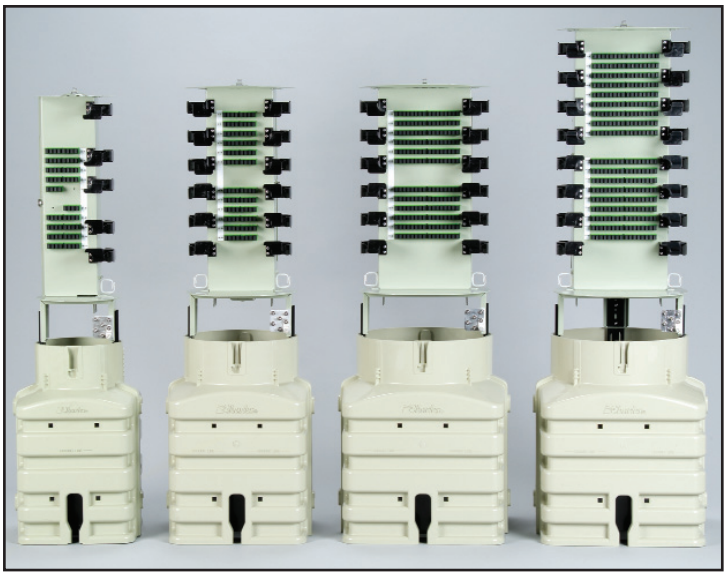
Charles Fiber Cross-Connects (CFXC)

CFXC offer a scalable, low cost alternative to placing traditional metallic fiber cross-connect cabinets in the outside plant. CFXC provide a convenient interconnect and testing point between the feeder network and the distribution field in FTTH networks. Unlike metallic cabinets, CFXC are flood proof and can be installed in almost any location. Their compact size compared to large cabinets makes them easier to install and ideally suited to small communities and neighborhoods. Right-of-ways are no longer a concern and the units can be economically placed directly in the ground without the need for an expensive concrete pad. CFXC are available in three pedestal diameters and five frame sizes with up to 72 (8”), 96 (10”), 144 (12”), 196 (12”) and 288 (12”) fiber counts. Both stake-mount and vault-mount configurations are available. Vault-mount models are ideal for locations that require splice case or slack cable storage at the same location as the cross-connect placement.



Product Features

- Non-metallic construction provides superior flood-proof environmental protection
- Direct buried pedestal eliminates the need for expensive pads or concerns for getting right of ways for cabinet placement
- Sizes are configurable with smaller fiber counts to economically optimize fiber cross-connect size for the neighborhood it will serve
- Small profile is more aesthetically pleasing than cabinets when placed in residential areas and allows for lower freight and storage costs
- Vault mount and stake mount options allow placement directly on or next to a splicing vault
- Craft-friendly 360º access to internal fiber organization
- Locking cover for back of connectors gives protection while allowing easy access for cleaning without moving the fiber bulkhead
- Organization is optimized with specially designed 3-way bend controls so minimum bend requirements are met no matter how the fibers are routed
- The CFXC is pre-stubbed and tested with feed and distribution cables (armored loose tube, armored ribbon, dielectric loose tube or dielectric ribbon) in the factory
- Cross-connect bulkhead features user-specified SC/APC or SC/UPC connectors
- Four removable cable entry grommets are provided per pedestal
- Grounding and bonding bar provided

Side view shows fiber organizers with 3-way bend controls

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Product Specifications

Sizes:	Up to 72 fibers (8” ped), up to 96 fibers (10” ped), up to 144 or 192 (12” ped, 28” dome), and up to 288 (12” ped, 38” dome) fiber counts
Placement Configurations:	Direct buried or vault mount pedestal base
Connector Type:	SC/APC or SC/UPC for inputs and outputs
Cable Types:	Ribbon or Loose Tube, Shielded or All-Dielectric
Cable Lengths:	50' or 100' standard
Cable Entrance Grommets:	4 per pedestal
Environmental Protection:	Sealed inner dome protects against dust and dirt, locking outer dome protects against environmental conditions and provides flood protection (designed to meet Telcordia GR-3125-CORE requirements for Fiber Distribution Hubs)
Fiber Jumpers:	Order separately, use 1 meter jumpers with 2mm jackets and bend insensitive fiber (ITU G.657A)

Vault-Mount Configuration

Ordering Information

C	F	X	C	1	2	E	-	F	D	D	0	0	B	F
				1			2	3	4	5	6	7	8	9

Field	Designation	Options
1	Pedestal Diameter	**08** = 8” Pedestal (maximum 72 fiber count) **10** = 10” Pedestal (maximum 96 fiber count) **12** = 12” Pedestal (maximum 288 fiber count)
2	Base Type	**—** = Standard Buried Base, **V** = Vault Mount Base
3	Total Connector Fiber Count	**B** = 48, **C** = 72, **D** = 96, **E** = 144, **F** = 192, **G** = 288
4	Cable 1 Fiber Count	**0** = none, **T** = 24, **A** = 36, **B** = 48, **C** = 72, **D** = 96, **E** = 144
5	Cable 2 Fiber Count	**0** = none, **T** = 24, **A** = 36, **B** = 48, **C** = 72, **D** = 96, **E** = 144
6	Cable 3 Fiber Count	**0** = none, **T** = 24, **A** = 36, **B** = 48, **C** = 72, **D** = 96, **E** = 144
7	Cable 4 Fiber Count	**0** = none, **T** = 24, **A** = 36, **B** = 48, **C** = 72, **D** = 96, **E** = 144
8	Bulkhead Fiber Connector Type	**A** = SC/APC Connectors, **B** = SC/UPC Connectors
9	Fiber Cable Type and Stub Length	**A** = Armored loose tube cable with 50’ stub **B** = Armored loose tube cable with 100’ stub **C** = Armored ribbon cable with 50’ stub **D** = Armored ribbon cable with 100’ stub **E** = All-dielectric loose tube cable with 50’ stub **F** = All-dielectric loose tube cable with 100’ stub **G** = All-dielectric ribbon cable with 50’ stub **H** = All-dielectric ribbon cable with 100’ stub

Example: CFXC12E-FDD00BF
is a CFXC fiber cross-connect in a 12” pedestal with a standard buried base and a 192 count fiber bulkhead using SC/UPC connectors with two 96 fiber all dielectric loose tube cable stubs that are 100 feet in length.

Optional Metal Mounting Stake Kits:
UMS30-STD (30”stake), UMS36-STD (36” stake), UMS42-STD (42” stake)

Optional Fiber Jumper Kits, 1 meter length with 2mm jackets and bend insensitive fiber:
SC/APC: 97-SCA2BI1M10J (Package of 10), 97-SCA2BI1M25J (Package of 25)
SC/UPC: 97-SCU2BI1M10J (Package of 10), 97-SCU2BI1M25J (Package of 25)

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Visit our website at http://www.charlesindustries.com

Charles Industries, Ltd.
Telecommunications Group
5600 Apollo Drive
Rolling Meadows, IL 60008 USA

Voice: (847) 806-6300
FAX: (847) 806-6231
E-mail: mktserv@charlesindustries.com