

OmniReach® Quick Launch FTTX Solutions

for Multi-Dwelling Unit Applications



Multi-Dwelling Unit Solutions

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Multi-Dwelling Unit Solutions

Introduction

Fibre-to-the-X (FTTX) network applications increasingly include Multi-Dwelling Units (MDUs) as part of the network build—often accounting for over 40% of the target subscriber base.

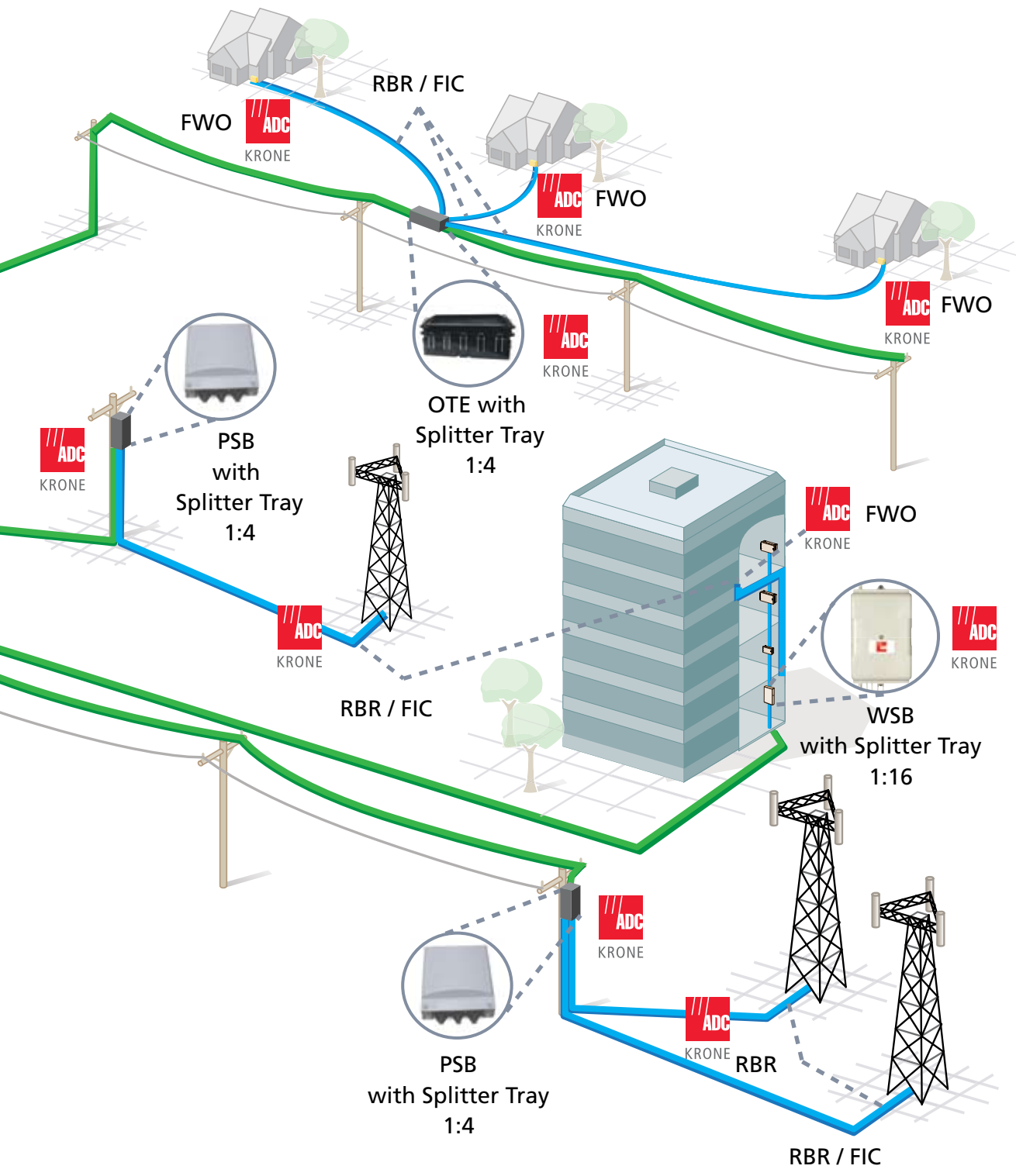
The MDU segment of an FTTX network is the “last mile” or distribution end of the network, representing the demarcation point for electronics and home wiring where the end user is connected in the more densely populated MDU applications (i.e. apartments, town homes, campuses).

ADC KRONE OmniReach® Quick Launch Solutions for MDU Applications provide high performance interconnection of fibre cables and equipment at multiple dwelling units. These solutions support both low and high Fibre count applications and include compact, environmentally protective enclosures, high performance cable assemblies and connectivity components.

With Quick Launch solutions from ADC KRONE, distribution nodes can be added to the network quickly and with increased reliability, reducing overall installation and long-term maintenance costs.

Features

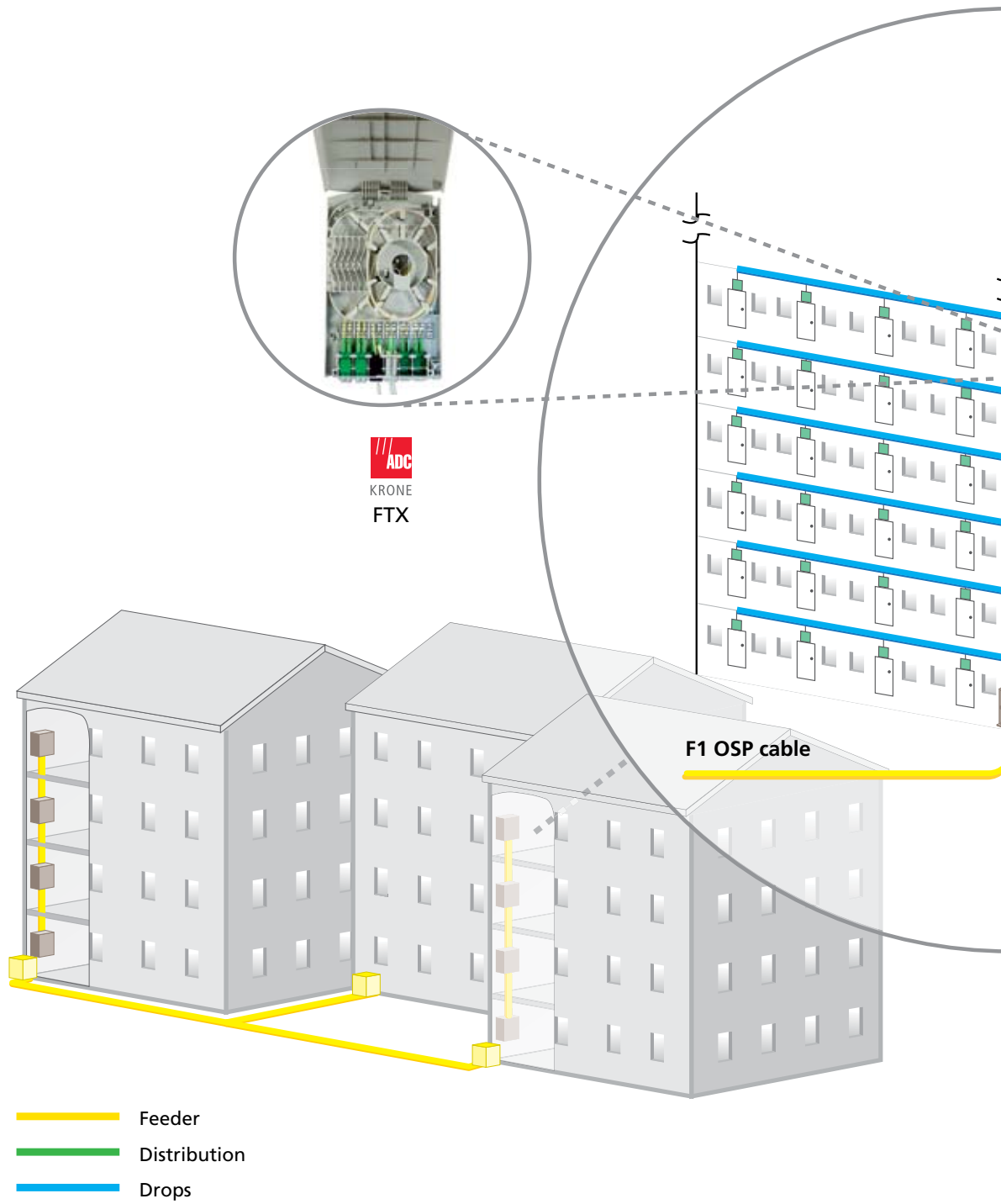
- Provide secure indoor and outdoor environmental protection
- Feature ADC KRONE high-performance components
- Meet rigorous quality assurance standards, and are independently tested and certified to assure reliability
- Feature superior fibre management techniques for flexible re-arrangement
- Accommodate a wide range of fibre counts and mounting/deployment applications
- Available in high-density and low-density configurations
- Designed to be compact and craft-friendly
- Lower installation costs and accelerate construction of fibre network connections

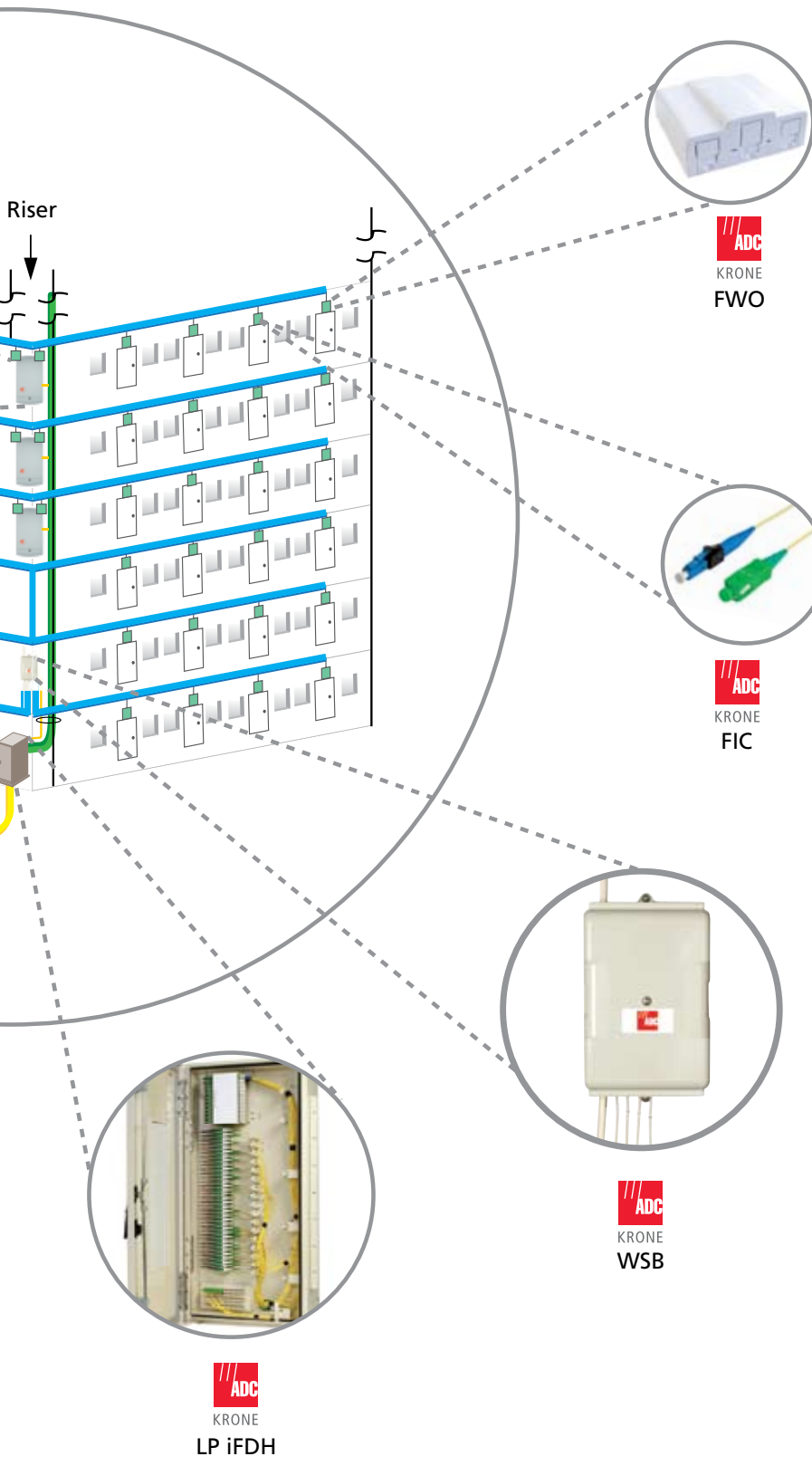


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MDU Architecture

OmniReach® Quick Launch FTTX Solutions





ADC
KRONE
FWO

ADC
KRONE
FIC

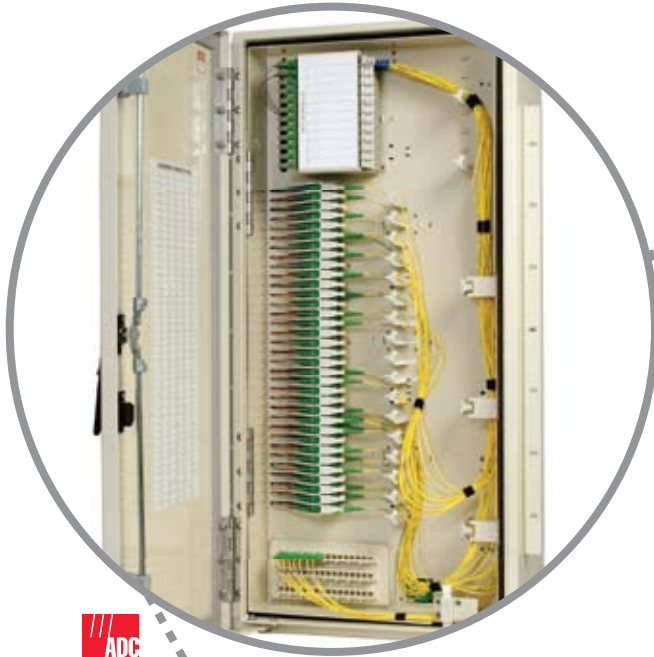
ADC
KRONE
WSB

ADC
KRONE
LP iFDH

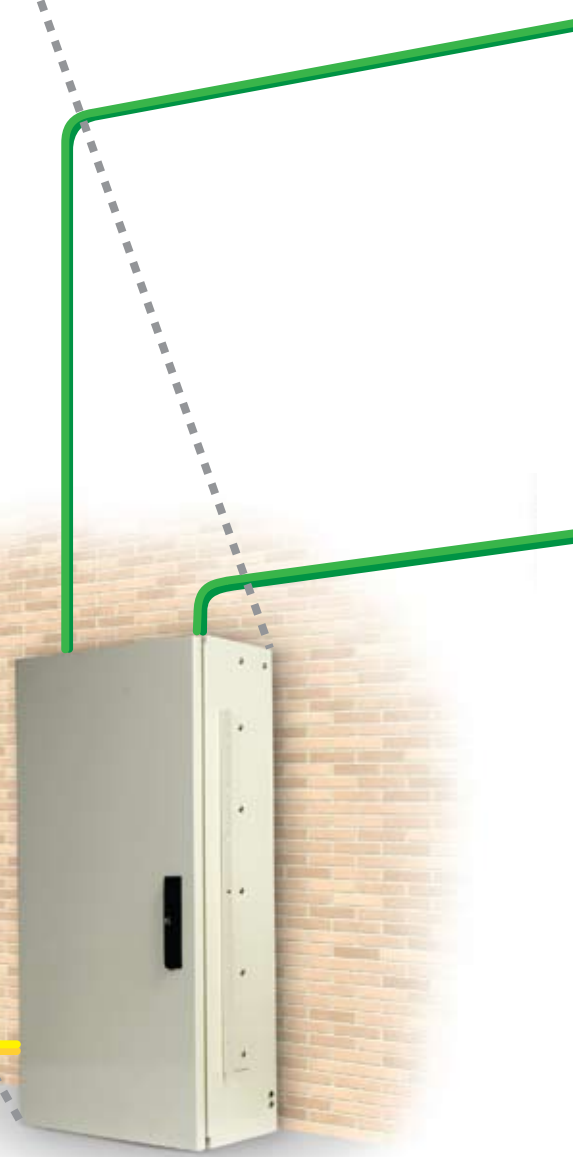
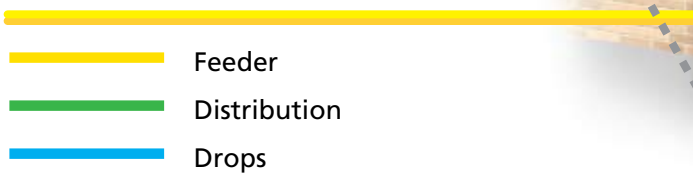
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Indoor Distribution Architecture

OmniReach® Quick Launch FTTX Solutions

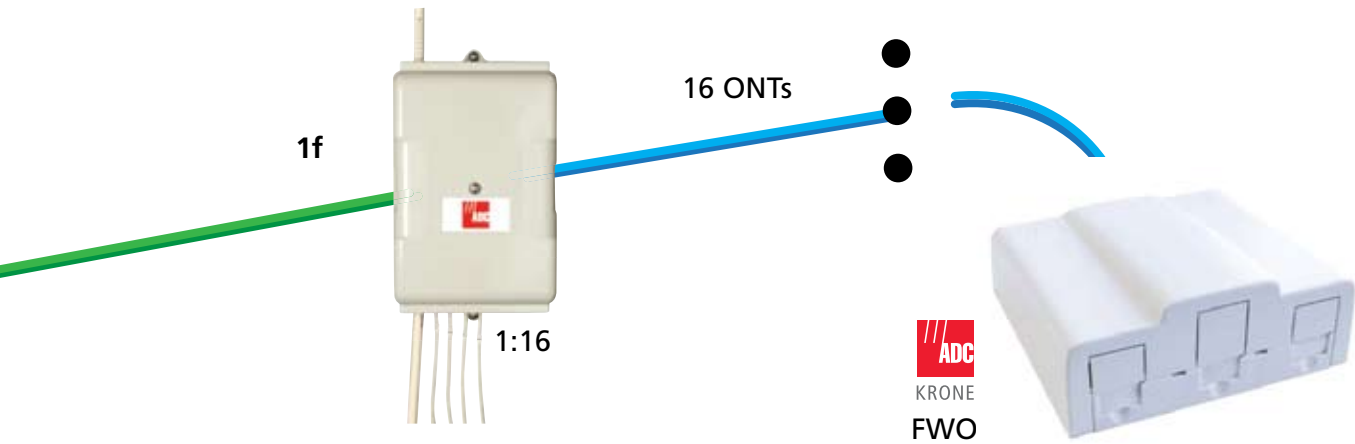


Feeder Fibre (F1) Entrance

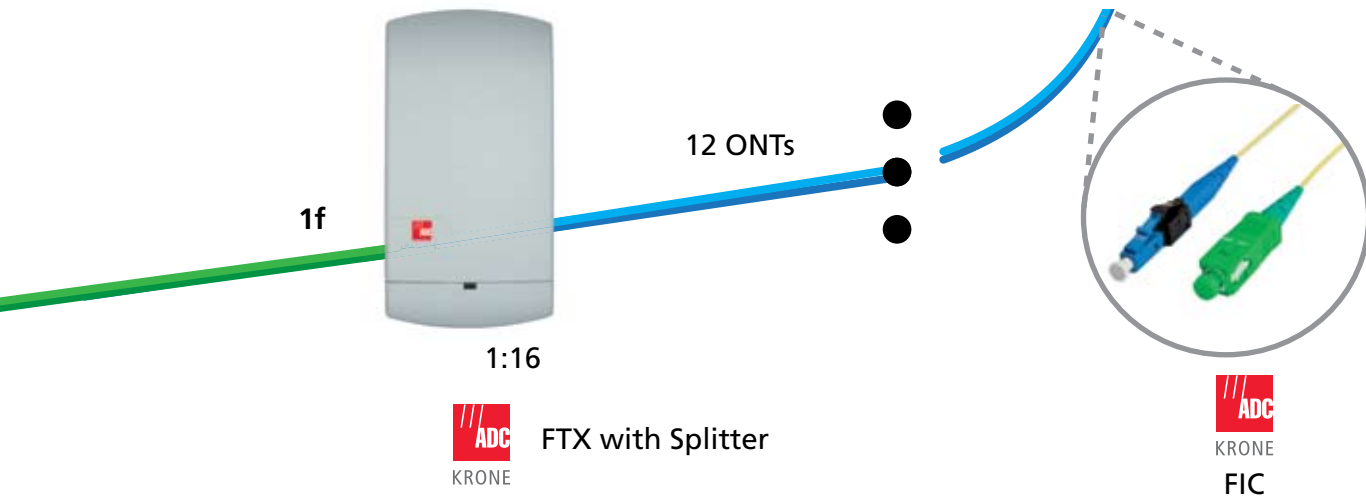




WSB with Splitter Tray



FTX with Splitter



Wall Mount Fibre Distribution Terminal
for 6f, 12f or 24f

LP iFDH up to 288 Termination Wall,
Rack Mount

Multi-Dwelling Unit Solutions

Applications

OmniReach® Quick Launch solutions feature for all MDU applications including high-rise, medium-rise, low-rise/garden style and horizontal housing structures, providing the necessary customisation to meet the specific requirements for any size multiple dwelling unit building or developments.

OmniReach® Quick Launch FTTX Solutions



FDH 59M1



Low Profile iFDH (LP iFDH)



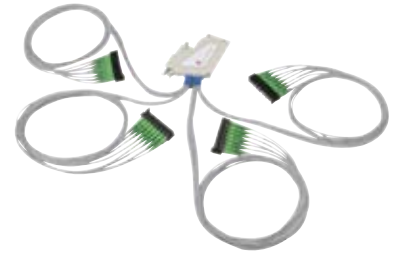
Plastic Splice Box (PSB)



Wall Splice Box (WSB)



Fibre Optic Wall Box (FTX)



Plug-and-Play Splitter (PnP)



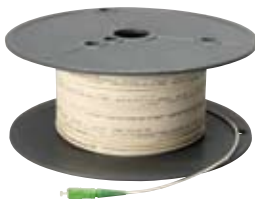
Splitter Splice Tray



Fibre Optic Wall Box (FTX)



Fibre Optic Customer Outlet (CWO)



RealFlex™ 3 Drop Cables

Multi-Dwelling Unit Solutions

OmniReach® FDH 59M1 Fibre Distribution Hub



The OmniReach® FDH 59M1 Fibre Distribution Hub supports fibre cable termination and splicing for up to 288- / 384- fibres. The cabinet combines ADC KRONE's industry-leading solutions into a flexible platform for the delivery of advanced broadband services.

Features and Benefits

- CCC 59 cross-connect cabinet, made of fibre reinforced polycarbonate
- Ensures long, secure service life and provides maximum protection of equipment mounted inside
- Common mini plug-and-play splitter modules with common output length
- Supports diverse splitter module configurations and allows easy, craft-friendly splitter insertion and removal without affecting adjacent splitters
- Unique "swing-out frame" design allows easy maintenance and access to back or distribution panels and cables
- In-hub distribution splicing option for up to 408 fibres
- Incorporates splicing of distribution cable within the cabinet, using the ADC KRONE splice wheel
- Angled bulkhead panels
- Eliminates 90-degree bends and assists technician with cable routing
- Integrated slack storage spools allows for storage of excess fibre while providing positive bend radius control
- "Parking lot" only with 288F
- Stores splitter output ports not in service, allowing quick service turn-up when required
- IP54

Ordering Information

Description	Quantity	Product No.
FDH59M1,288F, SC/APC	1	FDH59M1-SC/APC28
FDH59M1,288F, SC/UPC	1	FDH59M1-SC/UPC28
FDH59M1,384F, SC/APC	1	FXC-59M1288J384VAS

Multi-Dwelling Unit Solutions

LP iFDH Low Profile Indoor Fibre Distribution Hub



The ADC KRONE Low Profile Indoor Fibre Distribution Hub (LP iFDH) products are designed to organise and administer fibre optic cables and passive optical splitters in an inside plant environment typically found at the MDU. These enclosures are used to connect feeder and distribution cables via optical splitters in a Fibre-to-the-Premises (FTTP) network application. The FDH product provides a vital cross-connect/interconnect interface for optical transmission signals at the MDU.

The LP iFDH hardware and components support the architectural flexibility of the FTTP allowing fast and reliable interconnection between equipment and cables. The enclosure provides mechanical protection for cables, splices, connectors and passive optical splitters. In addition the product is designed to accommodate either riser or indoor/outdoor cables via sealed grommet entry. Cables are secured with standard grip clamps to provide required pull out strength. The LP iFDH provides grounding for metallic members and for the cabinet.

Features

- Pre-terminated 288 ports capacity for distributed fibres
- Pre-terminated 12 port capacity for feeder fibres
- Optional 12 ports for bypass
- Sealed enclosure protects fibres from dust, water spray, insects and other contaminants
- Integrated splice tray offers flexible splice management for individual or full splice capacity
- Complete fibre management allows for flexible re-arrangement
- Cable management and routing limits bend radius and adds strain relief
- 216-Tool (can wrench) offers security
- Traditional swing frame designs allows for superior rear access
- 19" rack mountable, wall mountable
- True plug and play splitter technology
- Accommodates high-density modular splitters options, 1:4, 1:8, 1:16, 1:32, dualx1:32, dual 1:16 etc
- Bend insensitive fibre on splitter outputs

Ordering Information

Description	Quantity	Product No.
Low Profile Indoor Fibre Distribution Hub, 288F, SC/APC	1	FD3-LM288J00V00EAA
Low Profile Indoor Fibre Distribution Hub, 288F, SC/UPC	1	FD3-LM288N00V00EAA

Multi-Dwelling Unit Solutions

OmniReach® Outdoor Plastic Splice and Splitter Box (PSB)



The ADC KRONE Outdoor Splice and Splitter Box (PSB) product is designed to organise and administer fibre optic cables and passive optical splitters in an inside/outside plant environment, typically found at the MDU or Garden Styled SDU. These enclosures are used to connect feeder and distribution cables through direct splicing or via optical splitters in a Fibre-to-the-Premises (FTTP) network application. The PSB product provides a vital cross-connect/interconnect interface for optical transmission signals at the MDU or Garden Styled SDU. Truly, a compact FTTP-in-a-box solution that allows turn up of service at a moment's notice or on a trial/project basis.

The enclosure provides protection for cables, splices and passive optical splitters. In addition, the product is designed to accommodate either riser or indoor/outdoor cables via sealed grommet entries.

Features

- Up to 3 splice trays; each tray can hold up to 12x45mm fusion splices or 8x45mm ribbon fusion splices
- Each splice tray can hold 1 PLC splitter (splitter uses 2 splice positions)
- Splitter options are 1:4, 1:8, 1:16 ratios (1:16 splitter requires 2 splice trays)
- Optional pass-through function
- Option of locking: yes

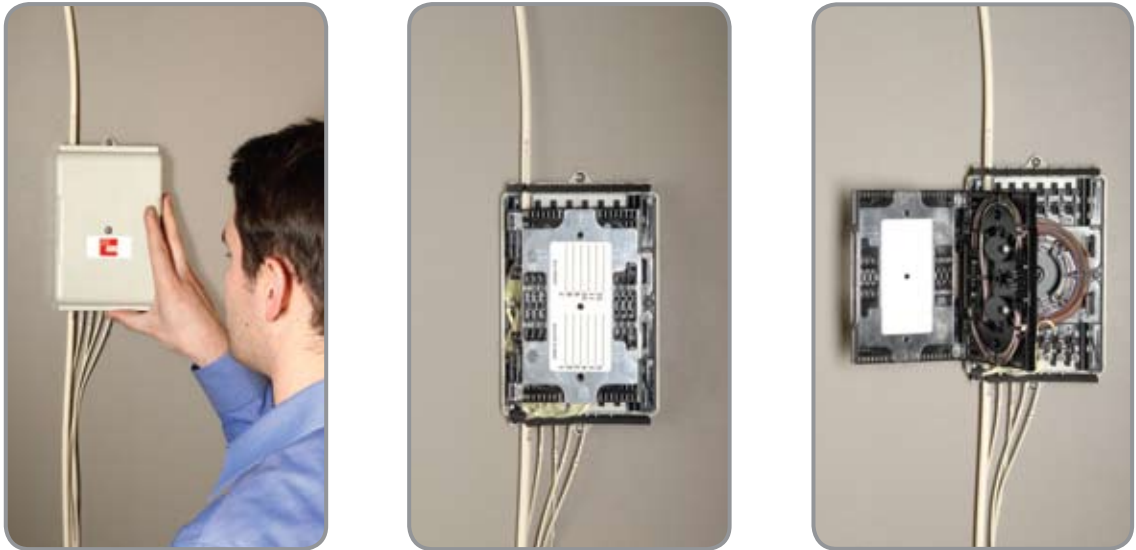
Ordering Information

Description	Quantity	Colour	Product No.
No splitters, 1x 12 core splice tray	1	Off-white	PSB-M12-000
No splitter, 3x 12 core splice trays	1	Off-white	PSB-M36-000
1x1:4 Splitter, 1x 12 core splice tray	1	Off-white	PSB-M12-S104
1x1:8 Splitter, 1x 12 core splice tray	1	Off-white	PSB-M12-S108
2x1:4 Splitters, 2x 12 core splice trays	1	Off-white	PSB-M36-S204
2x1:8 Splitters, 2x 12 core splice trays	1	Off-white	PSB-M36-S208
3x1:4 Splitters, 3x 12 core splice trays	1	Off-white	PSB-M36-S304
3x1:8 Splitters, 3x 12 core splice trays	1	Off-white	PSB-M36-S308
1x1:16 Splitters, 2x 12 core splice trays	1	Off-white	PSB-M36-S116
Optional lock	1		7083 1 901-00

Multi-Dwelling Unit Solutions

OmniReach® FTTX Solutions Wall Splice Box

OmniReach® Quick Launch FTTX Solutions



ADC KRONE's OmniReach® FTTX Solutions are the industry's first infrastructure solutions designed from the ground up to meet the unique requirements of FTTX networks. Designed for operational efficiency and scalability, OmniReach solutions simplify FTTX network installation, maintenance and management from the central office/headend to the outside plant.

ADC KRONE's Wall Splice Box (WSB) is an economical, "right sized" solution for storing and protecting Fibre optic splices. It serves as a unique distribution point for optical signals in a Fibre to the Premise (FTTP) network.

Low profile design allows the WSB to be installed in tight spaces—behind walls, corridors, ducts or existing equipment. Field-friendly, the WSB requires minimal tools for installation, and provides quick and easy access for service and maintenance—speeding deployment and minimizing labor costs.

The WSB is an ideal solution for deploying and managing fibre networks within multiple dwelling unit (MDU) and multiple tenant unit (MTU) environments.

Multi-Dwelling Unit Solutions

OmniReach® FTTX Solutions Wall Splice Box

Features	Benefits
<ul style="list-style-type: none"> • Low profile design: 12.6 cm x 21.2 cm x 5.0 cm (4.97" x 8.34" x 1.96") • Screw mounts to a wall or flat surface • Protective cover detaches for maintenance and service • Integrated splice sleeve holder and tray accommodates different sleeve sizes and 1x2, 1x4, 1x8 and 1x16 optical splitter devices • Multiple tie down points hold distribution and drop cables securely in place • Base and splice trays lock together using magnetized holders • Drop cable retention tray stores slack distribution cable for pass through applications • Fibre routing paths maintain a bend radius of 20 mm • Holds fusion and mechanical splices 	<ul style="list-style-type: none"> • Flexible, low-cost solution for deploying and managing fibre optic connections within a Fibre To The Premise (FTTP) network • Low profile design allows unit to be installed in niche spaces—walls, corridors, behind ducts or other existing equipment • Carefully designed fibre paths eliminate attenuation and signal loss • Hinged splice tray design provides easy service access and speeds splicing requirements in field • Mounting requires minimal tools and construction • Gasketed, shatter-resistant plastic enclosure minimises corrosion, dust and moisture entry • Can be expanded to use with splitters, preterminated pigtails connectors and adapters

Ordering Information

Description	Catalog Number
Value Version Includes base and cover, 1 splice tray with cover, no magnets, drops on bottom only (only 6 screws), 10 cable ties	WSB-AB1A-00
Standard Version Includes base and cover, 1 splice tray with cover, drops on top and bottom, 16 cable ties, 12 screws	WSB-AD1A-00
Loaded Version Includes base and cover, 2 splice trays and cover with magnets, drops on top and bottom, 16 cable ties, 12 screws	WSB-AF1A-00
Accessories	
Splice Tray Magnet Kit	WSB-ACC-MGNT2
Splice Tray Hinge (2)	WSB-ACC-HNG2
Splice Tray Cover for Type 1 Tray	WSB-ACC-CVRST1
Splice Tray Type 1 and Cover	WSB-ACC-ST1ACVR
Splice Tray Add On Kit includes 1 splice tray type 1 with magnets, cover, hinges and spare magnets	WSB-ACC-EXPKIT1
Grommet Kit	WSB-ACC-GMTKIT
Inside Label Kit	WSB-ACC-LBLKIT

Multi-Dwelling Unit Solutions

Fibre Optic Wall Box (FTX)

OmniReach® Quick Launch FTTX Solutions



ADC KRONE's OmniReach® FTTX Solutions are the industry's first infrastructure solutions designed from the ground up to meet the unique requirements of FTTX networks. Designed for operational efficiency and scalability, OmniReach solutions simplify FTTX network installation, maintenance and management from the central office/headend to the outside plant.

ADC KRONE's Fibre Optic Wall Box (FTX) is a flexible and lightweight solution for storing and protecting fibre optic connectors and splices. It serves as a unique distribution point for optical signals in a Fibre to the Premise (FTTH) network.

Low profile design allows the FTX to be installed in tight spaces—behind walls, corridors, ducts or existing equipment. Distribution may enter/exit through the top or bottom and drop cable exit from bottom of unit.

Field-friendly, the FTX requires minimal tools for installation, and provides quick and easy access for service and maintenance—speeding deployment and minimising labor costs.

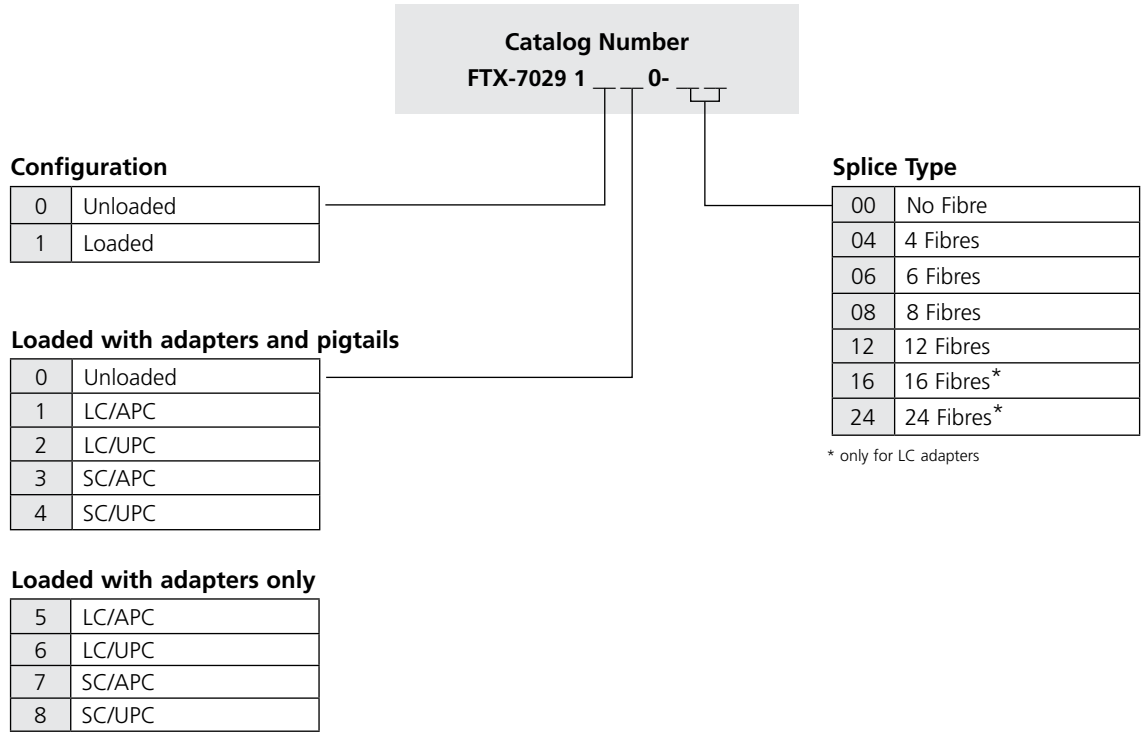
The FTX is an ideal solution for deploying and managing Fibre networks within multiple dwelling unit (MDU) and multiple tenant unit (MTU) environments.

• Features

- Made of molded plastic (halogen free, LSZH-1)
- Mounts either directly to a wall or to a mounting plate
- IP20 rated
- RoHS compliant
- Conforms to UL94 V-O
- Accommodates up to 24 termination/splice connections
 - Up to 12 SC simplex or 12 LC duplex adapters
 - Up to 12 mechanical or 24 heat shrink and crimp splices
- Lockable with encoded screw or lead-wire seal
- Cable entrance from top and bottom for cable diameters from 3 to 7 mm
- Supports blown-fibre installations
- Additional cover protects patch cords and drop cables from unintended or
- Unauthorised disconnection

Multi-Dwelling Unit Solutions

Fibre Optic Wall Box (FTX)

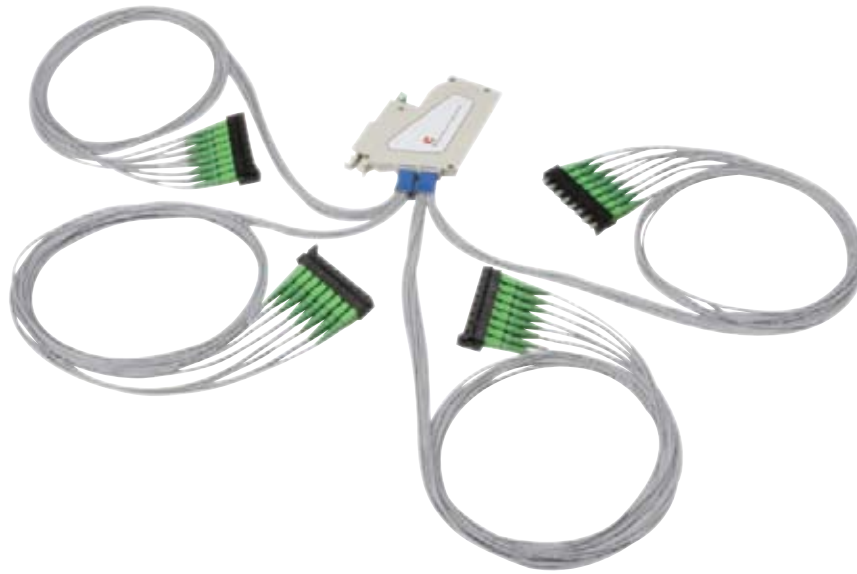


For example:

Fibre Optic Wall Box, loaded with 4 pcs. LC/APC adapter and 8 pcs. pigtails is equal to catalog number FTX – 7029 1 110 - 08

Multi-Dwelling Unit Solutions

OmniReach® Plug-and-Play Splitter Modules



The OmniReach® Plug-and-Play Splitter Modules are passive splitters that installed in outside/inside plant enclosure in the part of Fibre to the Premise (FTTP) or Fibre to the Home (FTTH) applications.

It is designed for operational efficiency and scalability which simplify FTTX network installation, maintenance, and management from the central office to the outside/inside plant which translates into easy determent of splitter costs.

It is also designed for easy snap-in which requires no tools.

It is slim in design for easy hand access and utilises minimal space.

It separates F1 fibre routing from splitter jumpers to eliminate accidental damage or service interruption which translates into low-down time.

Available in configurations from 1x4, 1x8, 1x16 and 1x32, the modules can be ordered in adaptor port.

Features

- GR-1209, GR-1221, GR-326 designed specifications
- True Plug-and-Play design reduces installation time
- Rugged package protects delicate splitters from installer handling
- Variety of package styles allow adaptation to many applications
- Wideband performance allows operation from 1260nm to 1650nm
- Bend-optimised fibre and ruggedised extreme temperature cabling
- Superior loss performance at 1490 and 1550 wavelengths
- Allows pass through of up 2 fibres per splitter set
- Easy to insert and remove without affecting adjacent splitters
- Strain relief boots used on outputs to protect against bending
- Reversible dust cap make test and turn up easy
- Universal module designed for use across applicable – cabinets, chassis and frames
- Modules snap-in and latch automatically into place; no hardware is required

Multi-Dwelling Unit Solutions

OmniReach® Plug-and-Play Splitter Modules

OmniReach® Quick Launch FTTX Solutions

Ordering Information

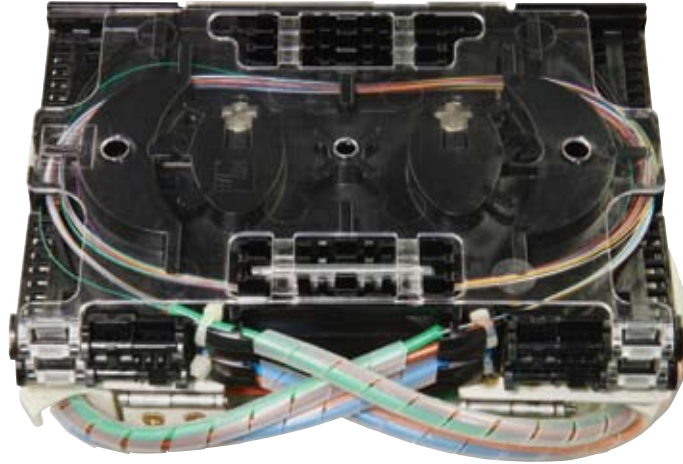
Description	Quantity	Product No.
Plug-and-Play - 1:2 splitter, SC/APC, 54" patch cord	1	FPS-MPA1WJJ*
Plug-and-Play - 1:4 splitter, SC/APC, 54" patch cord	1	FPS-MPA1NJJ
Plug-and-Play - 1:8 splitter, SC/APC, 54" patch cord	1	FPS-MPA1JJJ
Plug-and-Play - 1:16 splitter, SC/APC, 54" patch cord	1	FPS-MPA1CJJ
Plug-and-Play - 1:32 splitter, SC/APC, 54" patch cord	1	FPS-MPA1AJJ
Plug-and-Play - 1:64 splitter, SC/APC, 54" patch cord	1	FPS-MPA1SJJ

* Not GR compliant

Multi-Dwelling Unit Solutions

Splice Tray with/without Splitters (WSB/PSB/OTE)

OmniReach® Quick Launch FTTX Solutions



Easily upgrade ADC KRONE's series of splice enclosures to include splitting. This splice tray with splitters inside can be used in many ADC KRONE family of products including PSB, WSB and OTE. They can be ordered and installed quickly at the work site to extend product functionality.

Features

- Input fibre splice and distribution fibre splice
- Fibre storage management
- 1:4, 1:8, 1:16 and 1:32 splitter options
- Snap into splice trays in PSB, WSB, and OTE family of products
- Quick deployment

Ordering Information

Description	Quantity	Product No.
1x4 splitter splice tray	1	FPS-RST1N00
1x8 splitter splice tray	1	FPS-RST1J00
1x16 splitter splice tray	1	FPS-RST1C00
1x32 splitter splice tray	1	FPS-RST1A00
Splice tray without splitter	1 (Order in multiples of 10)	WSB-ACC-EXPKIT1

Multi-Dwelling Unit Solutions

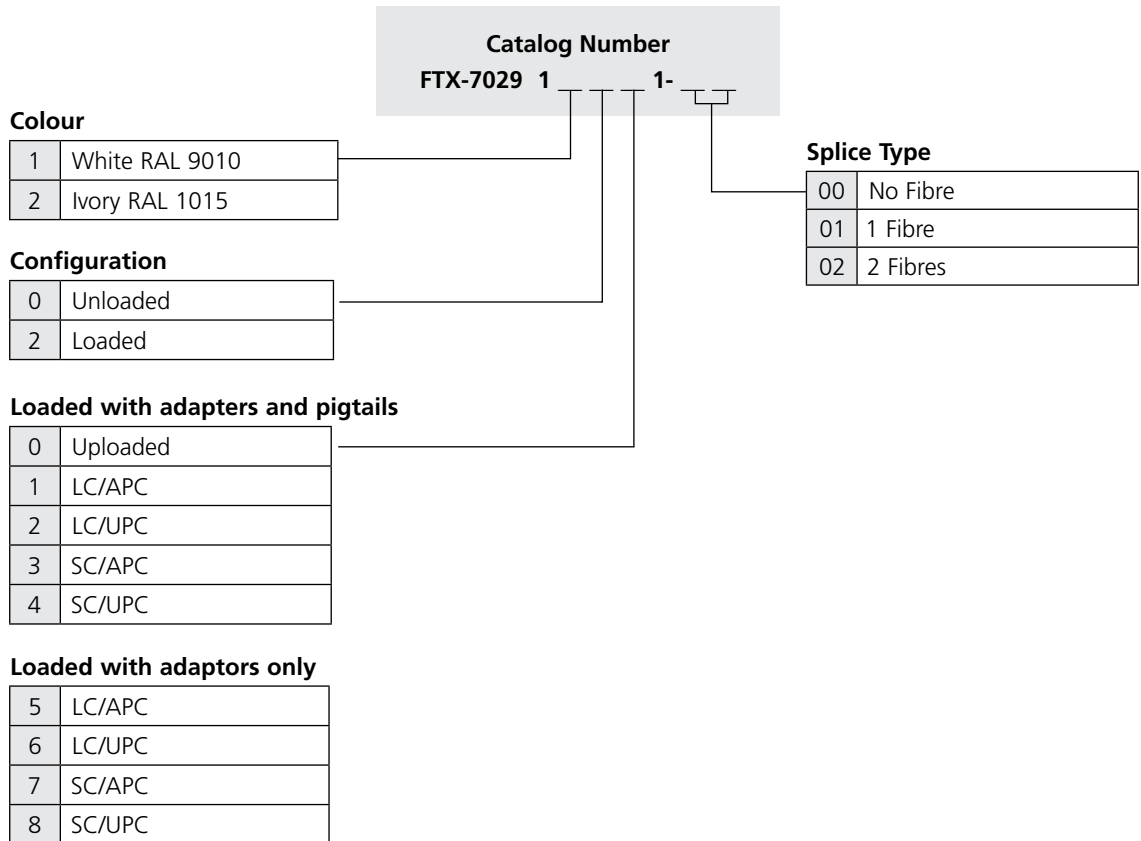
Fibre Optic Customer Outlet (CWO)



Features

- Made of molded plastic (halogen free, LSZH-1)
- Very flat design, mounts on a standard flush mount electrical outlet
- IP20 rated
- RoHS compliant
- Conforms to UL 94 V-O
- Utilises reduced bend radius fibre (G657.A and B)
- Accommodates two termination/splice connections
 - 2 SC simplex or 1 LC duplex adapters
 - 2 crimp, mechanical or heat shrink splices
- Lockable with screw or lead-wire seal
- Cable entrance from top and bottom, left and rear

The Fibre Optic Customer Outlet (CWO) allows easy and unobtrusive termination of fibre optic cables within an office, home or communications room.



Multi-Dwelling Unit Solutions

Fibre Wall Outlet - 86 Type



The 86 Type Fibre Wall Outlet has the typical 86 x 86mm wallmounting footprint which is used to contain and cable manage a selection of copper and fibre outlets in a variety of configurations depending on the application required.

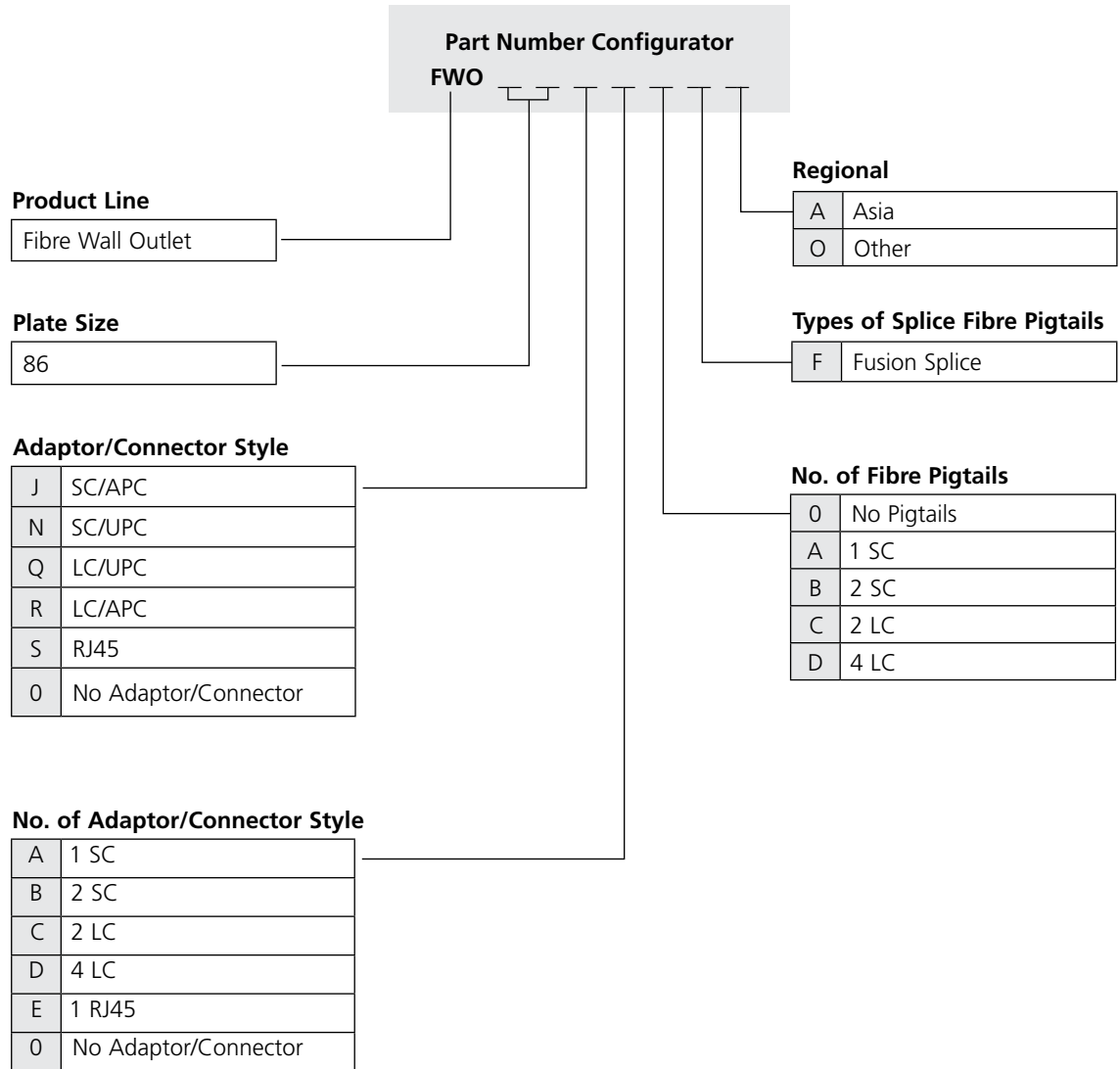
Features

- Wall mountable or fastened to an internal wall box
- Indoor fibre drop cable with internal or external box entry
- Internal entry of copper cable
- Compatible only with a standard ADC KRONE Keystone Right Angle Outlet
- Fibre outlets for 1 or 2 LC/SC fibre optic adapters
- Optic fibre shutter door protection can be added to the fibre adaptor. This is only limited to the provision of the fibre adaptor used
- Integrated internal cable management for fibre cables/pigtails
- Holds up to 4 fusion splice terminations
- Two-tier breakouts for external 3mm fibre cable entry for either simplex or duplex modes
- Internal wall box access
- 4x tie-down locations for externally entering fibre
- 2x tie-down locations for internally entering fibre
- 1x tie-down for copper cable
- Stores up to 4x fibre optic pigtails up to 0.5m each in length
- For use with Reduced Bend Radius (RBR) optic fibre cable only
- Paper label for each outlet
- Weight: 47g (including 2 mounting fasteners)

Multi-Dwelling Unit Solutions

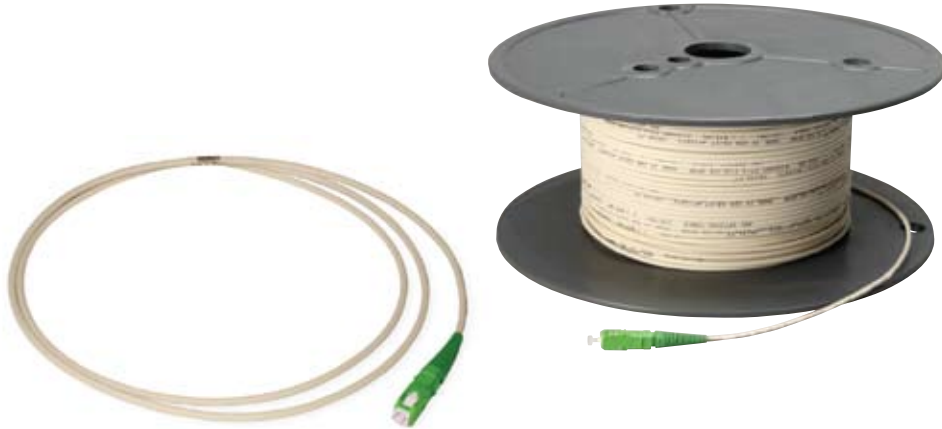
Fibre Wall Outlet - 86 Type

OmniReach® Quick Launch FTTX Solutions



Multi-Dwelling Unit Solutions

RealFlex™ 3 Drop Cables



ADC KRONE's RealFlex™ 3 Drop Cables are ruggedly designed for maximum flexibility, handling and performance to meet the rigors of inside or outside plant FTTX deployments. RealFlex 3 Drop Cables are available in Indoor/Outdoor, Riser and Plenum cable types for use in residential, business or multiple dwelling unit (MDU) structures.

RealFlex 3 Drop Cables allow for a fibre bend radius as small as 7.5 mm without changing attenuation characteristics of the cable and improve insertion loss (IL) performance for 90 degree bend locations. With the average MDU installation including as many as seven 90 degree turns, this new fibre greatly reduces the risk to bend induced IL during installation. In addition to the improved bend radius performance, the rugged 3mm cable construction provides the flexibility and durability to withstand the most demanding applications.

The rugged 3 mm indoor/outdoor cable can be stapled*, allowing for fast and easy securing of cables to most surfaces. The reduced bend radius glass allows the technician to staple around tight corners without compromising insertion loss performance.

ADC KRONE's RealFlex 3 Drop Cables provide for quick and easy deployments with increased reliability which allow for fast service turn-up, improved network reach and lower overall network operating and maintenance costs.

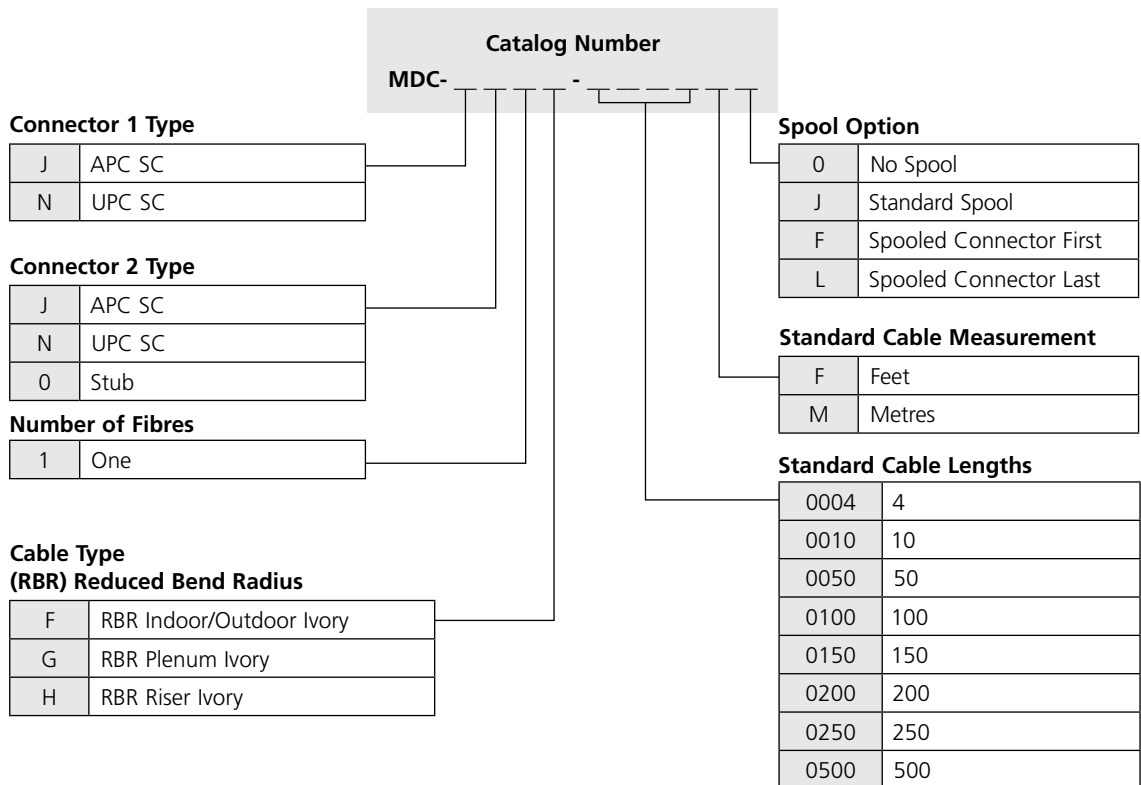
*ADC KRONE approved staplers and staples.

Multi-Dwelling Unit Solutions

RealFlex™ 3 Drop Cables

Features and Benefits

- Fibre bend radius as small as 7.5 mm without changing cable characteristics
- Greatly reduces risk to bend induced insertion loss created during installation
- Indoor/Outdoor, Plenum and Riser cable options available
- 900 micron buffer coating strips easily in one pass to save on installation time
- Rugged 3 mm cable jacket construction
- Cable maintains its flexibility even in extreme cold temperatures
- G.657 Table A and B compliant
- Two cable configurations available: connectors on both ends or connector on one end
- Spooling options: end with connector pulled first or end without connector pulled first
- Ivory cable color helps distinguish cable in the field



OmniReach® Quick Launch FTTX Solutions



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