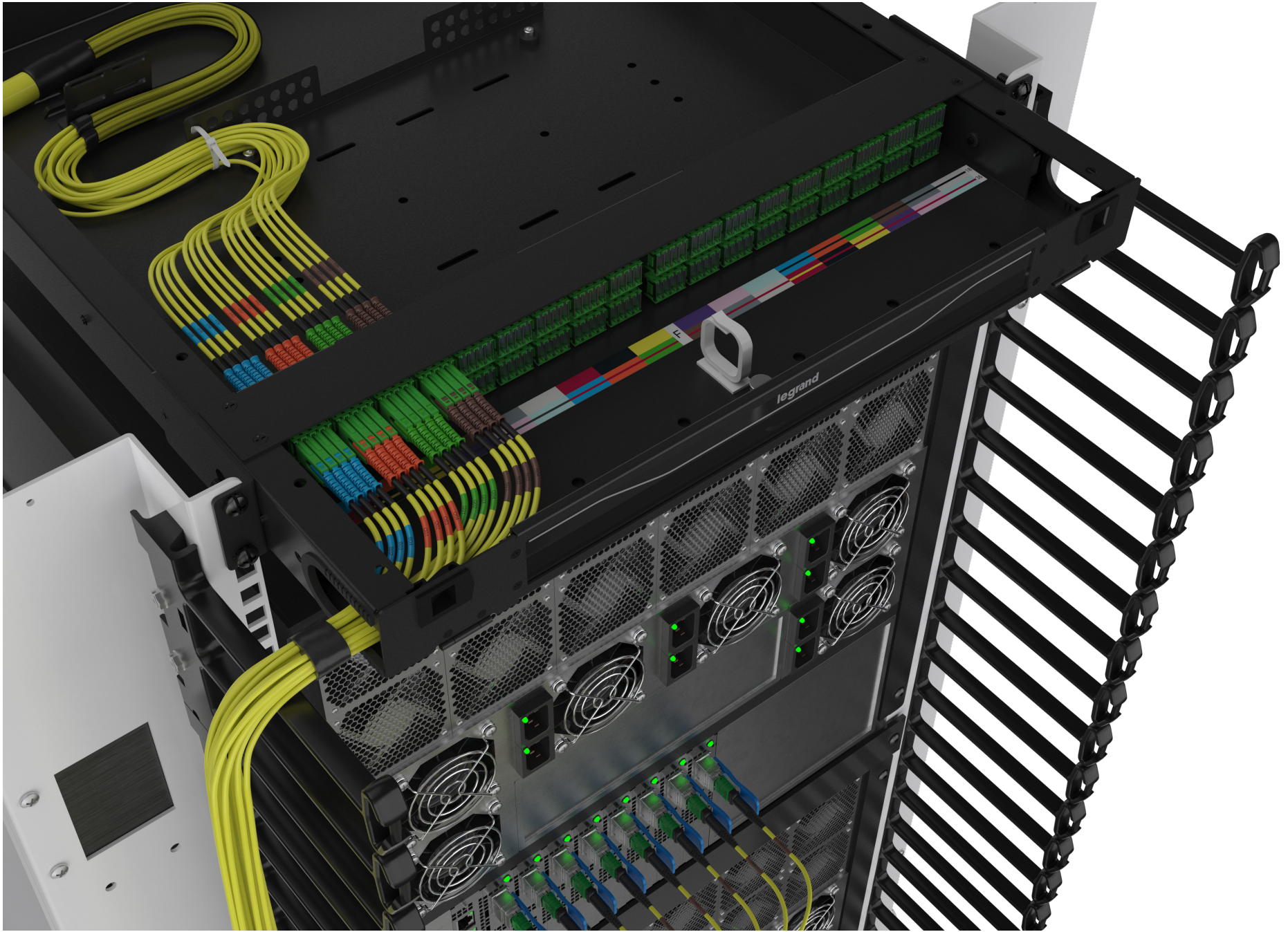


CHROMA LINK™

Color Indexing Identification Solution

#LegrandImprovingLives

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CHROMA LINK™

Chroma Link™ is a patent pending color-indexing solution that delivers instant visual clarity for fiber connectivity. Built on the familiar TIA-598 standard color scheme, it provides an intuitive visual guide that makes identifying, tracing, and managing connections fast and error-free.

Each color is precisely aligned to its corresponding connector based on its position within the adapter panel, eliminating guesswork during installation and maintenance. The result is a clearly defined, end-to-end, color-mapped connectivity pathway that simplifies troubleshooting, accelerates moves, adds, and changes, and reduces the risk of human error. Chroma Link also integrates seamlessly with existing asset management systems, enhancing visibility and control without disrupting current workflows.

BENEFITS

- **Color-Indexing:** Simplify and speed up deployment with the patented end-to-end color and labeling schema, an intuitive visual guide that enables fast and error-free identification, tracing, and management.
- **Gang Clips:** Up to 4x faster trunk install with SN-MT (16 Fiber) ganged clips enabling a single plug-in to make 4 connections (64 fibers). Connectors are ganged based on color-index to further simplify. And patching is simply matching color-index and ensuring numerical order.
- **Hyper-Density:** 4x improvement in space utilization compared to the highest density modular MPO based enclosure systems. Achieves 2,304 fibers per RU Vs. other manufacturer enclosures 576 fibers per RU.
- **Chroma Kitting:** Ease of installation starts at unboxing. Chroma Link components are packaged to ensure efficient unboxing, staging, and installation preparation.

Note: All colors may vary from actual product colors due to monitor or print color rendering.

SOLUTION COMPONENTS

Chroma Link Hyper-Density Enclosures

STANDARD FEATURES

- Chroma Link color-indexing labels
- Front/Rear removeable top panels
- Cable management and routing options (Left, Right, or Top)
- Multi-position sliding drawer offers easy access to cables
 - Position 1 : Fully in - used for trunk plugging if the top of the cabinet is accessible
 - Position 2: Tray halfway out - used for front patching
 - Position 3: Full tray out - for additional access and troubleshooting
- Lexan window in the front door for easy visual identification and enhanced aesthetics



2RU HYPER-DENSITY ENCLOSURE

- The 2RU enclosures come with magnetic labels at the front and at the rear to ensure the proper identification of every four-port adapter.

Density

- 72 SN-MT Four-Port Adapters
- 288 SN-MT Ports
- 4608 Fibers (16F per connector)

1RU HYPER-DENSITY ENCLOSURE

- The 1RU enclosures come equipped with a total of four sets of magnetic labels: two sets for the identification of adapter ports 1-36, and two for adapter ports 37-72.

Density

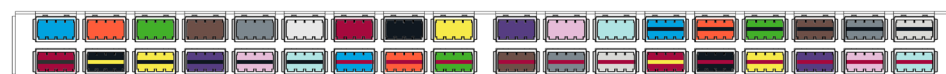
- 36 SN-MT Four-Port Adapters
- 144 SN-MT Ports
- 2304 Fibers (16F per connector)

SOLUTION COMPONENTS

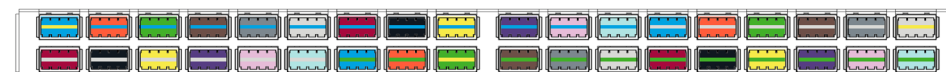
Chroma Link Hyper-Density Enclosures



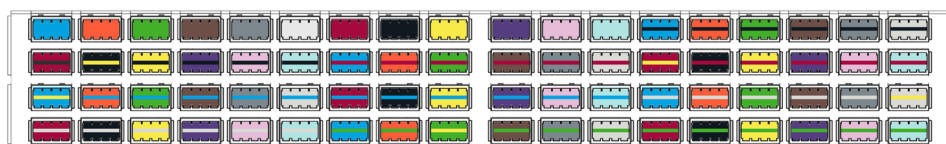
1U Hyper-Density Chroma Link Enclosure (Ports 1-36)



1U Hyper-Density Chroma Link Enclosure (Ports 37-72)



2U Hyper-Density Chroma Link Enclosure (Ports 1-72)



SOLUTION COMPONENTS

Chroma Link Trunk Assembly

CABLE CONSTRUCTION

- 256 fiber cable (200 µm)
- 16F per subunit, 2.0mm subunit OD
- 4 subunits per bundle
- 4 bundles per trunk bundled and ganged by color index
- Configurable Length

Connector: SN-MT

Performance: Ultra-Low Loss

Pin: Pinned (Standard); non-pinned (Available)

Polish: APC

Polarity: Type A (Standard); Type B (Available)

ORGANIZATION AND INSTALL

- Mesh tubing bundles each set of 4 legs that coordinate colors, simplifying placement and management.
- A gang clip is placed on each set of four connectors, simplifying into a single plug-in for all four connectors.

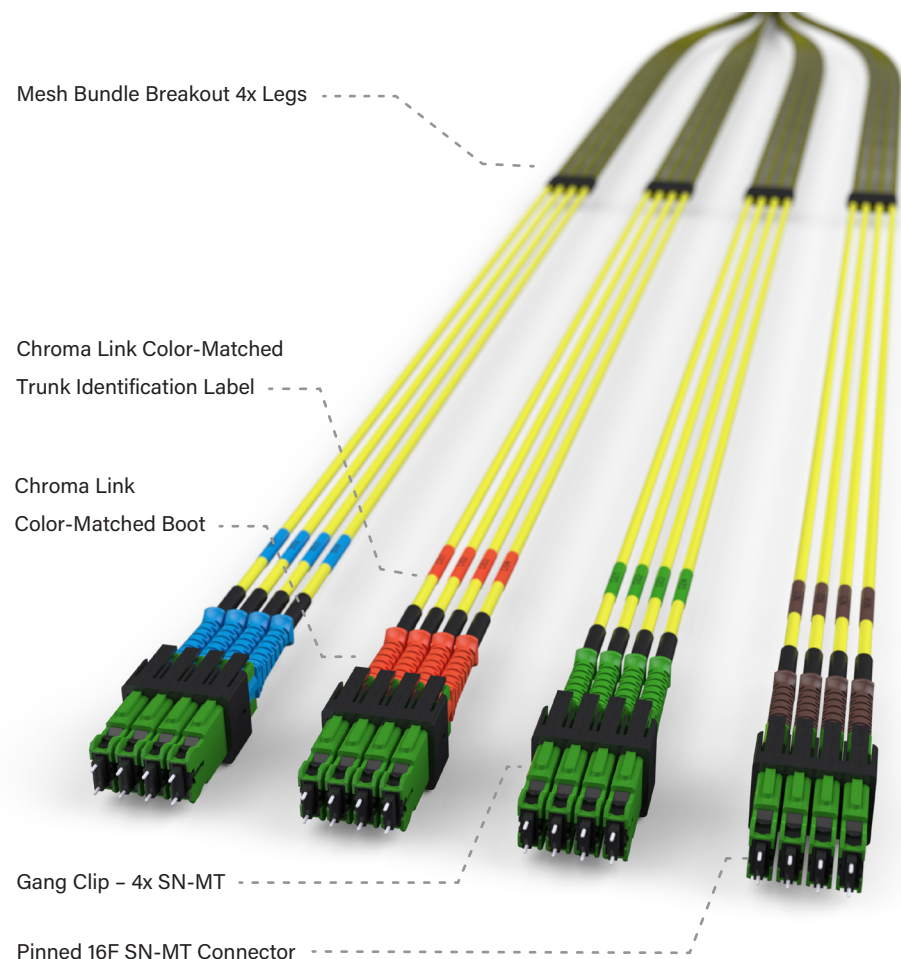
LABELS AND COLOR INDEXING

- Unique 3-character label (e.g. B01); each character, in order, indicates color, stripe, and port number.
- Each subunit has a color boot that matches the color label, which is used to identify the color port in the adapter panel.



SOLUTION COMPONENTS

Chroma Link Trunk Assembly



Trunk Label Identification



Label Color

B =	BLUE
O =	ORANGE
G =	GREEN
N =	BROWN
S =	SLATE
W =	WHITE
R =	RED
K =	BLACK
Y =	YELLOW
V =	VIOLET
P =	ROSE
A =	AQUA

Stripe Color

0 =	NO STRIPE
(ZERO)	
K =	BLACK
R =	RED
B =	BLUE
W =	WHITE
G =	GREEN

Port Number

1 =	ONE
2 =	TWO
3 =	THREE
4 =	FOUR

SOLUTION COMPONENTS

Chroma Link Harness

CABLE CONSTRUCTION

- 16 Fiber interconnect cable (200 µm)
- 2.0mm Subunit OD (8-Fiber subunits)
- Configurable Length

Connectors: SN-MT and 2x MPO 12 (8F)

Performance: Ultra-Low Loss

Pin: Non-pinned (Standard); pinned (Available)

Polish: APC

Harness A Polarity: Type A (Standard); Type B (Available)

Harness B Polarity: Type B (Standard); Type A (Available)

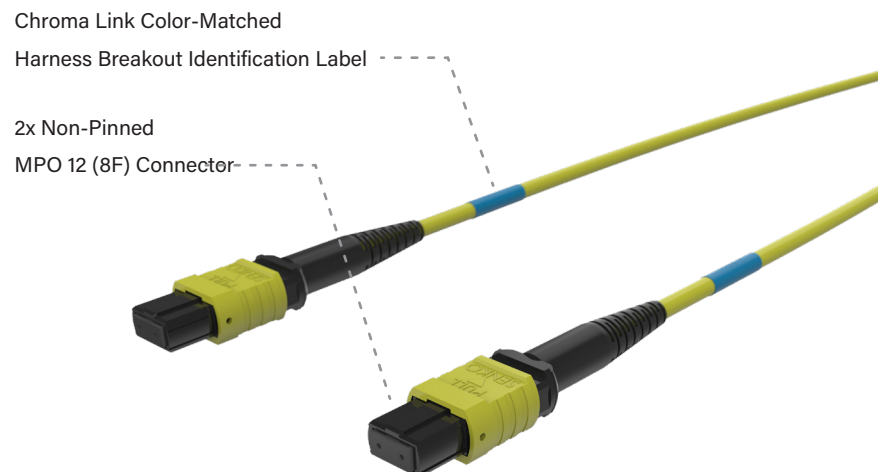
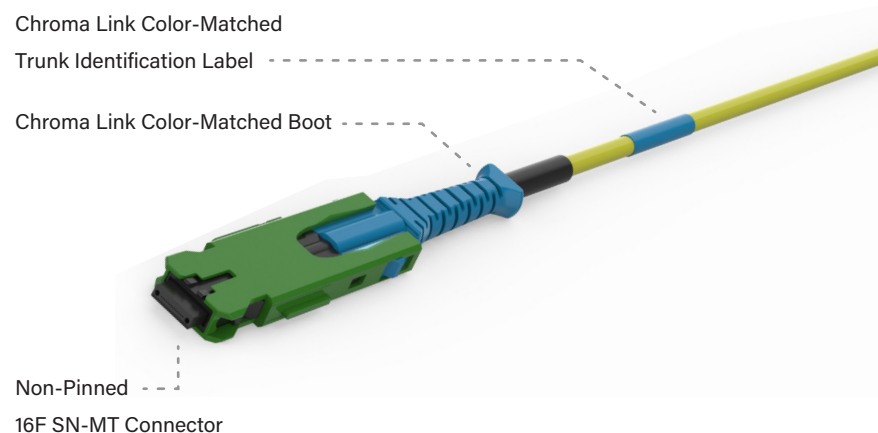


LABELS AND COLOR INDEXING

- **Labels:** Each label coordinates with the adapter placement in the enclosure and the trunk.
- **Side-A Connectors (MPO 12 (8F)):** Unique 4-character label (e.g. B01-1 and B01-2); each character, in order, indicates color, stripe, port number, and breakout number.
- **Side-B Connectors (SN-MT):** Unique 3-character label (e.g. B01); each character, in order, indicates color, stripe, port number.

SOLUTION COMPONENTS

Chroma Link Harness



Harness Label Identification



Label Color

B =	BLUE
O =	ORANGE
G =	GREEN
N =	BROWN
S =	SLATE
W =	WHITE
R =	RED
K =	BLACK
Y =	YELLOW
V =	VIOLET
P =	ROSE
A =	AQUA

Stripe Color

0 =	NO STRIPE
(ZERO)	
K =	BLACK
R =	RED
B =	BLUE
W =	WHITE
G =	GREEN

Port Number

1 =	ONE
2 =	TWO
3 =	THREE
4 =	FOUR

Breakout Number

1 =	ONE
2 =	TWO



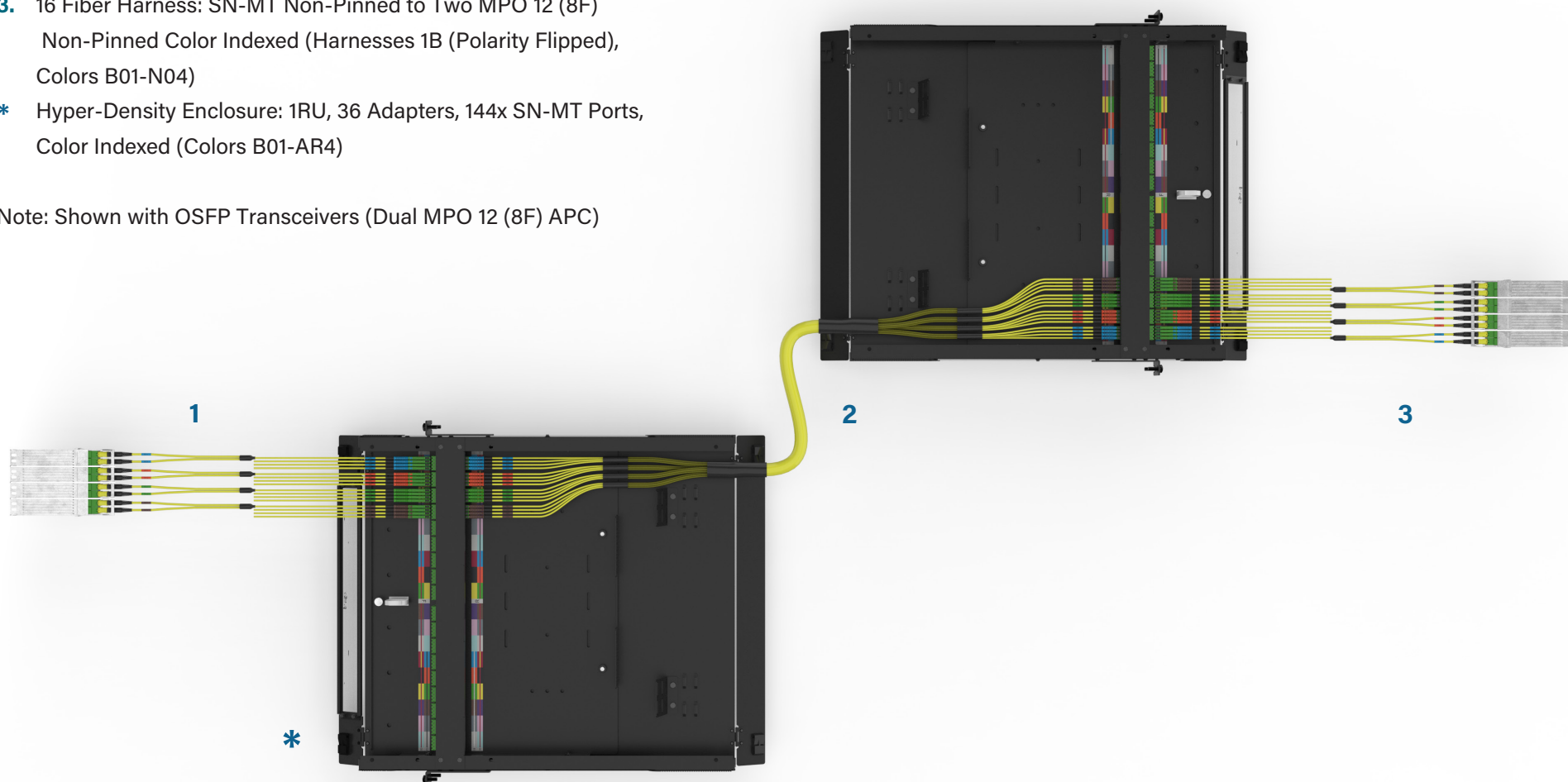
The following diagrams focus on the compute fabric, specifically node to leaf; however, Chroma Link is designed to work with any portion of the compute, storage, and in-band fabrics. All diagrams are suggestions and for demonstration of Chroma Link Color Indexing.

CHROMA LINK

End-to-End Color Indexing

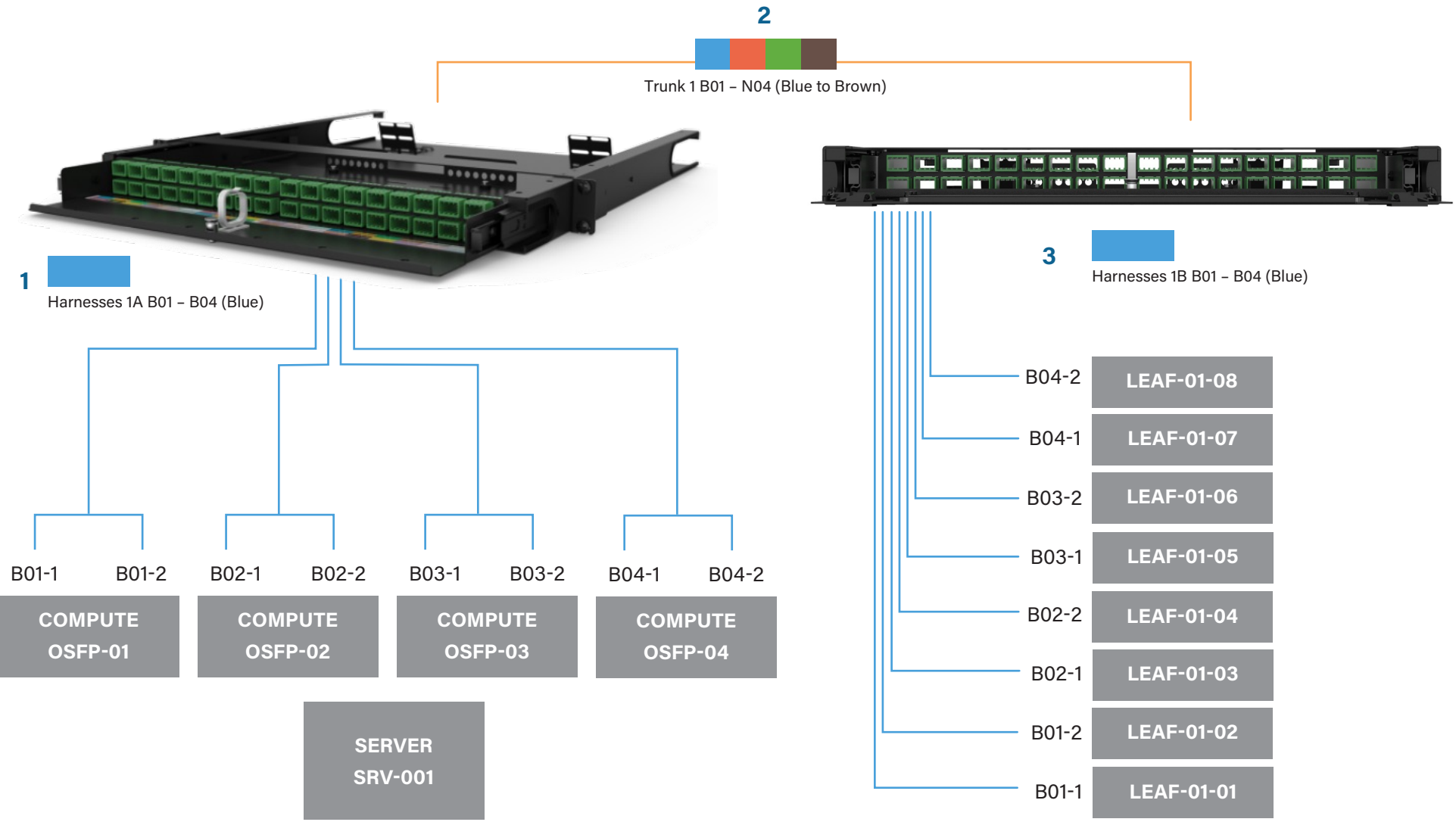
1. 16 Fiber Harness: Two MPO 12 (8F) Non-Pinned to SN-MT Non-Pinned, Color Indexed (Harnesses 1A Colors B01-N04)
2. 256 Fiber Trunk: 16x SN-MT Pinned, Gang Clipped (4x4), Color Indexed (Trunk B0N)
3. 16 Fiber Harness: SN-MT Non-Pinned to Two MPO 12 (8F) Non-Pinned Color Indexed (Harnesses 1B (Polarity Flipped), Colors B01-N04)
- * Hyper-Density Enclosure: 1RU, 36 Adapters, 144x SN-MT Ports, Color Indexed (Colors B01-AR4)

Note: Shown with OSFP Transceivers (Dual MPO 12 (8F) APC)



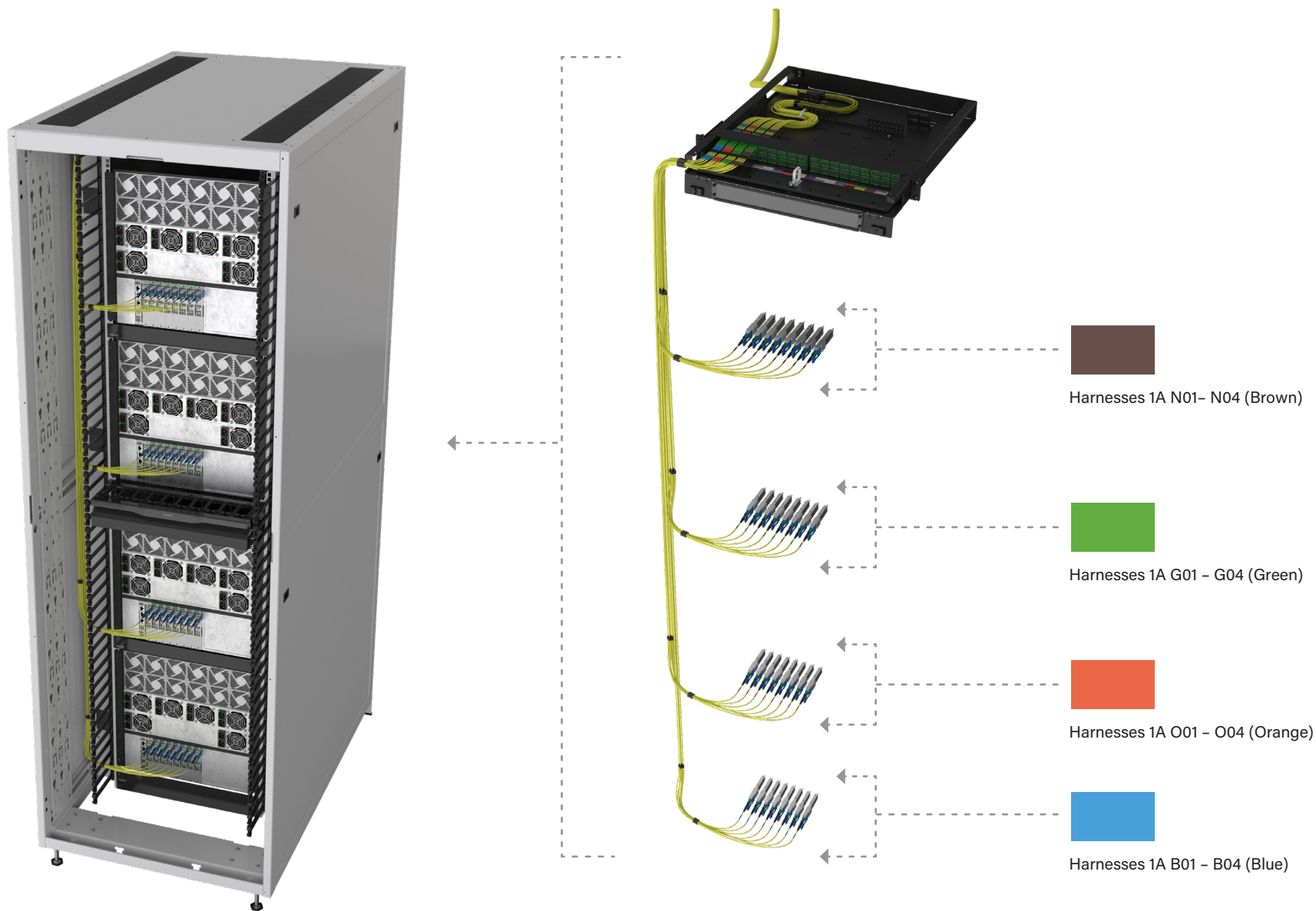
CHROMA LINK

End-to-End Color Index - Blue



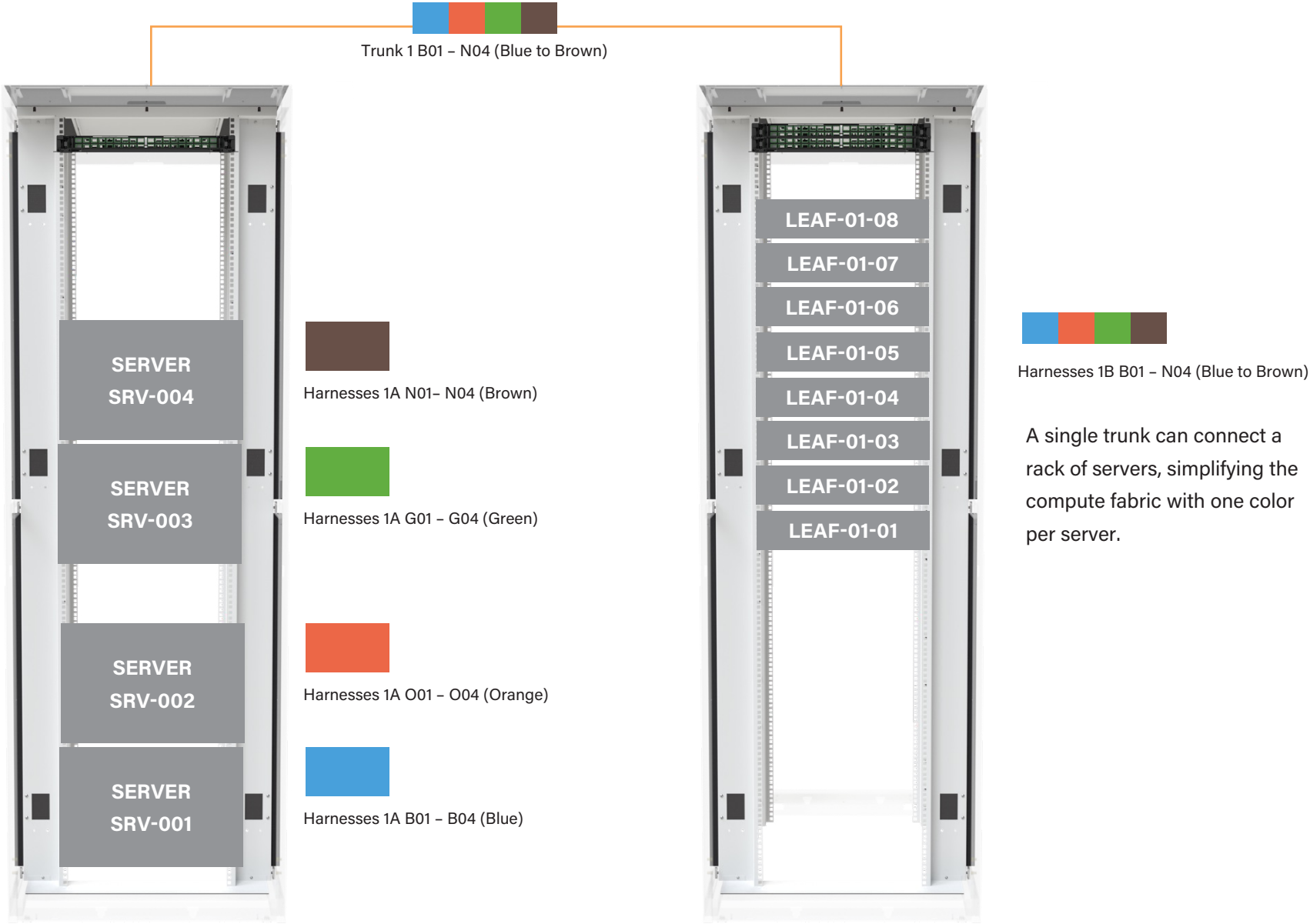
CHROMA LINK

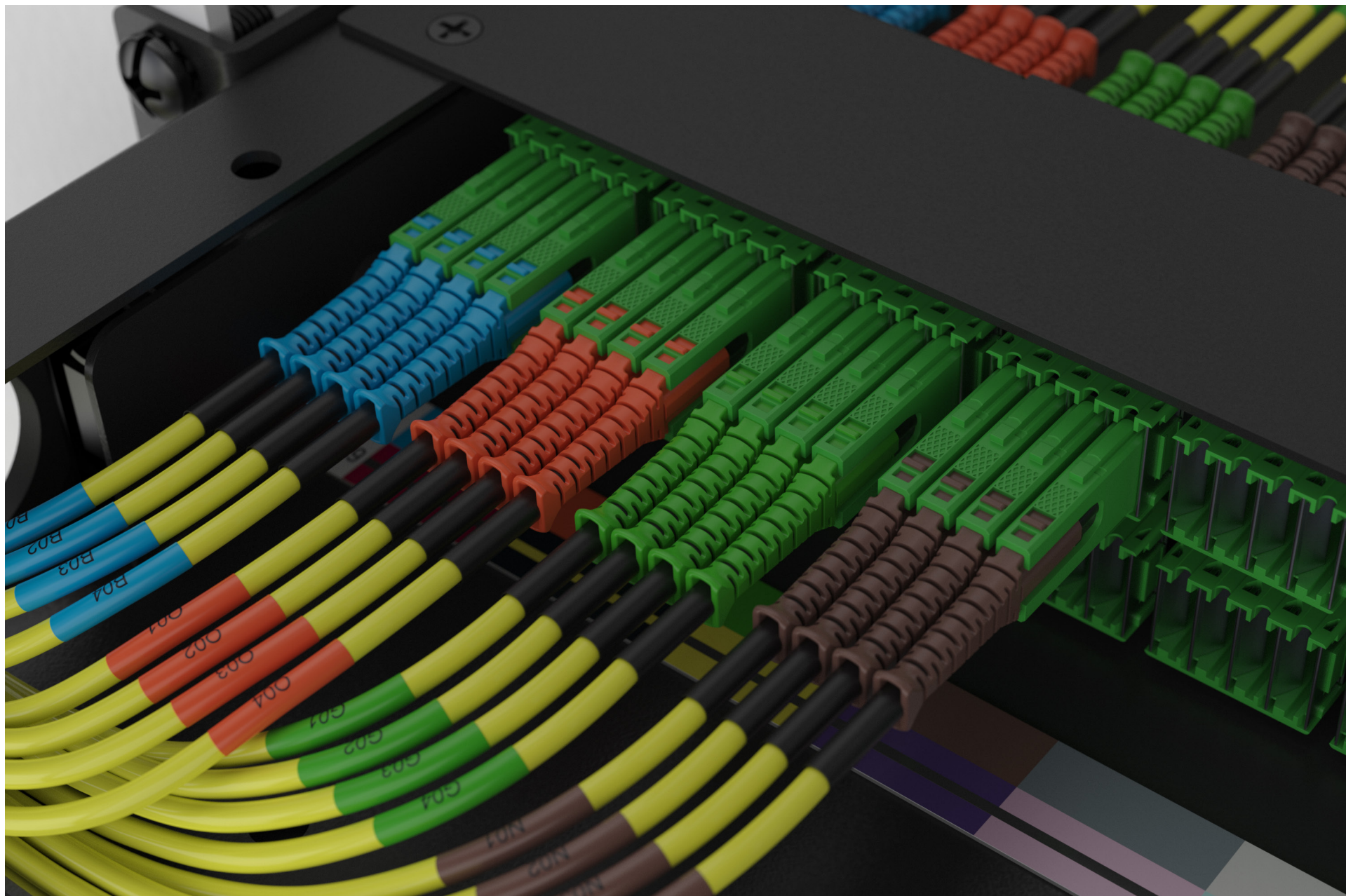
Compute Fabric



CHROMA LINK

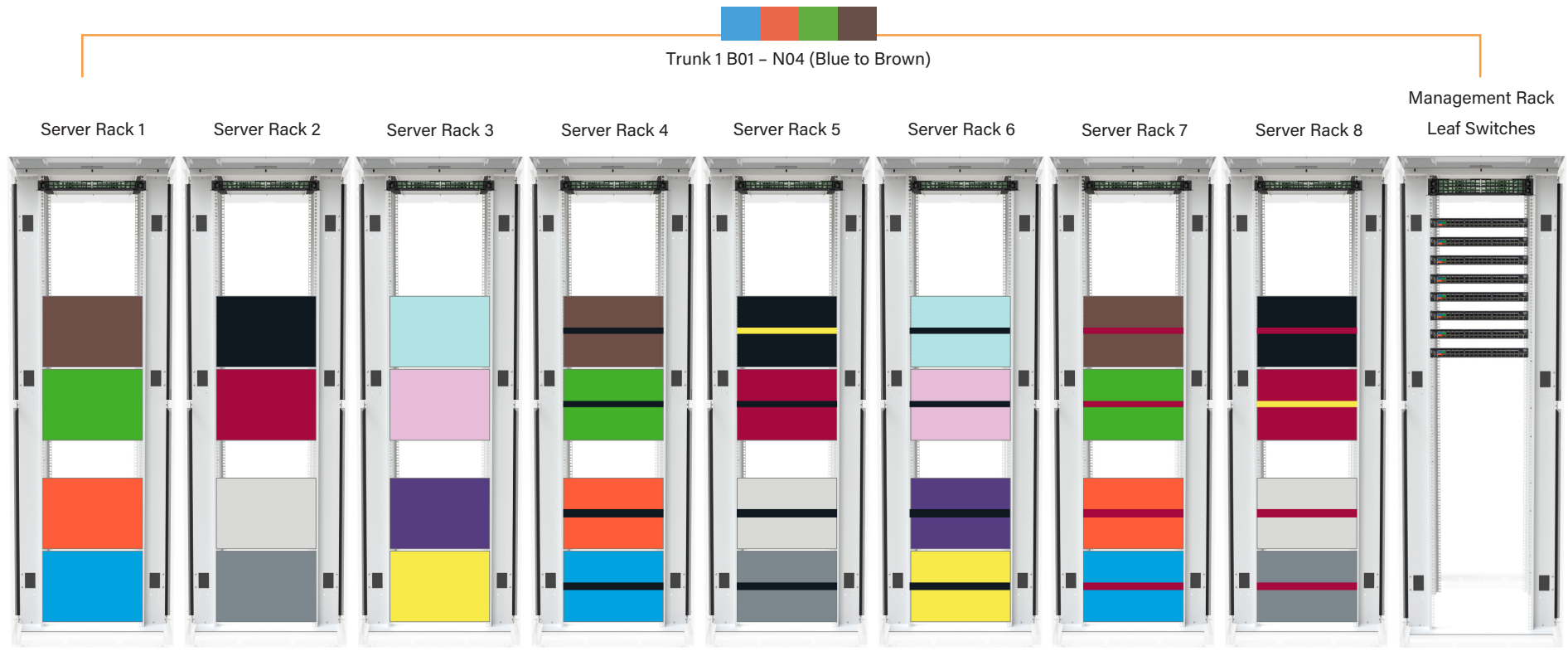
Compute Fabric – Server Rack 1 to Management Rack (Leaf Switches) B01 – N04





CHROMA LINK

Compute Fabric – Scalable Unit 1



- Harnesses 1A N01- N04 (Brown)

Harnesses 1A G01 - G04 (Green)

Harnesses 1A O01 - O04 (Orange)

Harnesses 1A B01 - B04 (Blue)
- Harnesses 1B N01- N04 (Brown)

Harnesses 1B G01 - G04 (Green)

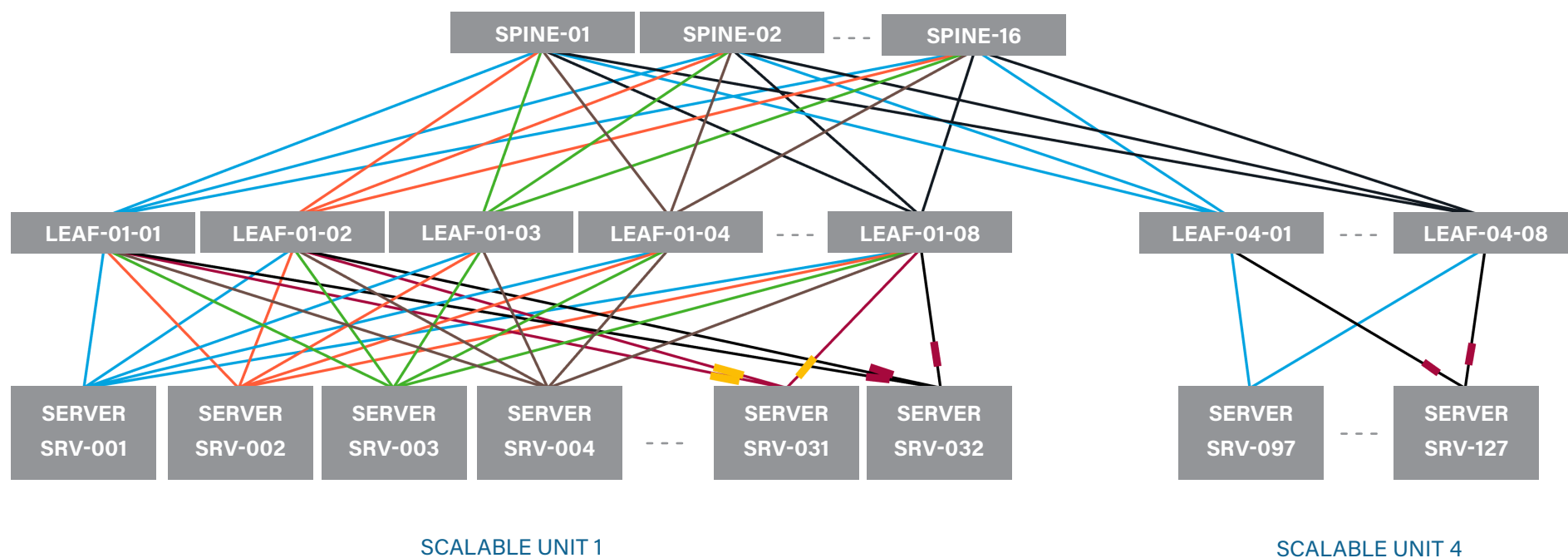
Harnesses 1B O01 - O04 (Orange)

Harnesses 1B B01 - B04 (Blue)

Utilizing the same methodology, Chroma Link's color indexing provides a clear visual guide to identify, trace, and connect each server to the switches of a scalable unit faster, more simply, and error free.

CHROMA LINK

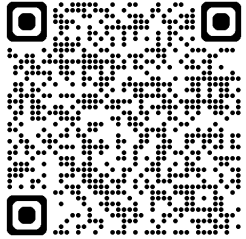
Color Indexed Compute Fabric



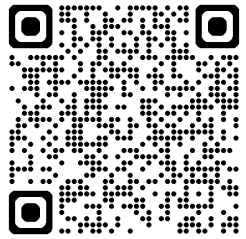
Chroma Link is perfectly suited to the compute fabric, but is also excellent for storage, and in-band management fabrics, utilizing the same color-indexing method. Chroma Link has been designed to grow as the network grows and adapt to future hardware demands.

CHROMA LINK

Ordering and Support



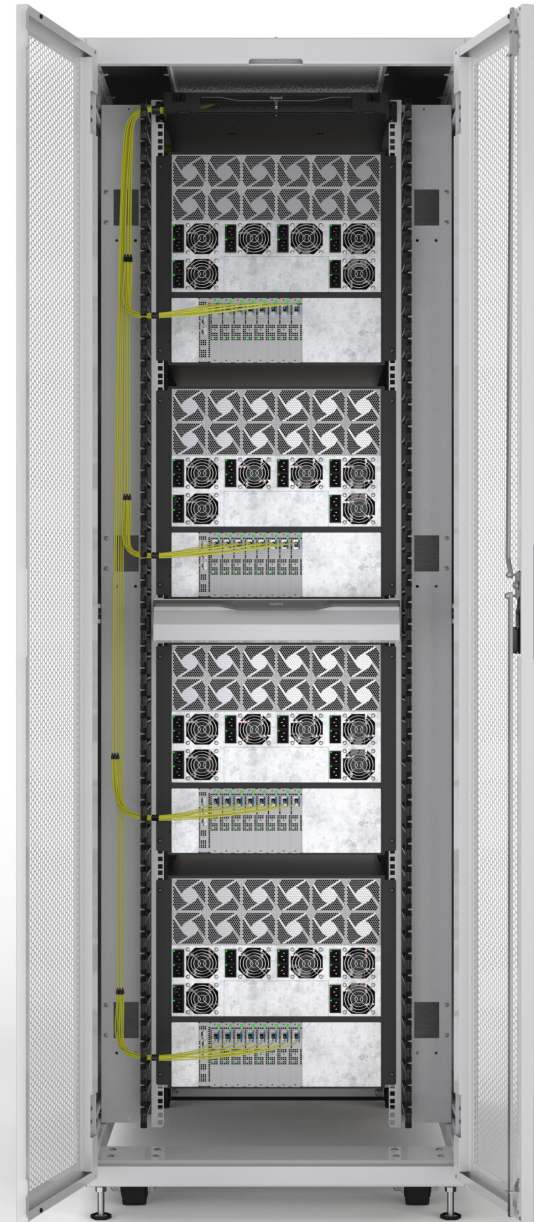
To learn more about the Chroma Link solution:
<https://www.legrand.us/network-infrastructure/fiber-optic/chroma-link-color-indexing-system>

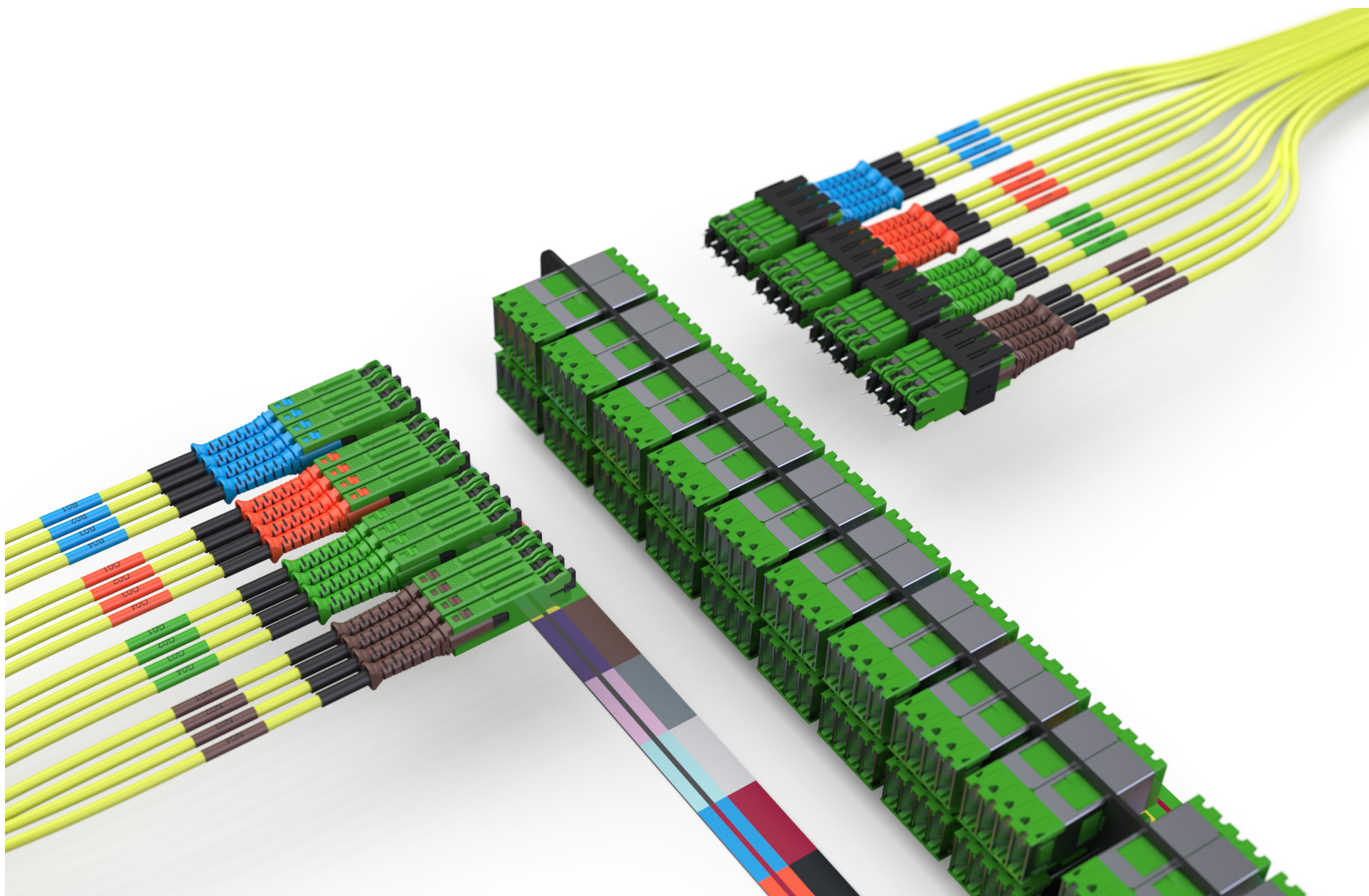


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