



# FDH 5000 Fiber Distribution Hub cabinet

Faster, easier, more cost-efficient fiber rollouts everywhere

COMMScope®

# Broadband for everyone

Broadband has become so critical to society that it is now known as the “fourth utility.” Yet less than half of all global households have a fixed broadband connection. That number represents people and complete communities that are unable to connect—to critical health care services, educational resources, remote work, the digital economy, and each other. For network operators, now is the time to bring broadband to everyone, in every community, no matter where.

## Funding is available—but challenges still exist

In many areas, building out broadband networks isn't economically feasible. Low population densities, long distances, and aging infrastructure are making it difficult to generate adequate returns on broadband investments. That's why global governments and municipalities are creating programs that offer billions in funding to extend broadband to underserved communities.

However, that still might not be enough. Even with this influx of funding, the economics don't always work. Service providers are often challenged by issues that can slow down and even derail network projects.

- **Difficulties procuring the right supplies**

Due to manufacturing and supply chain issues, fiber enclosures, hardened terminals, fiber cabling and other essential items are proving very hard both to procure in the required quantities and have them delivered at the right time.

- **Delays due to lengthy permitting approvals**

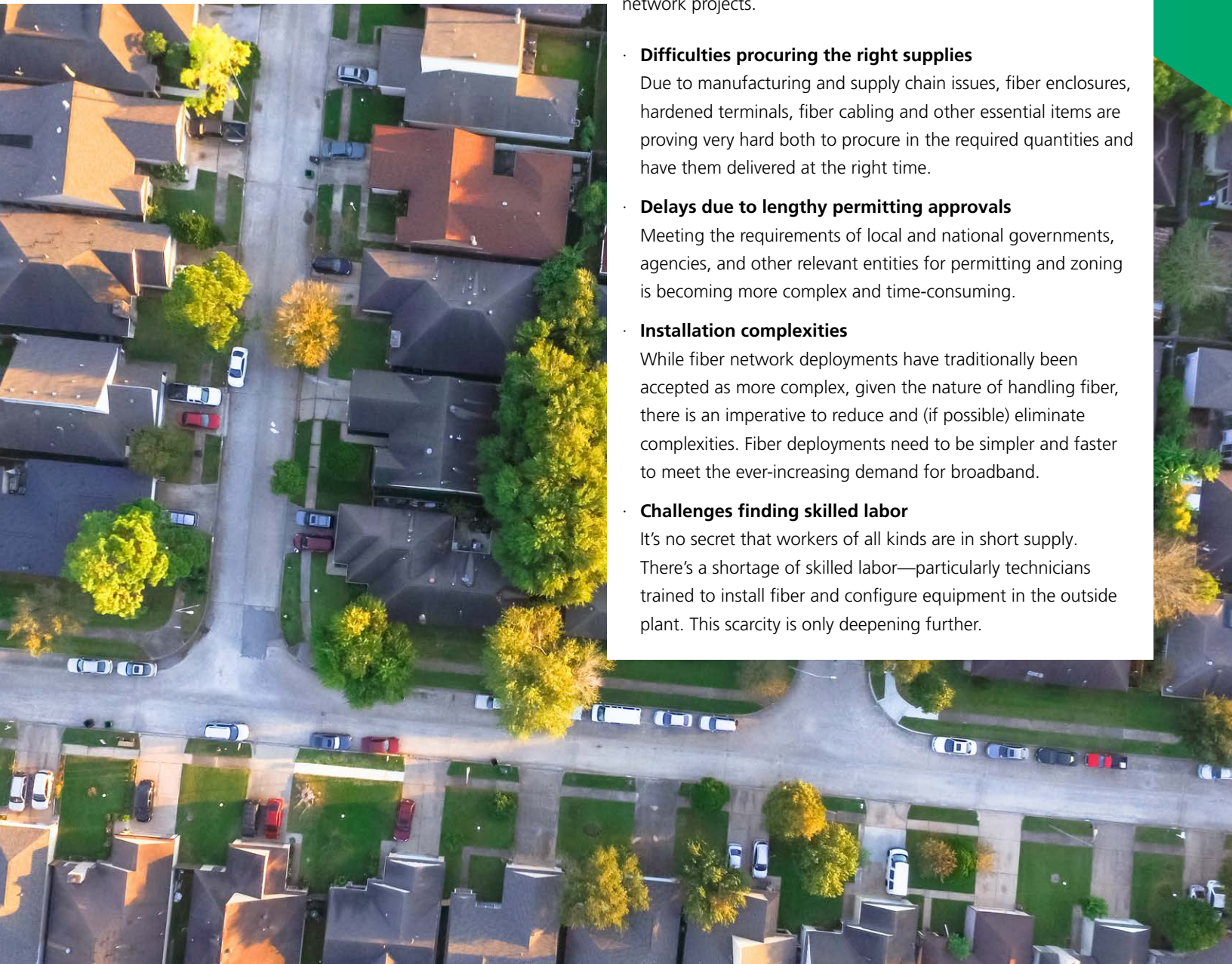
Meeting the requirements of local and national governments, agencies, and other relevant entities for permitting and zoning is becoming more complex and time-consuming.

- **Installation complexities**

While fiber network deployments have traditionally been accepted as more complex, given the nature of handling fiber, there is an imperative to reduce and (if possible) eliminate complexities. Fiber deployments need to be simpler and faster to meet the ever-increasing demand for broadband.

- **Challenges finding skilled labor**

It's no secret that workers of all kinds are in short supply. There's a shortage of skilled labor—particularly technicians trained to install fiber and configure equipment in the outside plant. This scarcity is only deepening further.



# Simplify FTTH deployments with the new FDH 5000 Fiber Distribution Hub cabinet

**Our design goal:** Develop a cabinet that offers the highest number of distribution ports in the smallest possible form factor while providing excellent cable management and easy hand access. This cabinet should be easy to deploy and provide a solution for bringing FTTP to unserved and underserved markets.

**The result:** the FDH 5000 Fiber Distribution Hub (FDH) cabinet. The FDH 5000 is the latest addition to CommScope's expansive portfolio of outdoor FDH cabinets. CommScope's outdoor FDH cabinets not only offer outstanding network performance but have also withstood many decades of real-life use.





- **Quick deployment with fast path to revenue; available in sizes ranging from 144F to 864F**
- **Considerably lighter than traditional cabinet configurations**
  - ~ Unit puts less strain on technicians handling it
  - ~ Installation requires less heavy equipment and fewer installers

- **Craft-friendly splitter module design**
  - ~ Industry-renowned design for plug-and-play splitter cassette installation
  - ~ All-front access for easy maintenance
  - ~ Connections are quickly made with LC jacks, arrayed in a staggered design to help installers access connectors without pinching or moving adjacent connections; this design feature is critical in maintaining uncompromised performance during moves and changes
- **Bend radius protection with intuitive cable routing**
- **Large variety of accessories and mounting kits available to accommodate all applications, with pad or pole mount**

## The most advanced technology, built on a proven platform

The latest addition to CommScope's FDH portfolio, the FDH 5000 provides maximum deployment flexibility, and a fast path to making broadband for everyone a reality. The new FDH 5000 cabinet incorporates CommScope's most advanced inside and outside plant technology. It incorporates design features that have been delivering unparalleled performance and reliability for decades. Light and easy to install, the FDH 5000 features plug-and-play splitters for fast and easy installs and changes.

Configuration	Application type	
FDH 5000 sizes: 48-288F	Applications: pad, pole and wall mount	
FDH 5000 sizes: 432-864F	Applications: Pad and pole mount	

# FDH 5000—Fast connections and network reliability are designed in

- All front access for ease of use
- Staggered LC CMODs for ease of handling and reduced risk of disturbing adjacent connections
- Bend radius protection and intuitive cable routing
- Cable stub lengths 100-foot (30.5M) standard
- Weather-resistant metallic cabinet protects from dust moisture and UV rays within operating temperatures of -67°F to +185°F (-55°C to +85°C)
- Outdoor and indoor applications
- Mounting: pad, pole, and wall (288 cabinet only)
- Grounding UL safety listed
- Tested to GR-3125

Design versatility allows unused splitter slots to be used as parking lots. This saves valuable cabinet space and allows for optimum splitter, feeder and distribution variations.

## Splitter module features

- Plug-and-play splitters come with integrated connector parking lots to ensure cables are kept in sequential order
- 1.2 mm fiber cable pigtailed reduce fiber pile-up



### Splitter specifications:

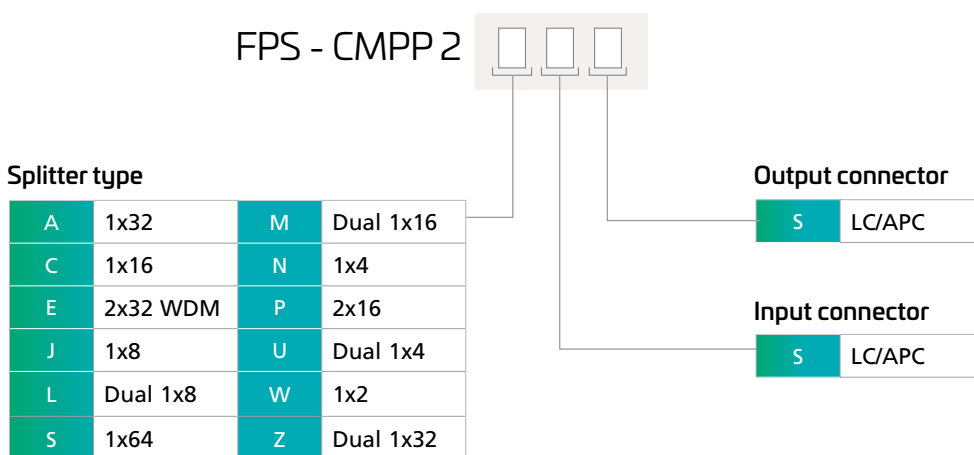
Splitter type	Max loss*	Typical loss*	Uniformity*	Return loss	Directivity	PDL	Wavelength range
1x2	3.8 dB	3.1 dB	1.1 dB	≥ 55 dB	≥ 55 dB	0.2 dB	1260-1360 nm and 1480-1580 nm
1x4	7.2 dB	6.6 dB	0.8 dB	≥ 55 dB	≥ 60 dB	0.2 dB	1260-1635 nm
1x8	10.2 dB	9.7 dB	1.0 dB	≥ 55 dB	≥ 60 dB	0.2 dB	1260-1635 nm
1x16	13.5 dB	12.8 dB	1.0 dB	≥ 55 dB	≥ 60 dB	0.3 dB	1260-1635 nm
1x32	16.7 dB	16.0 dB	1.3 dB	≥ 55 dB	≥ 60 dB	0.3 dB	1260-1635 nm
2x16	14.1 dB	12.9 dB	2.0 dB	≥ 55 dB	≥ 60 dB	0.4 dB	1260-1635 nm
1x64	21.2 dB	20.6 dB	2.4 dB	≥ 53 dB	≥ 60 dB	0.4 dB	1260-1635 nm
Dual 1x32	16.7 dB	16.0 dB	1.3 dB	≥ 55 dB	≥ 60 dB	0.3 dB	1260-1635 nm

\* Includes PDL, WDL and TD. Does not include connector loss.

# Ordering information

PRODUCT NUMBER	DESCRIPTION	F1 FEEDER SIZE (FIBERS)	F2 DISTRIBUTION SIZE (FIBERS)	MOUNTING STYLE	DIMENSIONS
FD5M-288S00DDB4	Mini FDH cabinet with 288 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 72F feeder, 288F distribution pad mount with 8 in riser	72	288	Pad	19.7" W x 13" D x 33.5" H
FD5M-288S00DDB4P	Mini FDH cabinet with 288 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 72F feeder, 288F distribution pole/wall mount	72	288	Pole/Wall	13.25" W x 7.5" D x 24" H
FD5M-144S00DDB4	Mini FDH cabinet with 144 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 72F feeder, 144F distribution pad mount with 8 in riser	72	144	Pad	19.7" W x 13" D x 33.5" H
FD5M-144S00DDB4P	Mini FDH cabinet with 144 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 72F feeder, 144F distribution pole, wall mount	72	144	Pole/Wall	13.25" W x 7.5" D x 24" H
FD5M-432S00DEB5	FDH5000 cabinet with 432 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 144F feeder, 432F distribution, pad mount with 8 in riser	144	432	Pad	27.5" W x 13" D x 35.5" H
FD5M-432S00DEB5P	FDH5000 cabinet with 432 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 144F feeder, 432F distribution, pole mount	144	432	Pole	27.5" W x 9" D x 27.5" H
FD5M-576S00DDB5	FDH5000 cabinet with 576 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 144F feeder, 288F distribution, pad mount with 8 in riser	144	288 x 2	Pad	27.5" W x 13" D x 35.5" H
FD5M-576S00DDB5P	FDH5000 cabinet with 432 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 144F feeder, 288F distribution, pole mount	144	288 x 2	Pole	27.5" W x 9" D x 27.5" H
FD5M-864S00DEB5	FDH5000 cabinet with 864 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 144F feeder, 2X 432F distribution, pad mount with 8 in riser	144	432 x 2	Pad	27.5" W x 13" D x 35.5" H
FD5M-864S00DEB5P	FDH5000 cabinet with 864 ports, LC/APC, no splitters, dry dielectric ribbon RBR, 100 ft stub, 144F feeder, 2X 432F distribution, pole mount	144	432 x 2	Pole	27.5" W x 9" D x 27.5" H

## Plug-and-play splitter modules



CommScope pushes the boundaries of communications technology with game-changing ideas and groundbreaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create, and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow.

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