



Data Centres



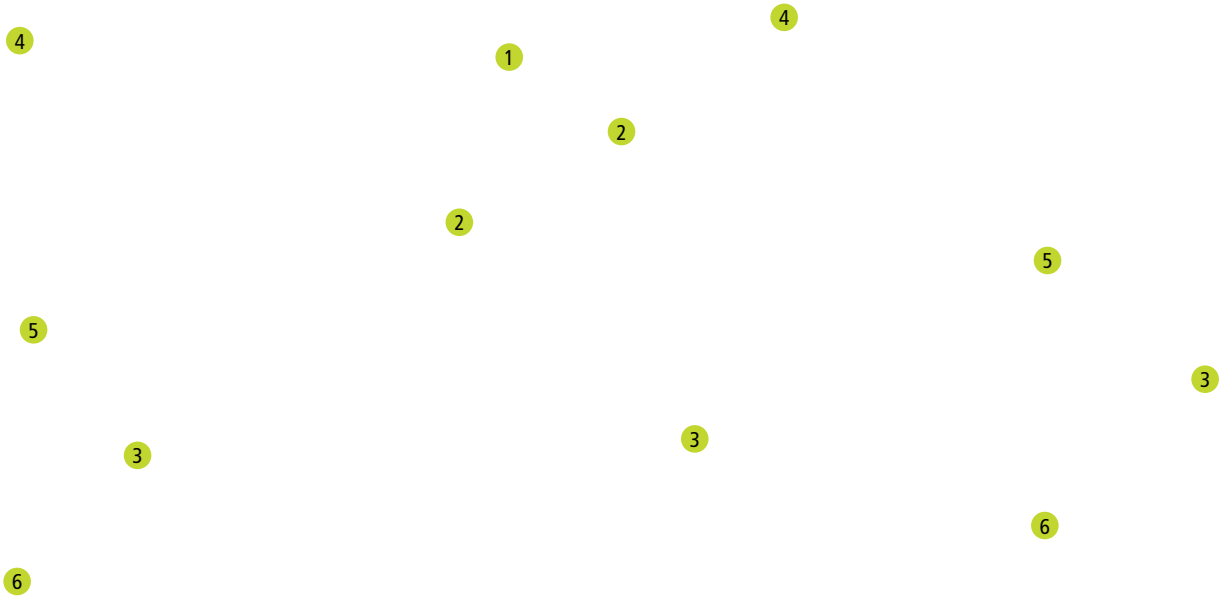
**We connect.™**







# Data Centre Equipment X-Connect



Equipment Racks  
Servers  
SAN Directors  
Storage Arrays

Equipment Racks  
Switches  
Gateways  
Fabric Extenders  
NAS  
Storage Arrays

IFDF / OFDF X-Connect  
Within Pod  
Attached to Pod  
External to Pod

## KEY

1. IFDF
2. MTP-LC IFDF Module
3. LC-LC Patch Cable
4. Structured MTP Cabling
5. ToR MTP-LC Patching Field
6. Active Equipment

## Overview

- Low link / channel loss performance
- Large range of cable colours
- Extra high density



# MTP Cabling Solutions

MTP pre-terminated cables and cassettes offer a scalable cabling solution ideally suited for data centre cabling architectures. With reliability and manageability critical in the world of 'Big Data', data centre cabling must be able to support a huge array of existing and evolving technologies.

AFL's MTP cabling solution is designed and manufactured to support:

- Duplex and parallel optics 10 / 40 / 100 / 400 Gig E and Fibre Channel
- P2P – point to point and single backbone cabling
- Dual backbone networks with X-Connects
- Back to back and back to front X-Connect designs
- Hybrid 10G – 40G networks
- Fibre options – OM4, OM5 MM and OS2 SM.

AFL's range of 8 / 12 / 24F MTP solutions utilise MC (MicroCore) cables and bundled assemblies. These cable options offer a diverse choice in design and installation application.

Low channel losses, as defined in ISO/IEC 11801, can be achieved with the use of AFL terminated MTP connectors and cables.

## XHD and HD MTP Range

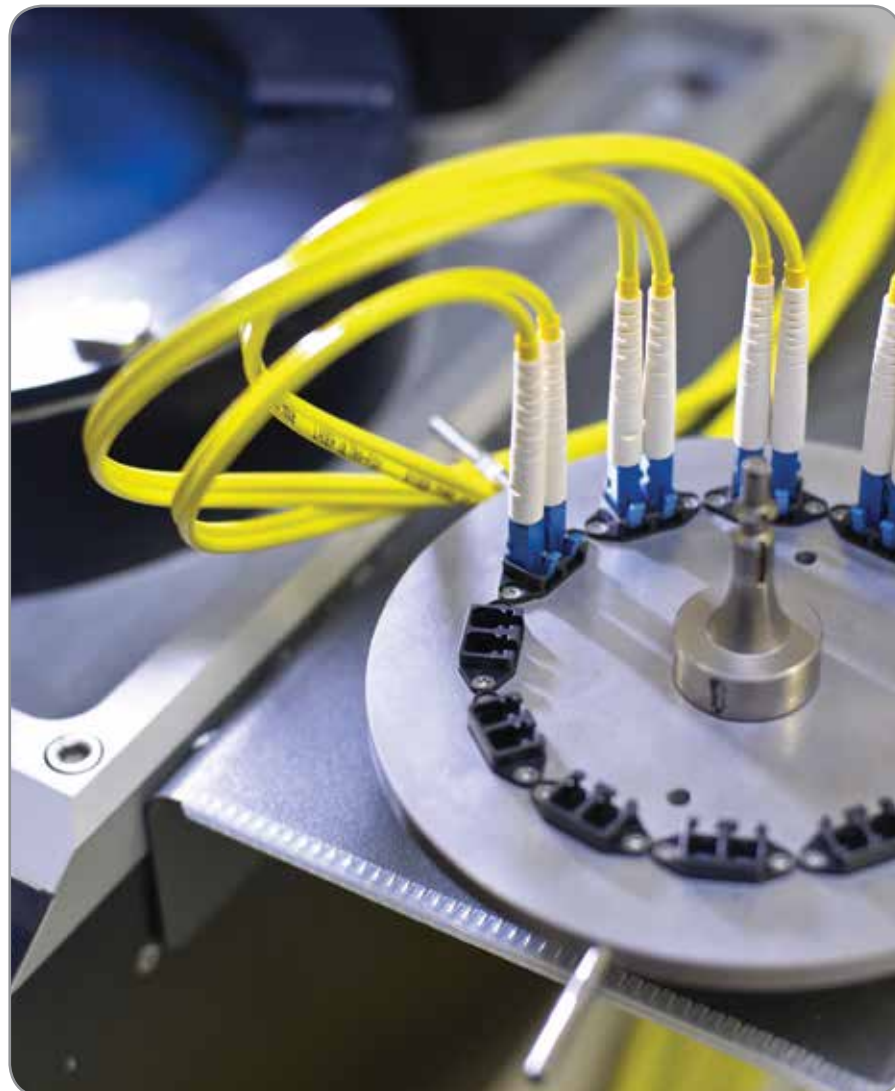
AFL's XHD and HD range MTP enclosures and cassettes offer a high density patching solution in both fixed and sliding designs. Available in 1RU and 3RU variations, these enclosures are designed to allow high volume patching and access of MTP and LC cables. Front mount hinged cable trays are standard on sliding enclosures and optional on fixed enclosures.

- XHD – 1RU / 144F and 3RU / 432F
- HD – 1RU / 96F and 3RU / 288F
- 2 x 12F (24F) cassette design
- Low loss MTP and LC insertion loss
- OM4, OM5 and OS2 SM fibre options

# Pre-terminated Fibre Cable Assemblies

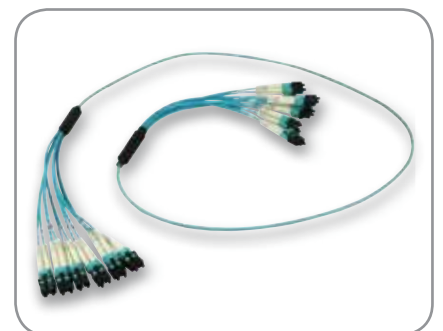
AFL manufactures a broad range of factory terminated and tested multi-fibre cable assemblies. These assemblies are available in various fibre types and counts, cable constructions and connector options. Pre-terminated fibre optic cable assemblies are suitable for horizontal or vertical deployment in a range of applications.

Pre-terminated cables offer the advantage of reduced time and cost associated with on-site cable breakout and connector terminations. They are ideally suited where narrow installation time-frames are applicable or on-site terminations are hazardous or pose OH&S issues.



## Overview

- Low loss performance
- Large stocked range
- Geometry-compliant connector end-faces
- 100% tested and certified



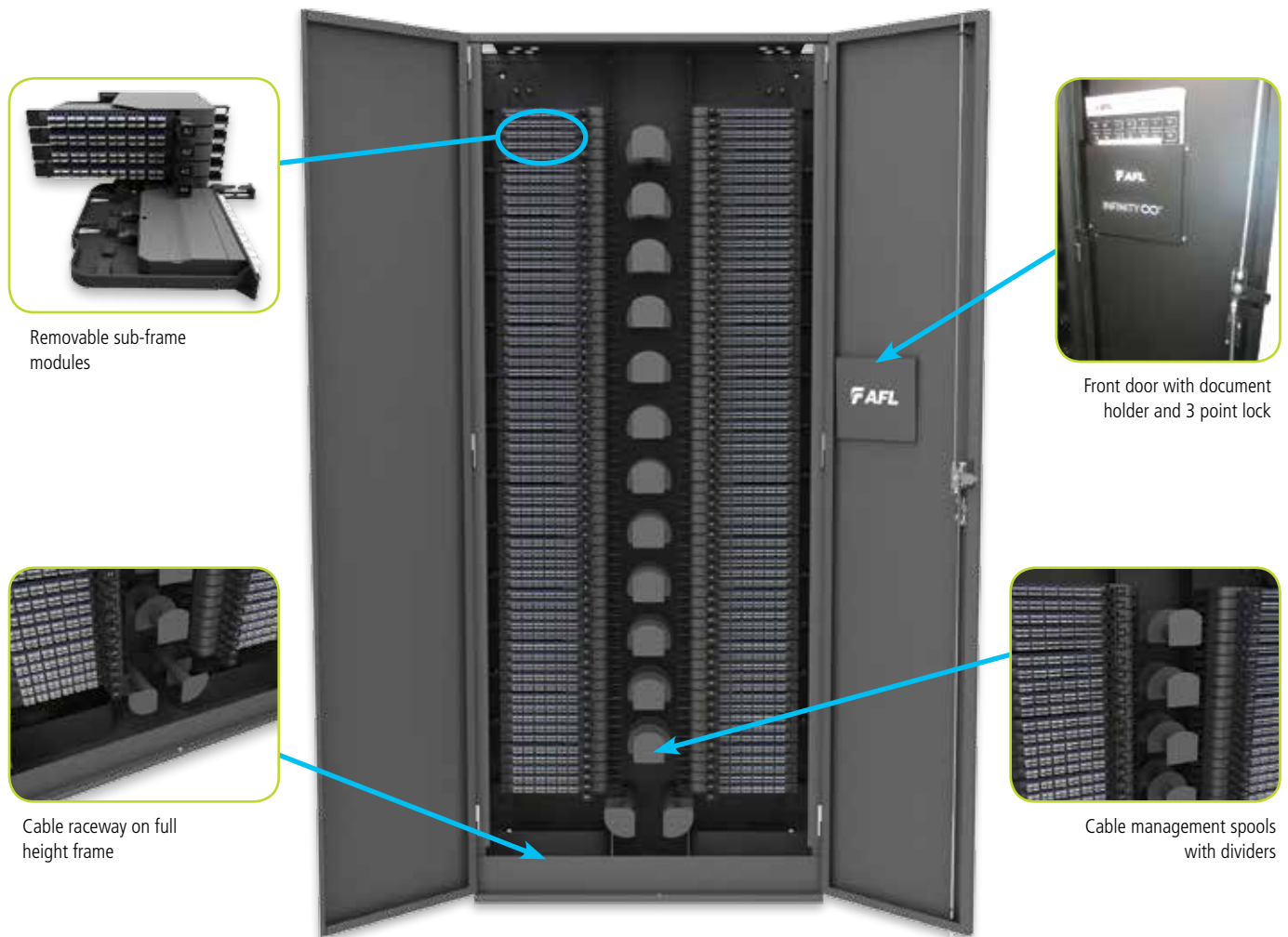
# INFINITY™ Fibre Distribution Frame

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, totalling 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.

## Fully Loaded Frame with 26 Sub-Frame Modules





# Optical Fibre Distribution Frame

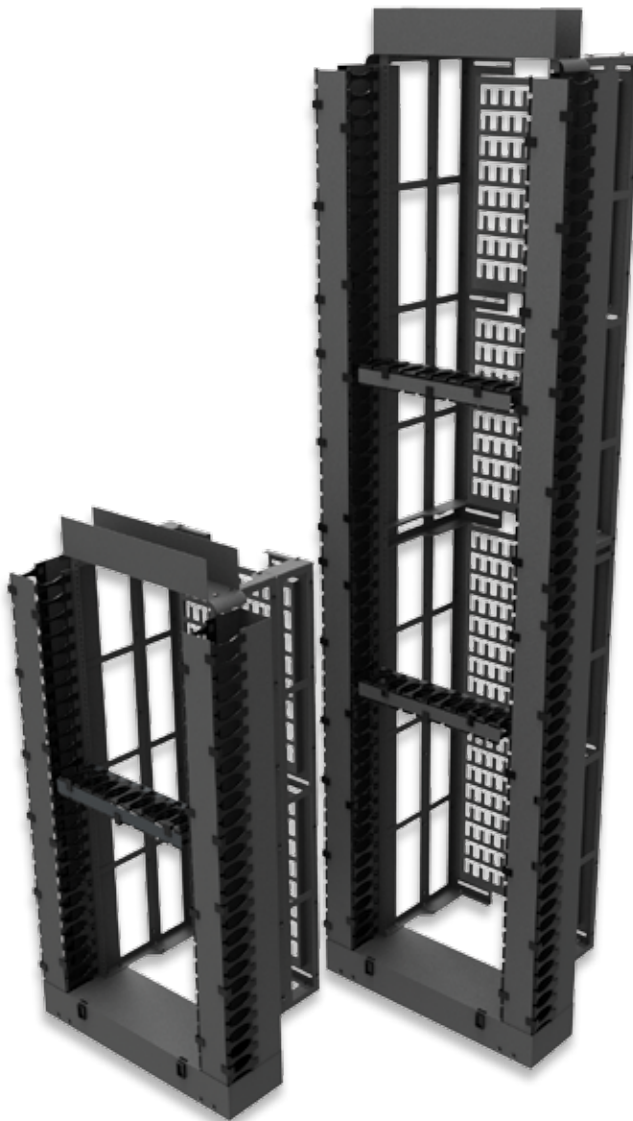
Our wall mount Optical Fibre Distribution Frame (OFDF) offers an alternative patching or cross-connect option to traditional free standing 19" racks. The OFDF is ideally suited to environments such as co-locations or any environment that has limited real estate. This 'out of row' patching architecture allows for greater utilisation of equipment racks.

In standard depth form, the wall mount OFDF is perfectly matched to our low-loss MTP cabling system or pre-terminated cable assemblies.

The expanded depth wall mount OFDF suits a broader range of installations such as copper patching, splice and patch, and our unique spliced MTP cross-connect system.

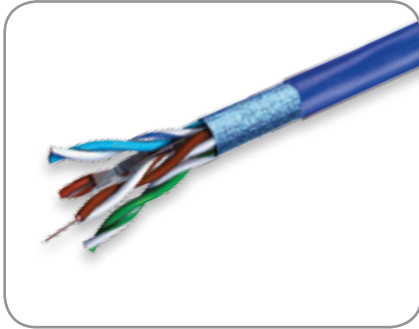
## Overview

- Reduces valuable rack real estate usage
- Passive design can be located in any location
- Increases rack cooling efficiencies



## Overview

- Best in-class performance
- Wide range of colours
- Fully compliant to International standards



# VELOCITY™ Copper Cabling

The VELOCITY™ copper cabling system offers a high performance copper network infrastructure for next generation data centres and storage area networks. Our VELOCITY™ cabling solutions deliver outstanding system performance, having been developed using a standards-based method of component compliance and interoperability. This solution is ideal for operating over 10 Gigabit, with the security and reliability of shielded cabling. Designed to provide the ultimate in throughput, this solution provides the best value and performing link and channel available. The shielded solution eliminates RFI and EMI, and all alien crosstalk concerns.

If installation time is of concern, we can provide factory-terminated and tested cable assemblies, ensuring reliability, performance and compliance to International Standards.

AFL offers you the flexibility to have one end or both ends terminated for use in cross connects, or consolidation points.

Pre-terminated cables offer the advantage of reduced time and cost associated with on-site cable terminations. They are ideally suited where narrow installation timeframes are applicable or on-site terminations are hazardous or pose OH&S issues. As these are configured specifically to customer requirements, call one of our local offices for advice and pricing. AFL stock a large variety of copper cabling products all around Australia ensuring rapid delivery.

# Certified Site Guarantee

Our industry leading Certified Site Guarantee (CSG) provides 20 year performance assurance for your cabling infrastructure.

All CSG projects are installed, commissioned and tested to International and Australian standards, providing peace-of-mind that your cabling system will provide trouble-free communication well into the future. All installations are completed by one of our Certified Business Partners (CBP). We ensure our CBPs are briefed and knowledgeable with the specific requirements for the project at hand. Site-specific training may be recommended by AFL and can be provided at any time during the project. AFL provides ongoing support for our CBPs throughout the entire project. This ensures the highest possible cabling performance is achieved.

Before sign off, we conduct an industry and standards based final site inspection. Network owners, operators and consultants are welcome to attend.

All test results are then forwarded to AFL technical services staff for a full audit.



# Certified Business Partners

The AFL Certified Business Partner (CBP) Program has been designed to provide our valued customers with the peace of mind that their cabling system will continue to perform for more than 20 years.

Our CBPs are fully qualified cabling integrators hand-picked by AFL based on their knowledge and experience in the market. All CBPs are trusted to install AFL products to local and international standards.

Aligning our business culture and goals with our CBPs enables us to provide a seamless service experience for our customers.

At AFL we supply high quality products designed specifically for different market solutions. From Enterprise to Telecommunications and Industrial to Infrastructure, we work with our CBPs to ensure the best possible solution for each end-user's needs.

From the initial site inspection and specific site education, through ongoing site inspections and review of the final test results, we're there with our CBPs all the way.

We look for professionalism, integrity and honesty within our CBPs and our own business... no one else comes close!





1300 232 476 | [AFLglobal.com](http://AFLglobal.com)

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**ANZ Head Office**

93-97 Merrindale Drive  
Croydon South VIC 3136  
AUSTRALIA  
TEL: +61 3 9737 4200

**Sydney**

13/14 Boden Road  
Seven Hills NSW 2147  
AUSTRALIA  
TEL: +61 2 9421 4200

**Canberra**

3/7 Beaconsfield Street  
Fyshwick ACT 2609  
AUSTRALIA  
TEL: +61 2 6143 2300

**Cable Manufacturing**

100 Olympia Street  
Tottenham VIC 3012  
AUSTRALIA  
TEL: +61 9316 8300

**Newcastle**

TEL: +61 416 652 749

**Brisbane**

2/50 Borthwick Avenue  
Murarrie QLD 4172  
AUSTRALIA  
TEL: +61 7 3292 1400

**Adelaide**

1/151-153 Gilles Street  
Adelaide SA 5000  
AUSTRALIA  
TEL: +61 8 8223 1919

**Perth**

1/32 Robinson Avenue  
Belmont WA 6104  
AUSTRALIA  
TEL: +61 8 6253 2200

**Auckland**

8/11 Orbit Drive  
Rosedale, North Shore  
Auckland 0632  
NEW ZEALAND  
TEL: +64 9 927 7140

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AFL Copper Products

**INFINITY** ™  
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