# Amphenol

# BEAD BAA R

## Amphenol Fiber-to-the-Home (FTTH) Solution

In an era where seamless business operations and daily life depend on fast and reliable interconnected networks, Amphenol and its sister companies deliver the innovative solutions that fuel this fiber-to-the-home revolution.

We understand the ever-evolving needs of network architecture. That's why you can now leverage the combined expertise of Amphenol Charles Industries, Amphenol Network Solutions, and Amphenol Fiber Optic Products through the One Amphenol Solution.

From best-in-class fiber optic components and assemblies to high-density interconnect systems and robust enclosure solutions, the One Amphenol Solution provides unparalleled support across every facet of the FTTH sector.









## **Market Challenges**



Planning and deployment complexity in underserved areas



Supply chain disruption and financial sustainability



Limited and costly skilled and efficient labor

Stringent grant requirements on services, pricing and deployment schedules

## **One Amphenol's Solution**

Pluggable and modular connectivity solutions including feeder cables, multiport drop points and drop cables.

- $\checkmark$
- V US Manufacturing facilities
- V High-quality, customized, reliable products for critical application
- V Comprehensive range of solutions
- Continuous R&D for cutting edge technology  $\checkmark$
- Global presence for efficient support V

\$12.6B company | 90+ years of experience | 100,000 employees globally

## **OUTSIDE PLANT (OSP)**



**Fiber Distribution Hubs** 

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Splice Trays

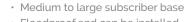
#### **Optical Broadband Cabinet (OBC)**



- Integrated OLT with battery chamber
- Can deliver GPON, EPON, XGS-PON and NG-PON2
- Constructed from powder-coated aluminum
- Grounding bus bar with multiple grounding studs
- Charles Fiber Splitter Modules (CFSM) are available
- Centralized split in a Passive Optical Network (PON)

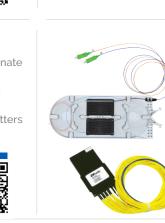


#### Fiber Flexibility Pedestals (CFFP)



- Floodproof and can be installed in almost any location
- Available in four sizes with up to 72, 96, 144 and 288 fiber counts
- 1x4, 1x8, 1x16, 1x32 & 1x64 splitters





#### **Optical Splitters and TAPs**

- Operating wavelength of 1260-1650 nm
- GR-1221-CORE and GR-1209-CORE compliant
- Splitter modules fits in CFFP, CFIT, CFBT, and OHC
- Splitter and Optical tap trays for BDO, CFDP, CFIT, & FSDC



Splice Trays available in 3 sizes





Amphenol Charles Industries

OSP DWDM (HiDT, AOM)

**Outdoor TAPs** 



- Flexible form factor supports up to 10 channels per module in HiDT. bevond 10 channels uses AOM Compatible with the industry
- leading enclosures, including the Amphenol Charles Industries FODC-B closure. CWDM and DWDM options
- available for both HiDT and AOM versions

compatible with many industry

· 2-port, 4-port, and 8-port versions

Light power levels labeled on

each module for easy network

Modular Form factor

leading enclosures

planning and design

available





Amphenol Fiber Optic Products

Amphenol Network Solutions

#### **OSP DWDM Node Packs**

 Integrated mounting features for versatility – all fiber exits one end 4CH and 8CH versions available Color coded fibers and wavelength labels Text, Express, and Upgrade port options

Infinity Premises Enclosure (IPE) NID

-

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- Convenient size in weather resistant high impact thermoplastic alloy
- Self-latching, hinged cover design snaps closed: with padlock
- Optimize space and cost



- **Buried Plant Solutions (Below Enclosures and Vaults)**

#### **Below Grade HDPE Enclosures (CBGE)**

- Rated for light-duty
  - placement, pedestrian traffic Lightweight, molded
  - polyethylene hand-holes
  - Available in four rectangular and two round sizes



#### **Composite Mounting Platform (CPAD)**

- Made from durable
- composite materials
- sizes available
- Same day installation



## **Splice Closure Solutions**



- - · Lightweight and multiple











#### **Outdoor & Indoor Network Terminal**

#### Fiber Interconnect Terminals (CFIT)

**Cabinets & Enclosures** 

- CFIT serves up to 192 subscribers Splice tray basket (standard or hinged) available on feed and/or
  - drop side Constructed of powder-coated aluminum



#### Flexible Fiber Terminals (CFIT-Flex)

• Wall, pole or pedestal mounted Constructed of lightweight and rugged polycarbonate

Serves up to 48 subscribers









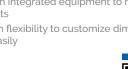
#### **Charles Universal Broadband Enclosures (CUBE)**

- and functionality easily

protection

PSP - 1ed

- Constructed of welded aluminum or steel with a powder coated finish to withstand elements and offer thermal





- Incorporates design flexibility to customize dimensions



- - Can be ordered with integrated equipment to meet your project requirements

#### Packaging designed to provide stable optical performance across wide operating temperatures



**Discrete Splitters** 

- compatible with industry leading enclosures, including the Amphenol Charles Industries FODC-B closure Variety of split rations available, from 1x2 up
  - PLC splitters utilized to provide wide wavelength operating range

Compact form factor allows discrete splitter

to fit into standard mass-fusion splice holder,

#### Fiber Transition Terminals (CFTT)



- Ideal for low-density fiber circuits
- Supports fiber demarcation and slack applications
- 4 and 8 Port models are available



#### Fiber Building Terminals (CFIT-FLEX STD)

Robust lightweight polycarbonate construction · Universal backplane provides ultimate flexibility Fiber optic, copper or coaxial

distribution point of up to 72 subscribers

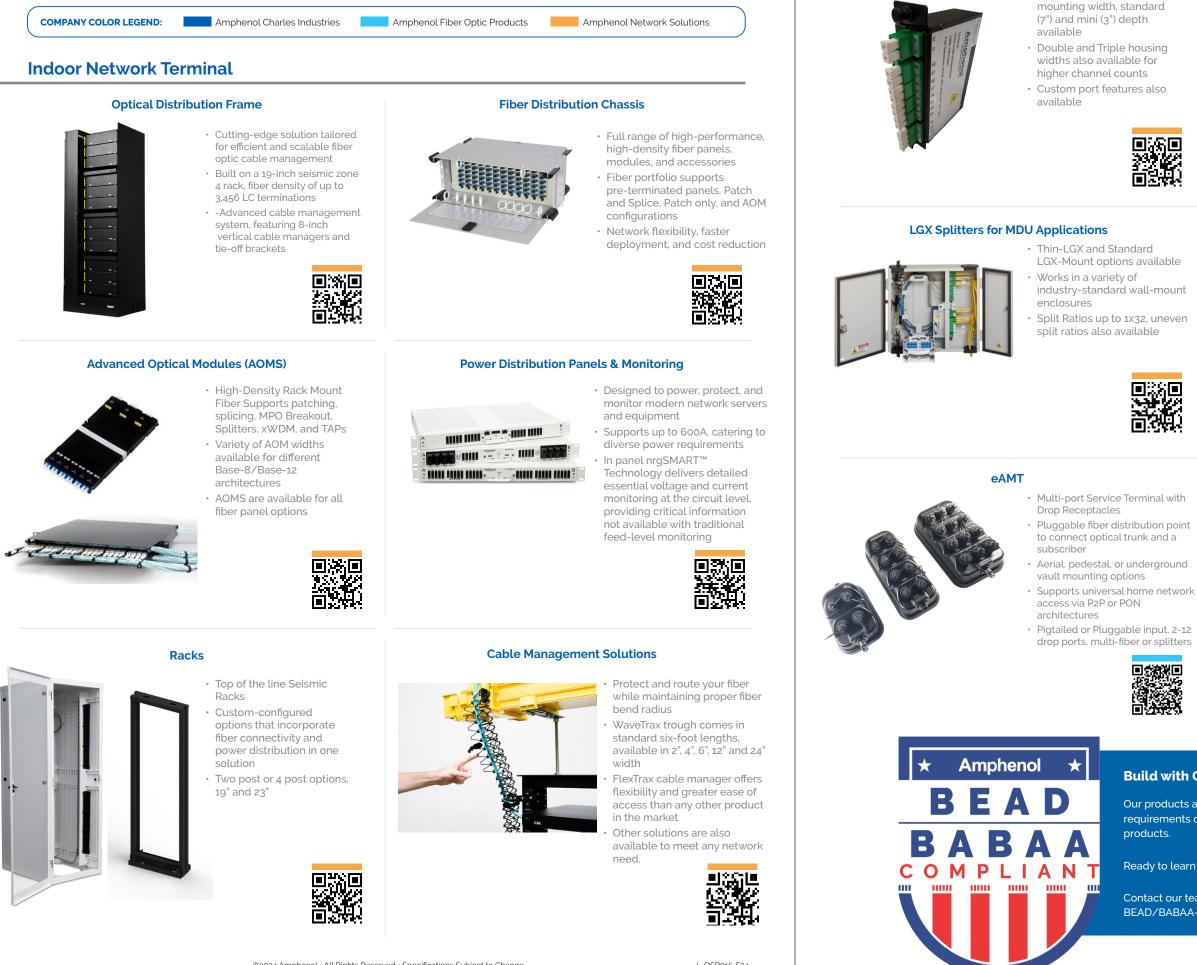


#### Fiber Aerial Solutions (CFAS)

- Sturdy lightweight construction
- Separated splice and drop compartments
- Robust hardware to accommodate cable mounting and routing
- Utilizes standard and/or small Charles Hinged Splice Trays



## **INSIDE PLANT (ISP) - CENTRAL OFFICE AND HEAD END**



#### **Indoor Fiber Enclosure**



- Low profile design that provides an ideal environment for splicing and patching in MDU applications
- Access door on customer side allows easy cleaning tool access to optical ports
- Bulkhead accepts up to 24 SC or 48 LC adapters as well as passive cassettes



#### **Distribution Boxes**

- Ruggedized, compact design, built to accommodate both F/O and DC conductors
- Input and output glands for Hybrid, discrete, or both
- Hinged re-enterable IP67 Box.
- Multiple mounting options such as poles, wall, and ladders





LGX DWDM Modules

Industry-Standard LGX







#### Mini AMT

- Multi-port Service Terminal with Pigtailed Drop Ports
- Compact version of the AMT ideal for
- at-grade or below-grade deployments Pigtailed drop fiber connections offer easy access and flexible routing in tight
- locations Supports universal home network access via P2P or PON architectures
- Pigtailed or Pluggable input, 2-12 drop ports, multi-fiber or splitters



#### **Build with Confidence: BEAD & BABAA Compliant Products**

Our products are proudly manufactured in the USA to meet the strict requirements of the Build America, Buy America Act (BABAA) for BEAD-funded

Ready to learn more?

products.

Contact our team today to discuss your needs and how our BEAD/BABAA-compliant product solutions can benefit your projects.











#### **Optical Components and Accessories**

**Traceable Fiber Jumpers** 



#### **Amphenol Charles Industries**

Charles Industries, LLC is a diversified manufacturer and marketer of high-technology systems for telecommunications, wireless, broadband cable, utility, EV and edge compute markets. Charles supplies a comprehensive line of environmental enclosure solutions for fiber, copper, coax, and wireless backhaul applications. Founded in 1968, Charles has built a solid reputation of product innovation, outstanding customer service, and field-proven performance. Today, Charles' products service the networks of all major North American telecommunications carriers, both wireline and wireless.



#### **Amphenol Fiber Optic Products**

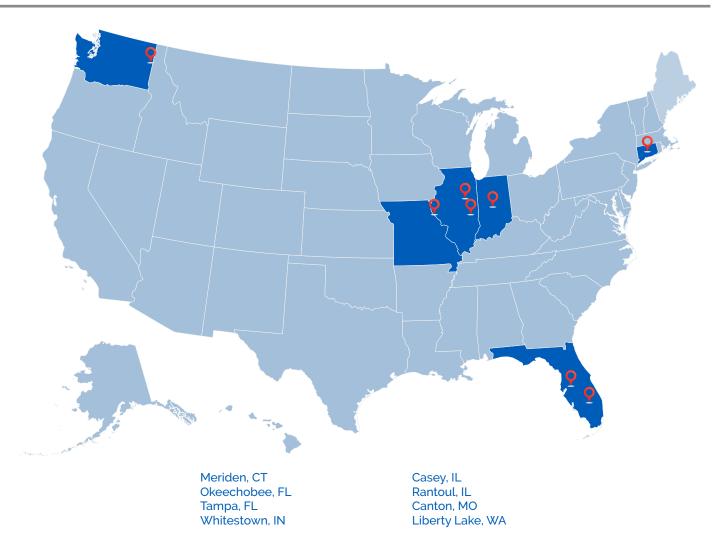
Amphenol Fiber Optic Products provides expertise and solutions in fiber optic interconnect applications, with more than 40 years of experience. Servicing the wireless, IT/datacom, data center and medical markets, Amphenol Fiber Optic Products leads the industry in quality, service, innovation, and customer satisfaction through an unyielding desire to Connect People with Technology.



#### **Amphenol Network Solutions**

Amphenol Network Solutions is a global leader in optical management with a 40-year history of creating solutions tailored to the specific needs of customers. Our product lines include optical passives, fiber connectivity, and power distribution, along with network monitoring, wall-mount enclosures, racks, and cable management solutions.

#### **US Manufacturing Plants**



## Pioneering Connectivity and Technology Solutions Worldwide enclosures, optics, cables, and antenna solutions.

#### **Our Legacy and Global Reach**

Founded in 1932, Amphenol has grown into a global leader, with 100,000 employees worldwide and a presence in over 40 countries across 6 continents. Our journey is marked by our commitment to excellence, pushing the boundaries of technology to connect and protect the world.

#### **Diverse Market Expertise**

We cater to a wide range of end markets:





BROADBAND COMMUNICATIONS COMMERCIAL AEROSPACE







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# Amphenol

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Pioneering Connectivity and Technology Solutions Worldwide, Amphenol stands at the forefront as one of the world's largest providers of high-technology interconnect, sensor, and antenna solutions. With a rich heritage of innovation and excellence, our products are at the heart of the electronics revolution, seamlessly integrating and empowering industries across the globe with capabilities encompassing broadband,



IT AND DATA COMMUNICATIONS



MILITARY



**MOBILE DEVICES** AND NETWORKS





Belief in collaborative, inspiring solutions

#### Join Us in the **Electronics Revolution**



Explore Amphenol's Technology Shaping Future

#### **Contact Us Today!**



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Looking for BABA compliant product for BEAD funded projects? Please inquire with us for more information.

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