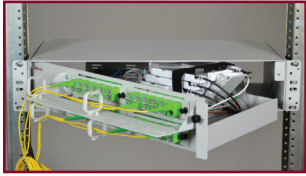


# FIBER ACCESSORIES

## Fiber Optic Accessory Products Line Card for Charles Industries, LLC



### RACK SOLUTIONS

- Compact 1RU, 2RU and 4RU panels for patch, patch & splice, and splitter requirements
- Swing out shelves and hinged splice trays allow easy access without disturbing existing splices
- Optional front mount cable manager kit
- CPRI Remote Monitoring Panel also available



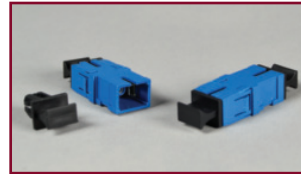
### WALL SOLUTIONS

- Small count fiber patch and splice solution for indoor applications
- Enclosure uses standard LGX footprint patch plates for up to 12 fiber ports
- Multiple APC and UPC adapter plate options
- Top and bottom cable entry grommets



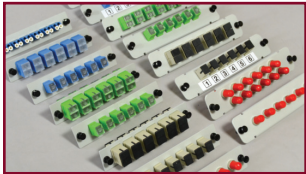
### TOTAL FRONT ACCESS (TFA) PANEL

- Panel accommodates up to 3 different LGX Total Front Access (TFA) modules in 1RU rack space
- User customizable to a broad variety of Fiber and Ethernet modules
- Flexibility for patch, splitter and CWDM/DWDM



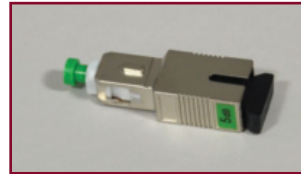
### BULKHEAD ADAPTERS

- SC/APC, SC/UPC and LC/UPC bulkhead adapters available
- Telecordia GR-326-CORE
- Ceramic alignment ferrules
- Kits include 12 adapters per kit
- High quality, low-loss construction



### PATCH PLATES

- Options to accommodate 6 and 12 port configurations for SC, LC and ST adapters
- Standard LGX Plate (1.13"x5.11") and Large Plate (1.36"x6.13") footprints
- Compatible with both Charles and competitive connector housing panels



### ATTENUATORS

- Attenuation ranges from 1dB to 10dB (up to 30dB available per special order)
- SC/APC, SC/UPC and LC/UPC attenuators available
- Male to female design
- RoHS Compliant



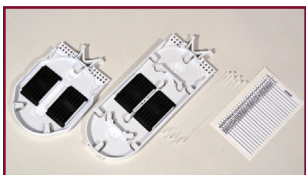
### LGX MODULES

- CWDM/DWDM and standard splitter modules
- Variety of splitter types (1x4, 1x8, etc.)
- Transition modules (SC to MPO, LC to SC, etc.) also available
- Compatible with both Charles and competitive LGX rackmount panels



### FAN-OUT CABLE ASSEMBLIES

- SC or LC connectors, UPC or APC
- 250µ fiber (loose-tube or ribbon) ingress
- Single-mode fiber, 900µ color-coded buffer, egress in 3 meter lengths (G.657.A1)
- 6, 8 and 12 fiber connector fanouts available



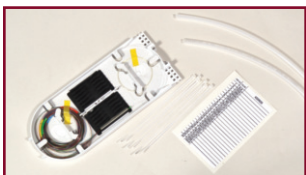
### SPLICE TRAYS

- Compact 4"x6" and 4"x9" tray sizes accommodate up to 24 single fusion splices, two mass fusion splices (12 fiber ribbons) or up to 12 mechanical splices per tray
- Hinged and non-hinged versions available
- Dust cover, ID label and cable ties included



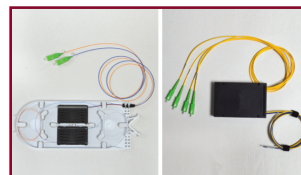
### JUMPERS & PIGTAILS

- Single-mode 10mm bend-insensitive fiber jumpers in 1 meter lengths (G.657.A1)
- Single-mode, simplex 2mm pigtails
- Kits of 900µ color-coded buffer pigtails in 3 meter lengths with 6, 8, and 12 fiber connector pigtails



### SPLITTER TRAYS

- 1x2, 1x4, 1x8, 1x16 and 1x32 splitter trays available in 4"x6" and 4"x9" sizes
- Mounted premium PLC fiber splitter with stranded 250-micron fiber
- Transportation tubes and tie-wraps included
- Butt-end fiber ingress and egress
- Connectorized output option



### OPTICAL TAPS

- Splitter Tray or Splitter Module options
- 1x2, 1x4 or 1x8 PLC splitters
- Stubbed pass-thru leg, 4.5' length
- SC/APC drop legs, 22" minimum length
- Compatible with Charles fiber pedestals, cabinets and aerial enclosures



### SPLITTER MODULES

- 1x8, 1x16 and 1x32 splitter modules for fiber pedestals and building terminals
- Plug & Play modules for PON architectures
- SC/APC connectors
- 1260-1650nm operating wavelengths
- Low excess loss, environmentally stable



### RISER PIPES

- 7/8" and 1 1/4" outside diameters
- Lightweight, UV stabilized PVC construction
- Splitter risers available for pre-connectorized fiber drops, eliminate the need to force bulky connector ends through the pipe
- Variety of lengths, bends and offsets available

LIT-OSP005-H21

Please visit [www.charlesindustries.com](http://www.charlesindustries.com) for product specifications and ordering information.

Established in 1968, Charles Industries, LLC is an ISO 9001 / TL 9000 Registered Company.



# CHARLES FIBER HUB SOLUTIONS

Outdoor and Indoor Optical Hubs in Cabinet, Pedestal, and Compact Terminal Form Factors

## OHC OPTICAL HUB CABINETS

- High-capacity fiber distribution hubs / primary flex points for passive optical networks (GPON/EPON)
- Designed with flexibility in mind, with support for fusion, pre-terminated and field terminated feed and drop fibers
- Space for multiple splitters for incremental growth
- Technician-friendly features include front and rear access doors, multiple cable entry locations, fiber bend radius controls and splice tray basket with hinged trays
- Available in a variety of configurations, with four sizes accommodating 288, 432, 576 or 864 fiber distribution adapters



OHC288



OHC432



OHC576



OHC864

## CFPP FIBER FLEXIBILITY PEDESTALS

- Scalable, economical alternative to placing fiber distribution cabinets at local convergence points.
- Non-metallic construction won't rust or corrode
- One-piece locking dome creates a floodproof fiber bulkhead
- Fiber pass-throughs are available for secure circuits or for the flexibility to extend feed fibers to additional CFPP units for expanding neighborhoods
- 72, 96, 144 and 288 sizes configurable with smaller outputs
- Compatible with Charles CFSM Splitter Modules



CFPP12E-144 FIBER FLEXIBILITY PEDESTAL

## CFBT-H INDOOR FIBER HUB TERMINALS

- Compact Hub supports 48 subscribers and includes two 1x32 splitter slots, Standard Hub supports 96 subscribers and includes three 1x32 splitter slots, Expanded Hub supports 144 subscribers and includes five 1x32 splitter slots, and Ultra Hub supports 384 subscribers and supports twelve 1x32 splitter slots
- Durable and lightweight aluminum construction with a powder-coated finish
- Removable splice tray basket(s) for pre-terminated and field terminated applications



CFBT-H COMPACT



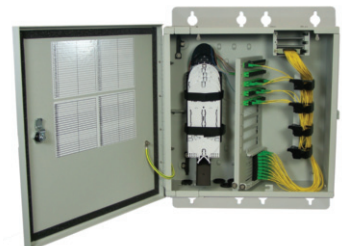
CFBT-H STANDARD

## CFIT-H OUTDOOR FIBER HUB TERMINALS

- Compact Hub supports 48 subscribers and includes two 1x32 splitter slots, Standard Hub supports 96 subscribers and includes three 1x32 splitter slots
- Durable and lightweight aluminum construction with a powder-coated finish
- Removable splice tray basket for pre-terminated and field terminated applications
- Outdoor wall mounting brackets included



CFIT-H COMPACT



CFIT-H STANDARD