



Product guide

Fiber

FiberGuide System

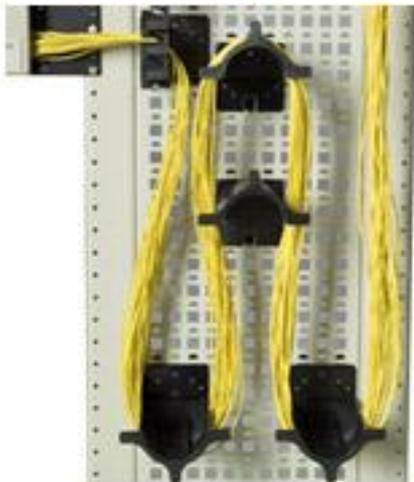
The FiberGuide fiber raceway system sets the industry standard for optical raceway products. It consists of a complete set of standard components designed and manufactured to ensure total off-frame protection and ease of use.



Features

- very rigid
- self-supporting
- fewer ceiling fixings than other systems (saving many hours of installation time)
- 50mm minimum bend radius maintained throughout
- adds and changes without cutting, crushing or disturbing existing cables
- tool-less SnapFit™ junctions and cover options

RiserGuide System



Because cable management requirements change with network requirements, TE Connectivity also offers the RiserGuide System.

Features

- vertical fiber cable management
- flexible
- modular
- easy to install and remove



Optical Distribution Frames

Control your costs – add density, conserve space, maintain flexibility

As the number of installed fibers grows, so do the demands on optical distribution frames (ODF). Increasing the optical distribution frame density can provide significant cost-savings to the service provider. TE Connectivity has designed modular and expandable optical distribution frames that technicians find easy to work with - while still meeting the planning engineer's high density requirements.

FIST-GR3

FIST blue label rack

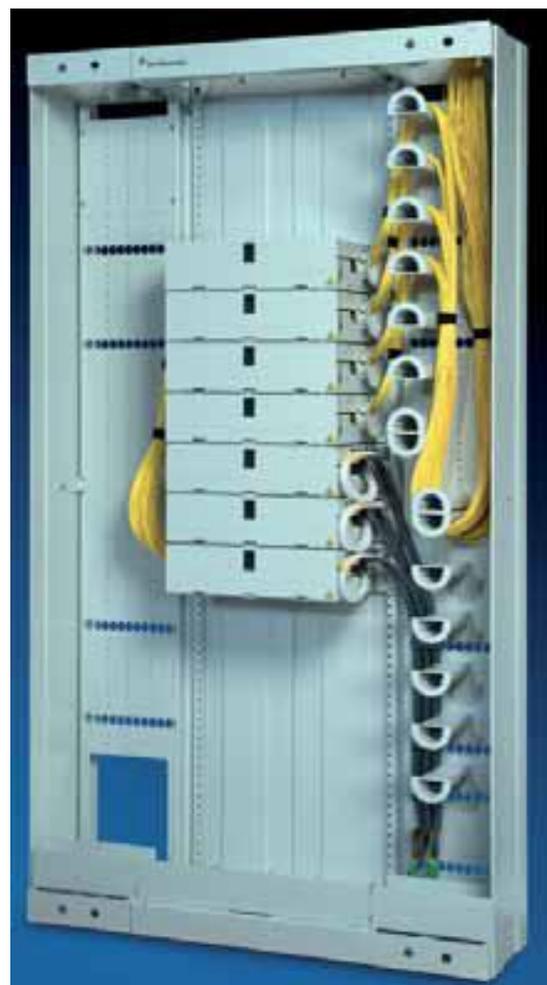
FIST-GR3 is an all purpose, easy to install, metal rack designed to accommodate the FIST fiber management system in an exchange, head-end or customer premises environment.

FIST-GR3 is typically used to house connector panels and separate shelves for splicing, patching, equipment and devices.

The rack is designed to allow proper management and storage of overlengths of pigtailed and patch cords.

Features

- Compatible with TE Connectivity's FIST-GR2 and FIST-GSS2/GPS2 range
- Bend control on all fiber routing
- A structured division and distribution of the cable elements
- Depth and width in accordance with ETSI
- ETSI mounting profiles with cage nuts for shelf mounting are provided at the rear of the rack, allowing optimal access from the front
- Possible horizontal and vertical patch cord management (HPM and VPM) for storage of functional patch cord overlength
- Possible horizontal and vertical patch cord storage (HPS and VPS) for excess patch cord overlength between the shelves and either the equipment or adjacent racks

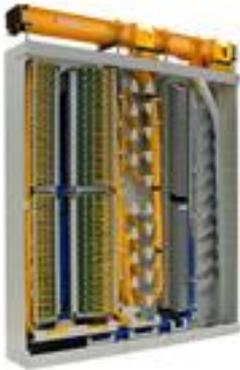




More than just a connection

- Easy to transport, store, handle and install thanks to compact design
 - Available from stock
 - Less packaging wastage
 - Universal installation manual (drawings/no wording)
 - A wide variety of options
 - Cable attachment plates are integrated in the top/bottom of the side duct
 - Easy access to cables, pigtails and jumpers during installation, maintenance and upgrade
 - Easy adaptation to specific applications by variation of the rack configuration, the shelf configuration and routings of pigtails and jumpers
 - Various mounting options
 - Wall mounting: stand alone or multiple side-to-side mounting (optional kit)
 - Back-to-back mounting
- For sizes and dimensions: see ordering guide.

Optical Distribution Frame with Fame® Technology

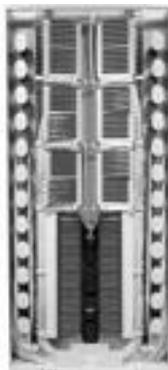


FAME® technology features a splice cassette system (either single circuit or single element), with built-in cable guide elements that allow easy fiber jumpering between cassettes. The cassettes' design prevents motion of loose tubes and any other fibers during routine operations or repairs.

The ODF with Fame® Technology

- terminates and splices up to 1440 fibers in an 1800 x 1500 x 300mm footprint (1752 in a 2200 x 1500 x 300mm footprint)
- protects fiber cable and connections
- maintains correct bend radii throughout the frame

OMX – Optical Distribution Frame



The OMX optical distribution frame requires front-only access and can be installed back-to-back or against a wall to save valuable floor space with up to 864 fibres per frame.

Fiber subracks

Modular management for fiber flexibility

Flexibility, accessibility, small footprint and economy are high on a carrier's priority list when it comes to fiber cable management and distribution frames.

TE Connectivity's comprehensive fiber patch panel and frame product range satisfies all of these requirements. We provide carriers around the world with a complete line of modular panels and boxes developed for cabinet, rack and wall mounting. The modular design offers maximum flexibility to satisfy both current needs and future growth requirements. A full line of options and accessories ensures compatibility with existing optical equipment.



Fiber management trays (FMTs) offer four different designs for optical fiber management:

- Termination
- Termination and splicing
- Termination and storage
- Slack storage

Up to 24 fibers for termination and splicing in one rack unit 19" and ETSI mounting.

FMTs also accommodate [Value-Added Modules](#), incorporating monitor, splitter and wavelength division multiplexing components.

FIST-GPS2

FIST generic splice/patch shelf

The Generic Splice/Patch Shelf FIST-GPS2 is a mechanical shelf assembly for the FIST fiber management system in a rack environment. FIST-GPS2 is typically used in conjunction with FIST splice and patch trays (FIST-GPST-12).

- **To patch**

- Between patch cords.
- Pre-connectorized break-out cable to patch cords
- Pre-connectorized intrafacility cable to patch cords.
- Ribbon pigtail to patch cords.

- **To splice**

- Loose tube cable to pigtails and patch these pigtails to patch cords.
- On pre-connectorized intrafacility cable to pigtails and patch these pigtails to patch cords.
- Non pre-connectorized break-out cable to pigtails and patch these pigtails to patch cords.

The unit has the following features

- Can be installed in TE's FIST racks and other 19" or metric (ETSI) racks
- Available in different heights and capacities
 - 167 mm high version: max. 8 trays
 - 125 mm high version: max. 6 trays
 - 88 mm high version: max. 4 trays
 - 44 mm high version: max. 2 trays

Each tray can accommodate 12 standard or 24 small form factor connectors.

- Full patching capability on the tray and between the trays of one shelf. Patching trays are used instead of front patch panels:
 - Patch cords are better managed in a horizontal plane.
 - Full access at both sides of the connection.
 - Re-connection to other positions in the same tray or shelf does not result in uncontrolled overlengths.
- The 88, 125 and 167 mm version has a wraparound side panel and patch cord





More than just a connection

guide for improved access.

- Various connector adapters can be located in the patching area.
- Kits to attach cables at the side or the back of the shelf are available.
- Optional jumper overlength storage facility.

FIST-GSS2

The FIST generic splicing shelf, FIST-GSS2, is a multi-purpose mechanical shelf assembly for the FIST fiber management system in a rack environment.

The product is typically used to store

- splices of external to external/indoor cable.
- splices of external/indoor cable to pigtails.
- splices of pigtails to pigtails.

Features

- Can be installed in TE Connectivity's FIST racks and other 19" or metric (ETSI) rack sizes.
- Accessories are available for termination of most common cable types e.g. loose tube, central core, ribbon fiber.
- The UMS (Universal Mounting System) profiles provide the foundation for mounting combinations of SOSA2 (Splice Only Sub-Assembly) and/or SASA2 (Splitter Array Sub-Assembly) modules, which consist of a modular groove plate and trays.
- Kevlar Termination Units (KTU's) can be mounted in the shelf to provide the necessary strain relief when terminating common pigtail types.
- Factory installed fiber-guiding tubes and bend controls allow for easy but controlled access to fibers and splices.
- Wraparound side panel and pigtail guide for easy addition of pigtails.



Closures

TE Connectivity's environmentally-sealed closures enable all fiber management functions to take place in the external network between the exchange and the fiber termination point. Designed for cable chamber, track, and spur joints as well as external nodes, TE's closures are independent of network topology, are compatible with all cable types, and can be tailored to almost any required configuration. Total fiber management can be maintained throughout.

FIST-GCO2

The generic closure organizer FIST-GCO2 is an environmentally sealed enclosure for the fiber management system that provides the functions of splice and passive component integration in the external network.

The product can be tailored to almost any required configuration by adding splicing and/or passive device sub-assemblies.

Features

- Single-ended design
- Base and dome are sealed with a clamp and O-ring system
- 6 or 16 round entry/exit ports for drop cables and 1 oval port for looped cable.
- The UMS (Universal Mounting System) profiles provide the foundation for mounting combinations of SOSA2 (Splice Only Sub-Assembly) and/or SASA2 (Splitter Array Sub-Assembly) modules, which consist of a modular groove plate and trays
- Compatible with most common cable types: e.g. loose tube, central core, ribbon fiber
- Uncut fibers can be stored as single circuits in trays and/or as cable elements in the storage space between the profiles. Storage baskets are available for mass storage of fibers of central core cable constructions.

The FIST-GCO2-F: flat version

- Sealed with latches and O-ring system
- 6 round + 1 oval port (loop)
- Or 8 round ports
- No storage baskets





FOSC-400

Fiber optic splice closures

The FOSC name has been synonymous with excellence in sealing, fiber management, ease of use, and design flexibility since the FOSC 100 was introduced in 1986.

FOSC 400 closures combine proven fiber management hardware with a highly reliable sealing system.

Base-to-dome seals on FOSC 400 are mechanical for ease of installation and re-entry. Cable seals use a new TE Connectivity's heat-shrink sleeve and hot melt adhesive system that is installed with a hot air gun. Common materials, accessories and practices are used throughout the product line to simplify training, reduce inventory and enhance productivity.



FOSC closures have been engineered specifically for fiber-optic applications. And the difference shows.

FOSC 400 fiber-optic splice closures are available in three sizes:

- FOSC 400 A,
- FOSC 400 B
- FOSC 400 D.

All sizes are designed for use with any cable construction (loose buffer tube, central core tube, loose fiber, ribbon), in any environment (aerial, pedestal, buried, handhole, manhole) and for numerous splice applications (expressed, tap-off, branch and repair).



HT

The hybrid terminal provides a wall, aerial or pedestal mountable environmental and mechanical protection for the copper and fiber optic system that includes the functions of splicing and passive component integration.



Features

- Sealing (IP) rate can be optimized depending on the application. Basic: IP43 for splice-only applications
- Up to 8 x 10 copper connector pairs
- Up to 48 FO splices; compatible with traditional splice protectors and RECORDsplice
- Cable entry section can be optimized for different cable diameters and quantities
- Basket to initially store fiber tubes for future use
- Splicing tray with double storage area to allow transient free customer connection (TFCC)

Patch Cords

TE Connectivity's fiber optic accessories are distinguished by their carrier-grade quality and the unique design expertise that goes into them. They are designed to be used in the real-world environment and to perform decade after decade.

Manufactured with advanced processes, including innovative polishing techniques, epoxy evaluations, serialised tracking, and one of the strictest testing regimes in the industry, TE Connectivity's accessories are made to meet customer-specific network requirements.



The notion that all Fiber Optic Patch Cords are equal is a myth. Sub-standard cords can easily compromise network performance, which is why TE's patch cords are made and tested with strict adherence not only to published standards but also to TE's own strict testing and quality standards.



FIST CAB 3

The outdoor cabinet FIST-CAB3 concept is a flexible cabinet suitable to house active as well as passive equipment in a telecommunications network.

It is constructed out of aluminum profile frames and double wall panels (AlMgSI05). All other elements exposed to external environmental conditions are of stainless steel 304 and 316.

Cabinet dimensions can be elaborated per millimeter according to the specific needs of the customer.

The cabinet concept is modular and allows replacing all different parts in case of damage, caused eg. by car accident. Also the cooling devices can be replaced or exchanged in accordance to the thermal needs inside the cabinet.





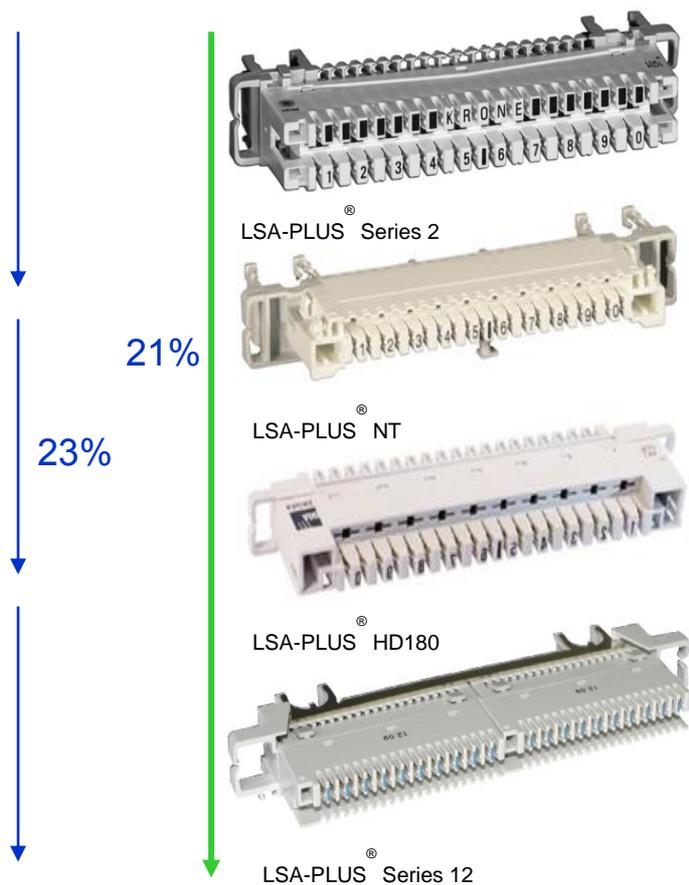
Copper

LSA-PLUS® Series 2

A technically and commercially superior quick connection system for all state-of-the-art networks. Contacts that ensure the highest degree of reliability even under the most adverse environmental and climatic conditions. A completely reliable, gas-tight connection between the contact and conductor. That's LSA-PLUS® technology.

The LSA-PLUS System family consists of a comprehensive and diverse range high density, standard and special modules, mounting hardware, test and patch cords, accessories and protection devices. Voice, high-speed data transmission via ISDN, ADSL, VDSL, cable TV, Internet access, mobile networks. TE's solutions are designed to deliver fast, safe and reliable transmission.

Increase of density

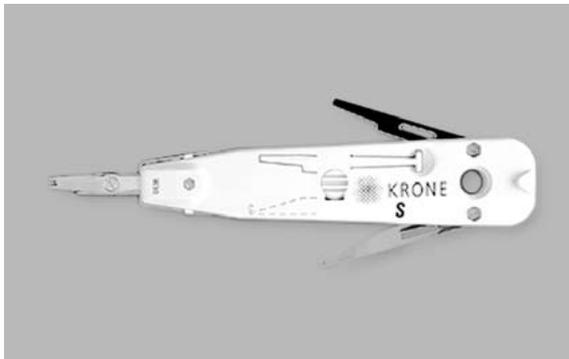


Features and Benefits

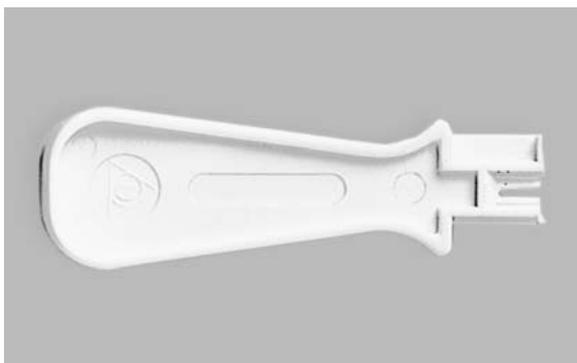
- Wide range of connection and disconnection modules with LSA-PLUS® technology for use in central office and outside plant applications
- Long term robustness and environmental stability due to

- Silver-plating on contacts
- Self-cleaning contact when wire insert into IDC
- Gas tight connection on IDC
- For high-transmission performance (VDSL-transmission)
- Fulfills ICEC and CLEC standards in more than 180 countries around the world
- High-density solutions for space-sensitive applications
- Overvoltage protection
- One insertion tool for all different module types

Insertion Tool with Sensor



Simple Insertion Tool



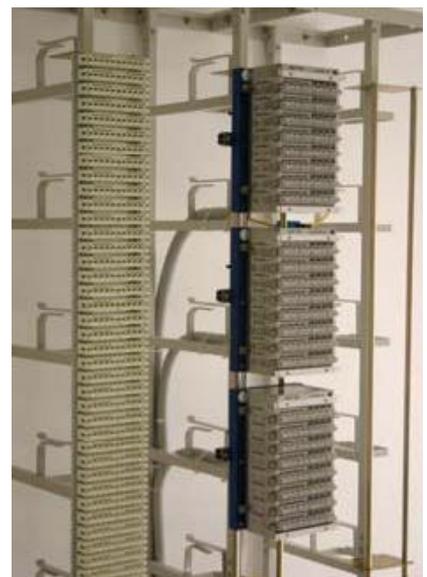
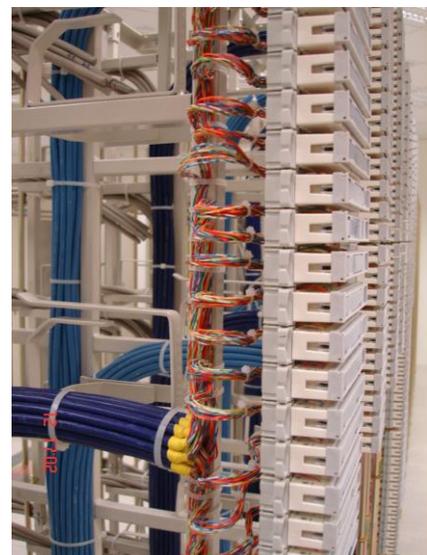


FRAME 800

The Distribution Frame 800 is a LSA Profile Frame column which allows the termination of up to 800 pairs (LSA Series 2) and 1020 pairs (LSA series NT) and 8 additions or up to 8 fixed labels. The frame allows the installation of 10 pair LSA Profile modules. Accessories like Jumper Rings are permanently fixed to the distribution frame and allow the jumper wires to be run between columns horizontally and also vertically. There are two different base sizes to cater for sites that have limited space. Earthing is carried out by either an earth bar across the base of the frame or individual earth wires

Features

- Free standing
- Back-to-back
- Wall mounted (saving space)
- Easily extendable
- High Density
- Large Jumper management
- Accomodates all LSA Profile Technologies
- Flat packed for easy transportation
- Cost effective due to high capacity
- Quick and easy assembly
- New Modules
- Highband 10 and HB8
- 2Mbit abs module
- Usage of the full accessory range of LSA PLUS
- Flat packed for easy transportation





Cabinet 59

Cross-Connection Cabinet for Modular Cable Heads (CCC 59m1/59m2)

This cross-connection cabinet supports a variety of copper and fiber termination equipment. The cabinet design features a removable enclosure, with a “sandwich” wall design that prevents condensation and makes the cabinet suitable for installations in tropical climates.



Features

- Fibre-reinforced polyester cabinet
- Door with espagnolette lock, recessed handle and 4-way locking mechanism 19, one key
- One-door and two-door versions available
- With mounting frame to accommodate the customer's choice of termination modules.

Cable management accessories, a door retainer and document holder are ordered separately.

Specifications

Protection class:	IP 54 according to IEC 529
Cabinet material:	Fibre-reinforced polyester
Metal parts:	Principally nirosta x 5 CrNi 1810
Flammability class:	UL94V-0
Colour:	Grey (similar to RAL 7035)
Temperature range:	-40° C to +80° C