

Infinity Fibre Distribution Frame



We connect.



Infinity Fibre Distribution Frame

The Infinity Fibre Distribution Frame (IFDF) is a high density optical interconnect solution suited to a range of communications environments. Modular in design, the IFDF offers a unique solution for high density fibre management in Data Centres, Co-location and Telecommunication environments.

The IFDF is a left and right sectioned mounting frame that is populated with modular swing out sub frames as required. The left and right sections allow inbound or outbound cables to be separated. Each section on the full height frame will accommodate 13 sub frames, totaling 26 when both are fully populated.

The swing out sub frames are fitted as required and accommodate 5 modules each. A range of modules are available to suit fusion splicing, patching, passive device module patching and MTP patching. Based on a maximum module capacity of 24 fibres, the full height IFDF can present 3120 spliced terminations making it one of the highest density frames on the market.

Applications

- Termination and management of large fibre count cables
- Termination and management of multiple incoming and outgoing cables
- Management of incoming and outgoing pre-terminated cables (including MTP)
- Patching between terminated cables, passive devices and patching interfaces/cross-connects
- Termination and management of A/B diverse route networks
- Cross-connect between DC switches, servers and SAN devices

Splicing

- Single fibre LC/SC fusion spliced pigtail
- FuseConnect
- Single fibre mechanical

Patching

- MTP
- SC
- LC

Passive Device Modules

- Optical splitters
- WDMs
- CWDMs



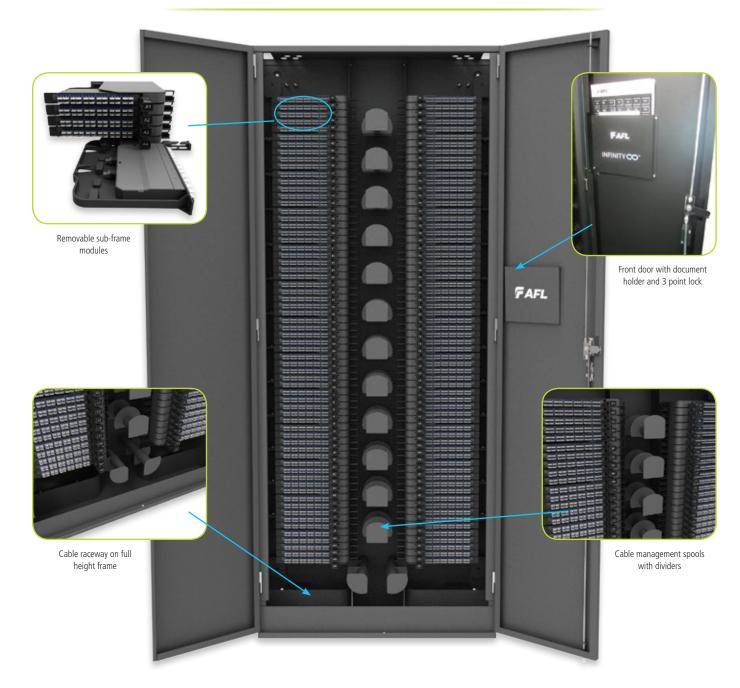
Features and Benefits

- Individual modules allow access without adjacent circuit disruption
- Top and bottom cable entry suitable for both overhead and under floor cabling
- Left and right side fibre guide system supports and manages incoming and outgoing cables
- Central storage bay accommodates patchcord routing and storage
- Modular design allows expansion of the network when required
- All front access design to suit wall mounting
- Large capacity lower cable raceway for inter-rack patching on full height frame only
- Fixed length patchcords suits all patching requirements, minimising inventory
- Shipped assembled ready for installation
- Label tags are supplied for the swing out modules for identifying individual trays
- Supplied with full installation instructions for splicing and connecting pre-terminated assemblies
- Doors fitted with documentation storage

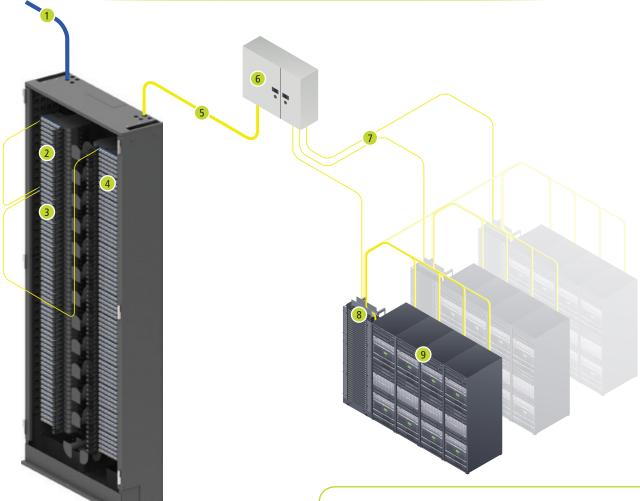
Specifications

| PART NUMBER | AFL-IFDF-FRAME-UL-V2 | AFL-IFDF-FRAME-UL-V2-M | | |
|--------------|--|---|--|--|
| DESCRIPTION | Infinity Fibre Distribution Frame | Infinity Fibre Distribution Frame – Mini | | |
| DIMENSIONS | 900 mm (W) x 2200 mm (H) x 300 mm (D) | 900 mm (W) x 1295 mm (H) x 300 mm (D) | | |
| WEIGHT | 120 kg without internal sub-frames | 75 kg unloaded. 140 kg with 12 internal sub-frames and 60 cassettes | | |
| INSTALLATION | Bayed, back to back, wall or free-standing | Wall mountable or free-standing | | |
| CAPACITY | The rack allows for 13 sub-frames per side to allow a total of 130 cassettes / patch panels. The mini rack allows for 6 sub-frames per side to allow a total of 60 cassettes / patch panels. Three types of cassettes are available for both racks and can be used in any combination. Cassette types include: Splice, Optical passives and MTP. Patch panels for pre-terminated cables are also available. | | | |
| | Cassette capacity: Splicing cassette – up to 24 splices using SC terminations Passives cassette – up to 12 circulator circuits MTP cassette – up to 48 circuits using LC connectors (Using 2 x 24F MTP's at rear of cassette) Patching cassette – up to 24 connections using LC connectors | | | |
| | Splicing capacity: 3120 splices using SC/SCA connectors on loose tube cable | Splicing capacity: 1440 splices using SC/SCA connectors on loose tube cable | | |
| | Preterminated cables capacity: Bundled MTP cables (8 MTP's per cable) – 130 cables Pre-terminated 24F LC cables – 130 cables | Preterminated cables capacity: Bundled MTP cables (8 MTP's per cable) – 60 cables Pre-terminated 24F LC cables – 60 cables | | |
| FEATURES | Top and bottom cable entry points with cable fixing gland brackets and brush strips | Top cable entry points with cable fixing glands and brush strips | | |
| | Mild steel with textured powder coat finish in matte black | | | |
| | Central patchcord management spools | | | |
| | Fibre tube management guides for all modules | | | |

Fully Loaded Frame with 26 Sub-Frame Modules



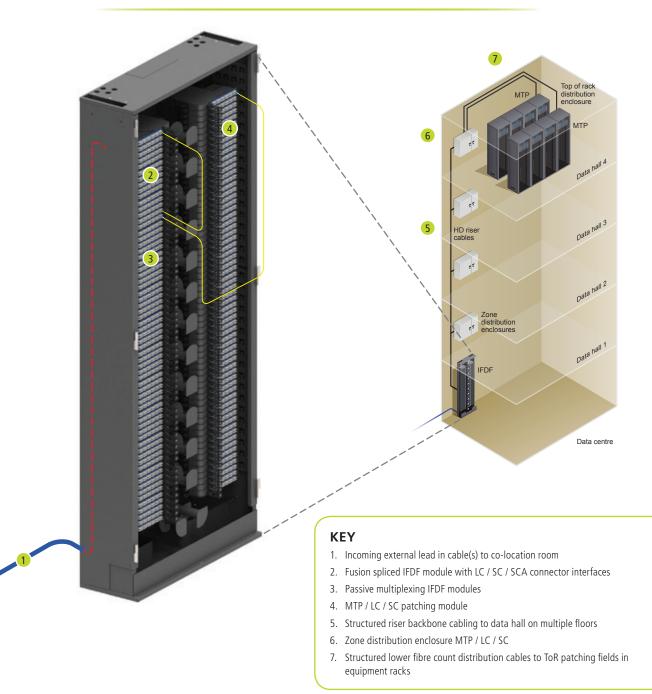
Telecommunications Co-location with Horizontal Distribution Network



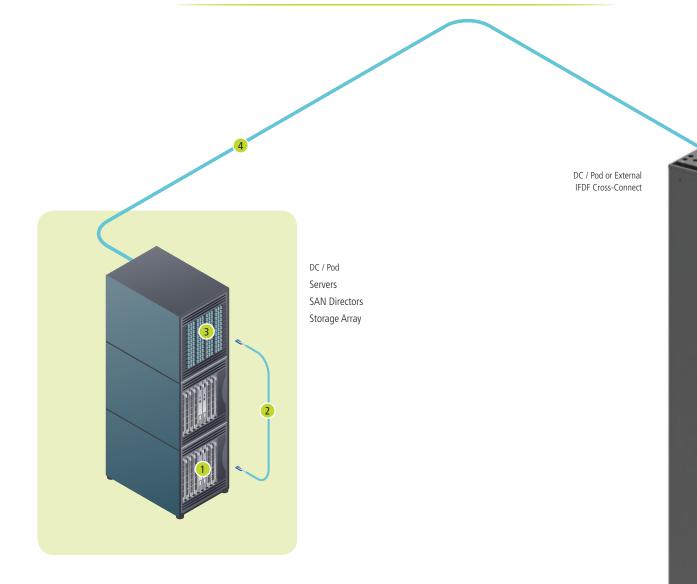
KEY

- 1. Incoming external lead in cable(s) to co-location room
- 2. Fusion spliced IFDF module with LC / SC / SCA connector interfaces
- 3. Passive multiplexing IFDF modules
- 4. MTP / LC / SC patching module
- 5. Structured high fibre count cabling to data hall or other location
- 6. Zone distribution enclosure MTP / LC / SC
- 7. Structured lower fibre count distribution cables
- 8. EoR (End of Row) cross-connect racks
- 9. Equipment racks with ToR (Top of Rack) patching fields

Telecommunications Co-location with Vertical Distribution Network



Data Centre (DC) and SAN (Storage Area Network) Cross-Connect Architecture

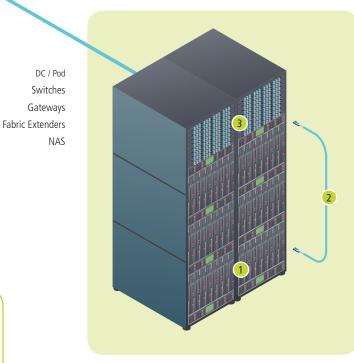


Shown is an MTP cross-connect housed in an IFDF. The IFDF cross-connect can sit with, or adjacent to the network equipment, or in another location.

Data Centre cross-connects allow device interfaces to be pre-cabled from day one using structured cabling. Structured cabling offers scalability, reduced connection errors and a higher level of equipment protection and security.

The cross-connect patching interface mirror switch ports and server ports. All connects and disconnects are made at the patch panel with patchcords.

An 'any to all' configuration can be achieved with a cross-connect, any switch port can be connected to any equipment port.



KEY

- 1. Active equipment
- 2. LC-LC Patch cable
- 3. ToR Patching field
- 4. Structured MTP cabling
- 5. MTP-LC IFDF module

Options Available

| | DESCRIPTION | PART NUMBERS | |
|---|--|--|--|
| | Fusion splice cassettes available with a | AFL-IFDF-24LCAQ-4-V2 24F LC OM4 Splice Cassette for IFDF Sub-Frame | |
| | maximum of 24 splices | AFL-IFDF-24LCBU-1-V2 | 24F LC SM Splice Cassette for IFDF Sub-Frame |
| | | AFL-IFDF-24SCGN-1A-V2 | 24F SCA SM Splice Cassette for IFDF Sub-Frame |
| | MTP-LC cassettes available with a maximum of 48 LC connections. These cassettes form part of a plug and play system within the IFDF | IFC-24MTPMLCQ-4XHD | MTPM-LCQ Extra High Density 24F OM4 Cassette |
| A CONTRACTOR | | IFC-24MTPMALCQ-1XHD | MTPMA-LCQ Extra High Density 24F SM Cassette |
| | | IFC-48MTPMALCQ-1XHD | MTPM-LCQ XHD 48F SM Cassette (suit IFDF only) |
| | | IFC-48MTP2MLCQ-4XHD | MTP2M-LCQ XHD 48F OM4 Cassette (suit IFDF only) |
| \sim | AFL fibre passive devices can be used to | FPD-OC113SCALC12-F1 | 12 x 1310 nm Circulator SCA/LC, IFDF |
| | multiplex optical signals in single mode networks. This allows better utilisation of installed infrastructure by combining multiple transmissions over less fibres. | FPD-OC115SCALC12-F1 | 12 x 1550 nm Circulator SCA/LC, IFDF |
| | | FPD-OMC181470SCALC-1-F1 | 8CH CWDM, 1470 nm SCA/LC, IFDF |
| | Adapter panels are used in conjunction with incoming pre-terminated cable assemblies. They can accommodate a maximum of 12SC, 24LC or 96MTP connections. | AFL-IFDF-24LCBU-P | 24F LC Loaded Patch Panel for IFDF Sub-Frame |
| and | | AFL-IFDF-24LCAQ-P | 24F LC Loaded Patch Panel for IFDF Sub-Frame |
| and the second second | | AFL-IFDF-12SCGN-P | 12F SC Loaded Patch Panel for IFDF Sub-Frame |
| and the second se | | AFL-IFDF-12SCBU-P | 12F SC Loaded Patch Panel for IFDF Sub-Frame |
| | | IFC-MTP08XHD-FL-AQ | MTP 8 Port XHD Panel Flat Loaded W/ 8 x Aqua |
| | | IFC-MTP08XHD-FL-BK | MTP 8 Port XHD Panel Flat Loaded W/ 8 x Black |
| | Left hand side sub frame module to hold up to 5 cassettes or panels | AFL-IFDF-SUBLH | IFDF LHS Sub-Frame Module – 5 Trays |
| | Right hand side sub frame module to hold up to 5 cassettes or panels | AFL-IFDF-SUBRH | IFDF RHS Sub-Frame Module – 5 Trays |
| | 5 m patchcords | D1LCUP5M-C2 | |
| | | D1LCSC5M-C2 | |
| | | D1SCSC5M-C2 | |
| | | D1LCSCA5M-C2 | |
| Mar Harris | | D1SCASCA5M-C2 | |
| A T | | D1SCASC5M-C2 | |
| 00 | | D4LCUP5M-C2 | |
| | | D4LCSC5M-C2 | |
| | | D4SCSC5M-C2 | |





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