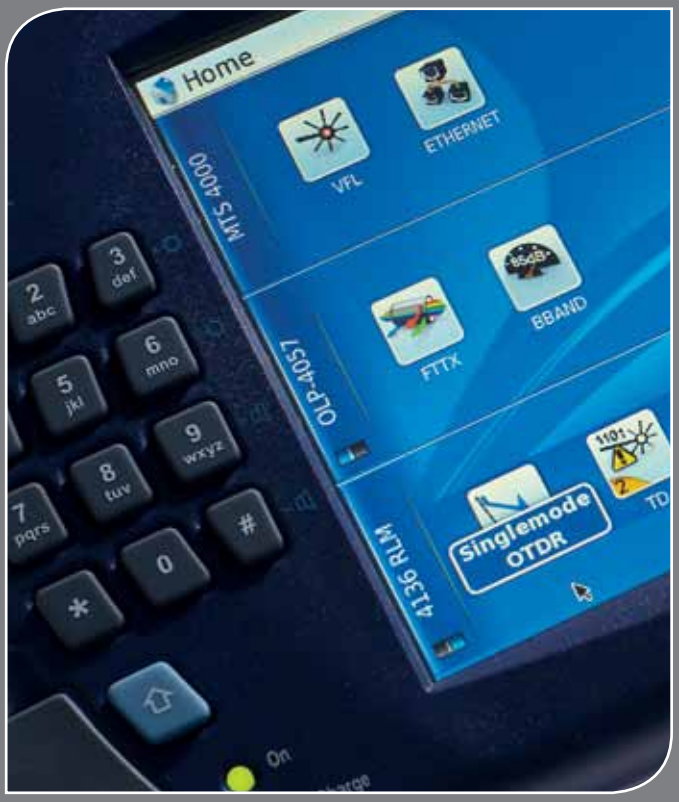

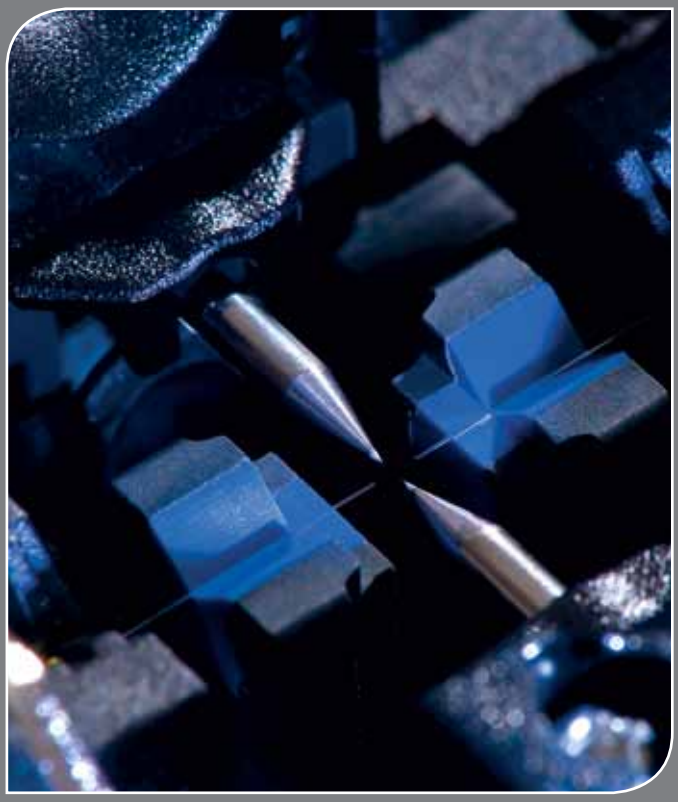

INSPIRATION • INNOVATION • INTEGRATION

Termination and Test Solutions

Australian Fibreoptic
Communications

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System Settings
Expert Tools
App's
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JDSU

Deploy networks and optimise services

AFC provides a wide range of test instruments and fibre splicing solutions to suit a range of applications from telecommunications transmission and backhaul to access and enterprise environments.

Our portfolio includes a comprehensive product range to suit all your termination, testing and installation requirements.

- Fujikura fusion splicers and precision cleavers
- Fibre identifiers
- OTDR's
- Loss test kits
- PON testers
- Video inspection
- Cable certifiers
- Network and protocol analysers

All products are supported by our technical services facility which provides service, repairs and support for all products nationally.

Complementing our termination and testing products is a wide range of tools, accessories and consumables including;

- Bare fibre adapters
- Reference grade launch leads
- Reference grade test leads
- Connector cleaning products
- Fibre tooling and tool kits
- Consumables

Fusion Splicing

AFC is proud to be Fujikura's exclusive sales and support partner for Australia, offering sales and service for all Fujikura fusion splicers from our Melbourne based technical services facility and national branches. Since 1979, Fujikura has been the world leader in fusion splicing technology developing the Profile Alignment System (PAS), a technology which quickly became the industry's preferred alignment system as well as the worlds first ruggedised fusion splicer and the worlds first ribbon splicer.

Today, Fujikura fusion splicers represent approximately 70 percent of the market world wide, testament to its status as a technology leader.

Single Fibre Core Alignment Splicer

The Fujikura FSM60S fusion splicer is the industry benchmark in core alignment fusion splicing. Delivering consistent low splice loss performance, the FSM60S is the preferred splicer of carriers and tier one specialist fibre installers.

Ribbon and Single Fibre Cladding Alignment Splices

Fujkura manufacture a range of cladding alignment fixed V-groove fusion splicers for splicing of single or ribbonised fibres.

SpliceMate

Fujikura's smallest and lightweight fusion splicer, the SpliceMate fits in the palm of your hand. SpliceMate is available in single fibre or four fibre ribbon configurations and is ideal for FTTH applications.

ARCMaster Specialty Splicers

Fujkura's 'State of the Arc' ARCMaster fusion splicers are the worlds most advanced splicing machines. Designed for laboratory, manufacturing and R&D applications the FSM100M and FSM100P series splicers offer a host of innovative technologies to address rapidly expanding splicing needs for various specialty fibre types including LDF and low contrast PM.

Precision Cleavers

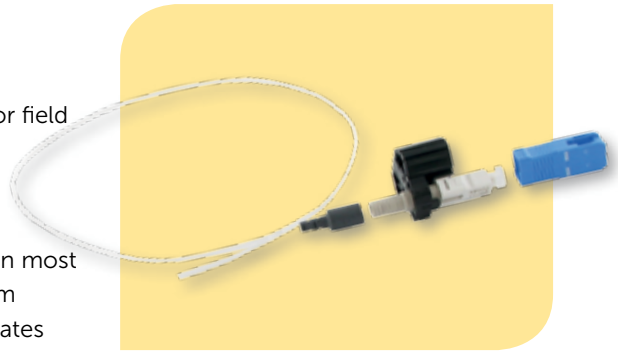
To complement our portfolio of fusion splicers, we also sell and service a range of precision cleavers for both single and ribbonised fibres as well as angled cleavers for termination of angled mechanical connectors.

Specialty Accessories

Designed for high demand, advanced fibre preparation, testing and analysis, AFC offers a range of specialty accessories such as fibre recoaters, fibre preparation machines and cleave meters.

Field Connectorisation

Whether you require epoxy based, mechanical or spliced fibre termination, AFC provides a range of products and associated tools and consumables for field connectorisation of optical fibres.



Fujikura FuseConnect

Fujikura's FuseConnect is a splice-on, pre-terminated connector available in most common connector formats including MPO and suits 250µm, 900µm, 2mm and 3mm cord types. FuseConnect's innovative termination process eliminates the need for epoxy or field polishing while delivering excellent optical and mechanical performance.

Pre-Polished Mechanical Connectors

AFC offers Fujikura FAST connectors and 3M No Polish Connectors for quick, easy and reliable termination of singlemode and multimode fibres on 250µm and 900µm fibre types as well as 2mm and 3mm cordage. All common connector types are available including APC and PC polish options.

Mechanical Splicing

AFC offers Fujikura SpliceConnect and 3M Fibrlok mechanical splicing technologies for cost effective and easy termination of singlemode and multimode 250µm and 900µm fibres.

Epoxy based termination

Where epoxy based termination is required, AFC provides a range of anaerobic, oven cured and hot melt epoxy options for cost effective termination of singlemode and multimode connectors.

Termination Kits

AFC offers a full range of tools, tool kits and termination kits to suit your exact field termination and cable preparation requirements.

Test and Measurement

As an authorised partner of JDSU and Kingfisher, AFC offers a comprehensive portfolio of test and measurement products for testing and certification of fibre and copper networks.

AFC can provide specialist advice on test methodologies, optical performance standards and the range of test instruments and accessories available.

From loss test sets to OTDR's and fibre identifiers to fibre characterisation, we can customise a solution to meet your exact testing requirements.

Backed by our technical services facility, AFC provides after sale support for all test instruments as well as operating a national pool of short term hire products.

Light Sources and Power Meters

Hand held optical light sources and power meters for insertion loss, return loss and FTTH PON testing are the most common instruments used for link testing.

- Light sources
- Power meters
- Loss test sets
- PON power meters
- Broadband sources
- Channel checkers
- Uni and Bi-directional testing
- SM, MM and combined sources
- Storage and reporting

OTDR

AFC has a range of mainframe and module options to suit OTDR testing of singlemode and multimode cable installation. Modules are available in various wavelength and dynamic range configurations to suit a variety of test requirements.

- SM, MM and SM/MM OTDR modules
- Filtered modules
- FibreComplete automated testing
- Loss testing options
- Fault finders
- PON modules

Advanced Fibre Testing

AFC also offers specialist test products to suit advanced testing of fibre and communication networks.

- Optical spectrum analysers
- PMD, CD and AP fibre characterisation
- Optical channel checkers
- ROADM
- 40G/100G testing

Datacomms and Telecomms Testing

Hand held and scalable transportable mainframe options for comprehensive testing of all transmission and data communications networks.

- SDH, Sonet, ATM, PDH, PON
- WiFi
- BERT
- Carrier and Enterprise Ethernet
- RFC, ITU, OAM tests
- Traffic generation and analysis
- Data capture and protocol analysis
- Triple Play
- Service Assurance
- Mobile Backhaul

Copper Testing

Test, validate and certify LAN installations using our range of hand held copper LAN testers.

- BER, SNR and skew testing
- Speed test
- UTP/STP and coaxial cable

Connector Inspection and Cleaning

Video Inspection

As fibre is more commonly and more deeply deployed throughout communication networks, the impact of dirty or damaged connectors is more prevalent. Inserting contaminated or damaged connectors into optical networks not only introduces additional loss and back reflection, but can also cause damage to transmission or test equipment.

AFC provides a comprehensive portfolio of video inspection and cleaning products to identify connector damage or contaminants to ensure mated fibres are free from contamination and defects prior to connection. Our video inspection and cleaning kits support the standard and specialty range of fibre optic connectors.

- Hand held coaxial and oblique illumination
- Analogue video inspection
- Digital IEC based inspection with automated pass/fail
- Bench top laboratory scopes
- Standard and specialty inspection tips

Connector Cleaning

AFC stocks a wide range of wet and dry based connector cleaning products for efficient and effective removal of contamination from connector end faces.

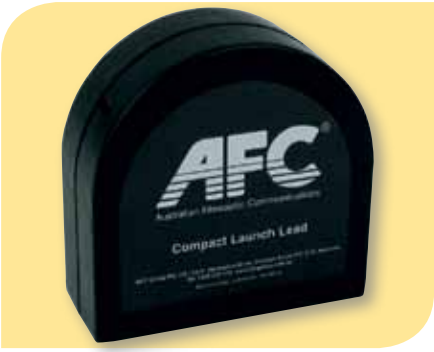
- One click cleaners
- Cleaning sticks
- Cleaning wipes and fluid
- MTP, MPO and specialty cleaners
- Optitap and Optitip connector cleaners

Cleaning and Inspection Kits

Cleaning and inspecting on the move? AFC also provides standard and customisable kits in ruggedised travel cases for quick, easy and safe transportation of your consolidated inspection and cleaning products.

Accessories

Test Leads



Complementing our range of optical test and measurement products, AFC offers a range of reference grade test leads to ensure all testing complies with the relevant IEC/ISO testing standards.

- Compact and ruggedised reference grade OTDR launch leads
- Insertion loss and link loss reference grade test leads
- Reference grade test lead kits
- Modal launch controllers

Accessories

To ensure we provide the complete test solutions, AFC offers a range of complementary test accessories.

- Bare fibre adapters
- Visible fault locators
- Traffic identifiers
- Cable and fault locators
- EMS markers and locators

Tooling

AFC has an extensive range of tooling to suit all fibre optic applications. All tools can be used for on-site termination as well as in-house production facilities. Each tool is tested by AFC to ensure efficient and reliable operation.

- Cable and tube cutters
- Fibre and cable strippers
- Kevlar shears
- Tube strippers and slitters
- Tool kits

Consumables

AFC's national offices stock a range of consumables giving you ready access to products to keep you working in the field.

- Gel cleaning kits
- Lint free and Isopropyl wipes
- Splice protectors
- Heavy duty wipes
- Cable markers

About AFC Group

AFC Designs, Manufactures and Integrates Fibre Optic Communication Solutions. We are an Australian owned and operated company with 20 years industry experience servicing our customers through a National and International branch structure. We work with a broad range of industries from data centres to underground mines, providing high quality innovative communication solutions. We have a passion for our products, our business, and our customer relationships. We strive to create professional partnerships that you can trust to deliver value in a custom built communication solution backed by an industry leading 20 year warranty.

Innovation and expertise

Innovation and product development is at the core of our business. We constantly improve and enhance our product range, always looking for a better solution. One organisation may have very different fibre optic needs from another. We listen to our customer's needs and supply customised solutions.

We operate our own high tech manufacturing facility in Melbourne which means we respond quickly and keep lead-times to a minimum. With two decades of experience, we have extensive technical knowledge and fibre optic expertise – crucial for getting the job done right the first time.

How we're different

We're passionate about everything we do – from the products and integrated solutions we provide to caring for our customers, staff and suppliers. We believe in supporting the people we do business with by building mutually beneficial relationships. For us this means sharing our extensive knowledge and providing exceptional professional service. AFC is proudly Australian owned and with our 'can do' culture we always strive to 'do it better'; better than our competitors, better than we did it last time, better than anyone else.

We've got you covered

Our head office is located in Melbourne but we operate both nationally and internationally. We have offices and warehouses in Melbourne, Sydney, Perth, Brisbane, Adelaide, Canberra and Auckland, New Zealand. Our warehouses carry a large range of stock, but more importantly we provide you with professional local service and support. All this means we can quickly and efficiently deliver the solution you need, when you want it.

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Australian Fibreoptic Communications

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