

Fiber Distribution Interface (FDI)

SIECOR[®]



Fiber Distribution Interface (Outdoor Version – Closed)



Fiber Distribution Interface (Outdoor Version – Open; shown with First Generation Fiber Management System)

Splice Trays

- Hinged trays allow access to splices without a fiber service loop to protect
- Slack fiber storage on the tray allows for up to 20 resplices
- Each splice tray stores up to 24 single-fiber splices
- Supports use of passive optical devices (e.g., couplers and WDMs)

Description

Siecor's Fiber Distribution Interface (FDI) is a splice-based, fiber flexibility point for indoor and outdoor locations. It is designed for fiber-to-fiber administration instead of buffer tube-to-buffer tube or ribbon-to-ribbon administration. Therefore, any feeder fiber can connect to any distribution fiber regardless of which buffer tube or ribbon it originates from—providing maximum flexibility. The FDI also serves to manage growth, permitting economic provisioning of feeder cables while distribution networks are sized for ultimate demand. Furthermore, it provides for future addition and administration of optical splitters and WDMs required for many broadband systems. The FDI is available in two versions: rack-mounted for indoor applications and cabinet-mounted for outdoor applications.

FDI Functions

- Management of growth
- Demarcation between ducted feeder and buried distribution
- Test access
- Fiber-to-fiber flexibility
- Housing of optical splitters
- Broadband upgrade
 - Feeder reinforcement
 - Altering of splitter ratios

Fiber and Cable Management

- Total of 12 cable entries
- Up to 50 cassettes—12 fibers per cassette
- 20 splice trays—up to 24 single-fiber splices per tray
- Fiber-to-fiber administration for maximum flexibility
- Fiber identification and traceability of fibers
- Provisions for balloon splicing
- Provisions for cable storage prior to cable preparation and splicing

Cabinet Construction (Outdoor Version Only)

- Stainless steel hardware
- Cabinet doors lock and unlock with a 216B tool
- Ribbed design and statutory bronze (brown) color blends into environment
- Enclosure replacement without service interruption
- Rear access not required
- Base material: hot-dipped galvanized steel
- Dimensions (H x W x D): 44 in x 38 in x 18 in
- Pad-mounted
- Standard 23-inch frame
- 3.5-inch cable ports for cable entrance
- Cable anchoring, bonding, and grounding
- All aluminum housing

Fiber Distribution Interface (FDI)

Ordering Information

Basic Components

Items marked with an X are required for the indicated application.

Part Number	Description	Outdoor/ Cabinet	Indoor/ Rack
FDI-CABINET	Outdoor Cabinet	X	
FDI-CABINET-KIT*	Cabinet Kit	X	
QAW1C18	Anchor Plate	X	
FDI-RACK-KIT*	Rack-Mount Kit		X
FDI-FAN-OD45	Buffer Tube Fan-Outs - one per buffer tube	X	X
FDI-SPLICE-TRAY	Splice Tray and Hangers - one per 24 feeder fibers	X	X
FDI-CASSETTE	Cassette - one per 12 stored distribution fibers (50 max)	X	X
FDI-VAULT-BKT	Mounting Bracket Kit, Vault 1.5 in x 1.5 in x 60 in L-shaped bracket		

* A complete range of cable grips (8 mm - 20.5 mm) is included with each FDI-CABINET-KIT and each FDI-RACK-KIT.

Spare Parts

Items marked with an X are included in the kit indicated.

Part Number	Description	Cabinet Kit	Rack-Mount Kit
FDI-SHELF	Work Shelf	X	X
FDI-SIDE-PANEL	Side Access Panel - Cabinet	X	
A0390783	FMS Cable Panel		X
FDI-FEEDER	Bottom Buffer Tube Storage	X	X
FDI-BT-PANEL	Top Buffer Tube Management System	X	
FDI-PANEL	Main Panel, 33.13 in x 25.95 in	X	X
A0375902†	Assembly Clamp Cable	X	X
A0388952‡	Cable Grip #1; 8.0 mm (0.32 in) diameter		
A0388954‡	Cable Grip #2; 10.5 mm (0.40 in) diameter		
A0388955‡	Cable Grip #3; 13.0 mm (0.50 in) diameter		
A0388956‡	Cable Grip #4; 16.0 mm (0.63 in) diameter		
A0388957‡	Cable Grip #5; 17.5 mm (0.70 in) diameter		
A0388958‡	Cable Grip #6; 20.5 mm (0.80 in) diameter		
A0388959	Cable Bonding Kit		

† Each cable clamp assembly accommodates three cables; four cable clamp assemblies are included with each FDI kit.

‡ Each cable grip package contains grips for three cables.

Accessories

Part Number	Description
SRP-209-205	FDI Interface Installation Instructions (English)
SRP-219-205	FDI Model 1080 Cabinet Installation Instructions (French)
SRP-000-088	Outdoor Applications Kit, 6- or 12-Fiber Buffer Tube Fan-Out Assembly Installation Instructions (English)
SRP-010-091	Ensemble FDI-Fan-OD45 (Buffer Tube Fan-Out Assembly Installation Instructions, French)
SRP-209-216	Fiber Distribution Interface (FDI) USA (English)
SRP-209-219	FDI Vault Bracket Kit (English and French)

