# Amphenol Charles Industries Utilities & Transportation Solutions

Amphenol Charles Industries prides itself on safeguarding Fiber-to-the-Substation, Fiber-to-the-Home, Wireless Private LTE, Field Area Networks (FAN), and Electric Vehicle Charging projects. Electric Utilities from investor-owned companies to municipalities, electrical cooperatives or PUDs can count on Amphenol Charles Industries for its high-quality reliable solutions to support Electric Utilities' Communication, Broadband, and Smart Grid projects.

A Fiber-to-the-Home Solutions
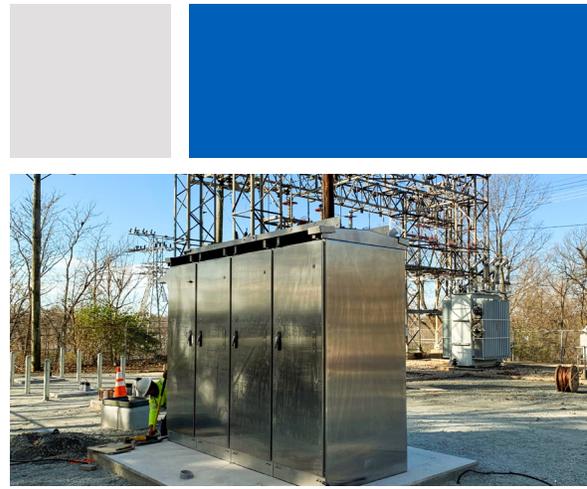
Fiber Optic Dome Closures

- 144 and 288 splice capacities
- Easy to install fiber process
- IP68 rated - below grade use
- Splice trays included

Fiber Distribution Hubs

- Intuitive fiber routing in a compact and environmentally protected fiber enclosure
- Accommodates 32, 64, 96, 144, 288, 432, 576 and 864 subscribers
- Excess splitter slots for servicing commercial and resident dwelling
- Pad, pole or wall mount

Pedestals

- CFDP & BDO Fiber Pedestals for distributed split & distributed tap
- CFFP Pedestals for centralized split

Below Grade Enclosures (BGE) - TRUE™ Composite and HDPE

- TRUE™ Composite Series - Tier 15 & 22. Lightweight and stackable
- HDPE Series of molded polyethylene handholes for light duty placements

Drop Enclosures and Terminals

- FSDC – Sealed Drop Enclosures – 8 port and 16 port housings
    - Distributed Split or Distributed Tap
- AMT & Mini Amt – multi port terminals – 4, 6, 8, 12 port
    - Distributed Split – plug and play
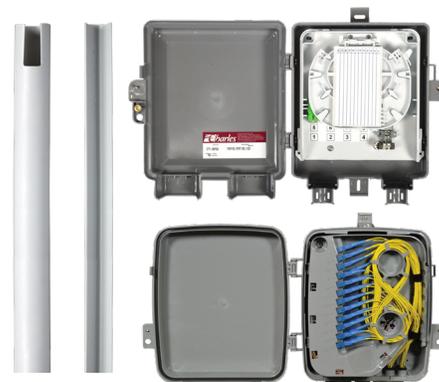
Demarcation Enclosures

- CFTT – NID providing 1-8 fiber ports
- CFIT Flex for MDU terminating 12-72 fiber ports
- Riser Pipes - lightweight, UV stabilized PVC, rustproof, dentproof and corrosion-resistant

Drop Cables

- Flat or Round Drop Fiber
- Toneable or Non Dielectric
- SC/APC or H-Connector

Ⓑ Fiber-to-the-Substation Solutions

SMALL SHELTER

Walk-In Cabinet (WIC)

- 10'x10', 10'x20' and 10'x30' designs
- Up to 6 racks per 10' sections
- 8,500# floor rating

OUTDOOR COMMUNICATIONS CABINETS

Pad Mount Cabinets (PM Series)

- 16-44RU designs

Modular Cabinets

- 1-4 bays
- Field expandable

Pole Mount (RL Series)

- 5-20RU designs

Composite Mounting Platform (CPAD)

- CPAD composite pad for cabinets and generators
- Same day installation, alternative to concrete

Indoor Cabinets (ID Series)

- ID Series in 18RU, 36RU and 48RU sizes

Racks

- Fiber Racks – 2 post, 44RU and seismic rated for 19" and 23" equipment
- Battery Racks seismic rated +24 or –48VDC, Ni-Cd or VRLA
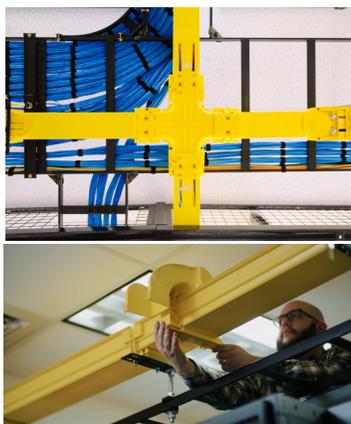
Fiber Raceway and Trays

- Snap on design for reduced installation time
- Proper fiber bend radius throughout
- 4" & 6" designs

Fiber Rack Solutions

- CFRS for Splice in trays, 1RU, 2RU and 4RU
- C2E, C2X and LCX for modules and cassettes from 12 to 7,000 ports

C Wireless - Private LTE, Field Area Network (FAN) or WiFi Solutions

Antennas

- Base Station Antennas - panels or omni directional
- Mobile Antenna for utility trucks
- Portable Antennas – hand portable and body-Worn
- Combiners

Cables

- RF Coax Cable and adaptors
- Hybrid Cable – fiber and power cables in single sheath
- Fiber/Power as individual cable trunks

Fiber Backhaul Cabinets for Wireless

- Wall/Pole Mount (RL) outdoor cabinets for wireless communication equipment
- Multi Purpose (MP) cabinets for remote wireless locations

D Electrical Vehicle Charging Station Solutions

Composite Mounting Platform (CPAD)

- Multiple size pads for level 2 or DC Fast chargers
- Same day installation
- Safety advantage – no shock hazard

E Cabinets and others

Power Sectionalizer Cabinets

- Singe phase or 3 phase

Multi Purpose Cabinets (MP Series)

- Wooden or Aluminum Mesh Backboard

Charles Universal Broadband Enclosures (CUBE)