

OMX™ 600

Optical Distribution Frame





# OMX™ 600 Optical Distribution Frame

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# OMX™ 600 Optical Distribution Frame

## Introduction

Unprecedented growth in the telecommunications industry has driven widespread deployment of optical fibre. As the number of installed fibers grows, the capability of a service provider's optical distribution frame to handle large amounts of fibre becomes crucial. Also, office floor space is at a premium. Saving floor space by increasing the optical distribution frame density can provide significant cost-savings to the service provider. At the same time, service providers require a flexible optical distribution frame, which enables them to quickly respond to the changing needs of their customers. These key factors have driven the increased demand for a high-density, modular, front access optical distribution frame.

ADC has developed the OMX™ 600 optical distribution frame to meet these demands. Designed with total front access, the OMX 600 can be installed back-to-back or against a wall to save valuable office floor space. This high-density frame terminates and splices up to 576 fibers in a 600 mm x 300 mm footprint. The OMX 600 fibre frame protects fibre cable and connections through use of ADC's patented angled adapter/retainers and design features that maintain correct bend radii throughout the frame. Adding signal management and enhancement functions, such as splitters, couplers and wavelength division multiplexers, optimizes the value of your fibre network, by providing nonintrusive access to the optical signal for monitoring and testing signal integrity.

### Features and Benefits

#### Modular solution

Provides greater flexibility for a variety of applications  
- *Saves costs by standardizing on one flexible solution*

#### High density solution

Accommodates up to 576 terminations and splices within 600 mm x 300 mm footprint  
- *Saves valuable floor space*

#### Total front access frame

Allows installation back-to-back or against a wall  
- *Saves valuable floor space*

#### Superior cable management

Protects cables and connectors; reduces reconfiguration time  
- *Saves maintenance costs; improves reliability*

#### Completely enclosed and lockable

Provides additional fibre protection and security  
- *Improves network reliability through controlled access to fibres*



# OMX™ 600 Optical Distribution Frame

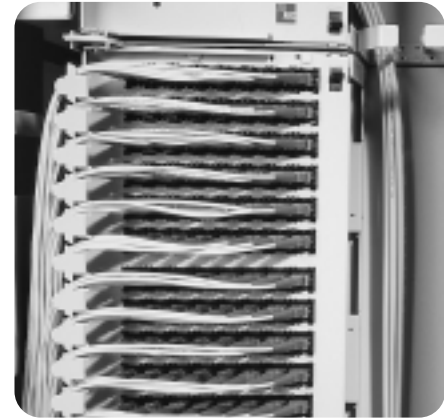
The OMX 600's modular design provides flexibility to meet the specific needs of the service provider. Each solution will be a combination of the following parts.

## OMX 600 Frame

The OMX 600 frame is 600 mm x 300 mm and has 10 mounting positions for the termination, splice and jumper storage modules.

## OMX 600 Termination Module

The OMX 600 termination modules are available with 72, 96, or 144 (with LX.5®) adapters. These modules can be ordered with adapters only or pre-terminated with either intrafacility fibre cable (IFC)/outside plant (OSP) cables, or pigtails for ease of installation. The modules are available with SC, FC, ST®, E-2000® and LX.5® connector/adapter styles.



## OMX 600 Splice Module

The OMX 600 splice module provides protection and a mounting location for ADC's round splice trays. Each splice module is two mounting positions tall and holds 24 splice trays. Each splice tray can house up to 24 splices.



## OMX 600 Slack Storage Solutions

The OMX 600 jumper storage module enables storage of fibre-optic jumper slack within an OMX 600 frame. Each jumper storage module is one module position tall. The Interbay Management Panel provides off-frame storage of jumper slack. ADC recommends the use of 2 mm patch cords to maximize the cable management potential of the OMX.



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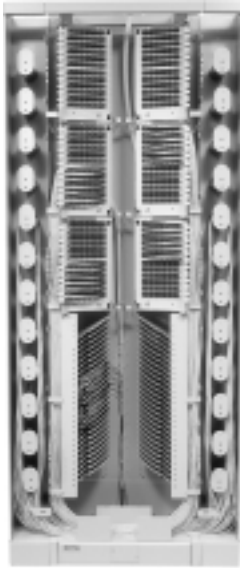


# OMX™ 600 Optical Distribution Frame

## OMX 600 Configuration

The modularity of the OMX 600 product line enables the service provider to configure the frame to optimize their network. All OMX 600 configurations listed below are completely front-facing, enabling wall-mount or back-to-back configurations. The OMX 600 can be enclosed with lockable front doors and end guards for increased fibre protection and security.

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Solution 1

### Solution 1

576 terminations and 576 splices (using the 96 position module)  
432 terminations and 432 splices (using the 72 position module)  
2200 mm x 900 mm x 300 mm  
Interconnect or cross-connect solution  
Off-frame jumper storage



Solution 2

### Solution 2

288 terminations and 288 splices (using the 96 position module)  
216 terminations and 216 splices (using the 72 position module)  
2200 mm x 600 mm x 300 mm  
Interconnect solution  
On-frame jumper storage



Solution 3

### Solution 3

480 terminations (using the 96 position module)  
360 terminations (using the 72 position module)  
2200 mm x 600 mm x 300 mm  
Interconnect or cross-connect solution  
On-frame jumper storage  
Off-frame splicing solution



Solution 4

### Solution 4

576 terminations and 288 splices (using the 96 position module)  
432 terminations and 216 splices (using the 72 position module)  
2200 mm x 600 mm x 300 mm  
Cross-connect solution  
On-frame jumper storage

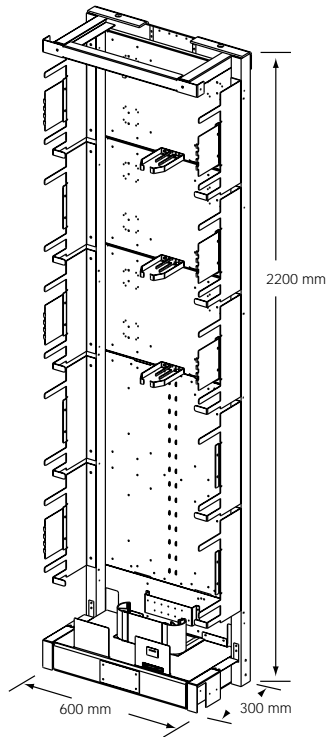


# OMX™ 600 Optical Distribution Frame

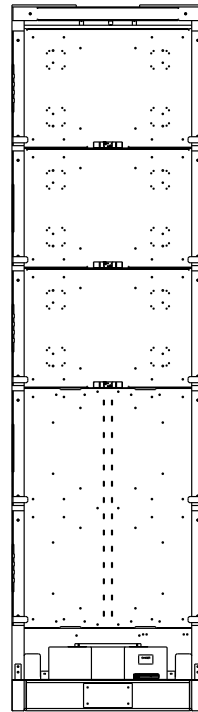
## OMX 600 Frame

The OMX 600 frame section provides mounting locations for termination, splice and storage modules. It is a completely front-facing frame; all mounting, maintenance and cable access is done on the front of the frame. A lower trough allows multiple frames to be mounted in a continuous lineup. The frame is shipped with lockable front doors (locks ordered separately). Preconfigured bays are available; please contact your ADC representative for ordering information.

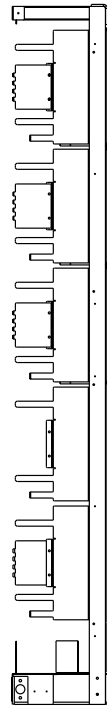
OMX™ 600 Optical Distribution Frame



Front ISO View



Front View



Side View

### Ordering Information

Description	Dimensions	Catalog Number
OMX 600 Frame Section	2200 mm x 600 mm x 300 mm	MX6-TSF6030

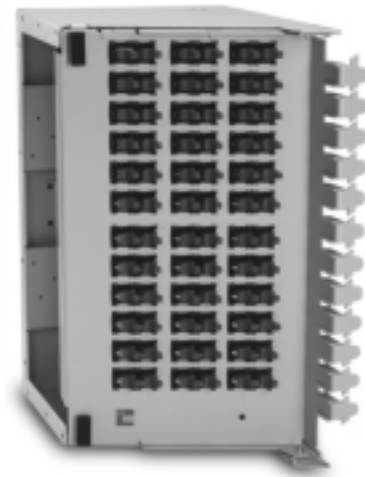
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# OMX™ 600 Optical Distribution Frame

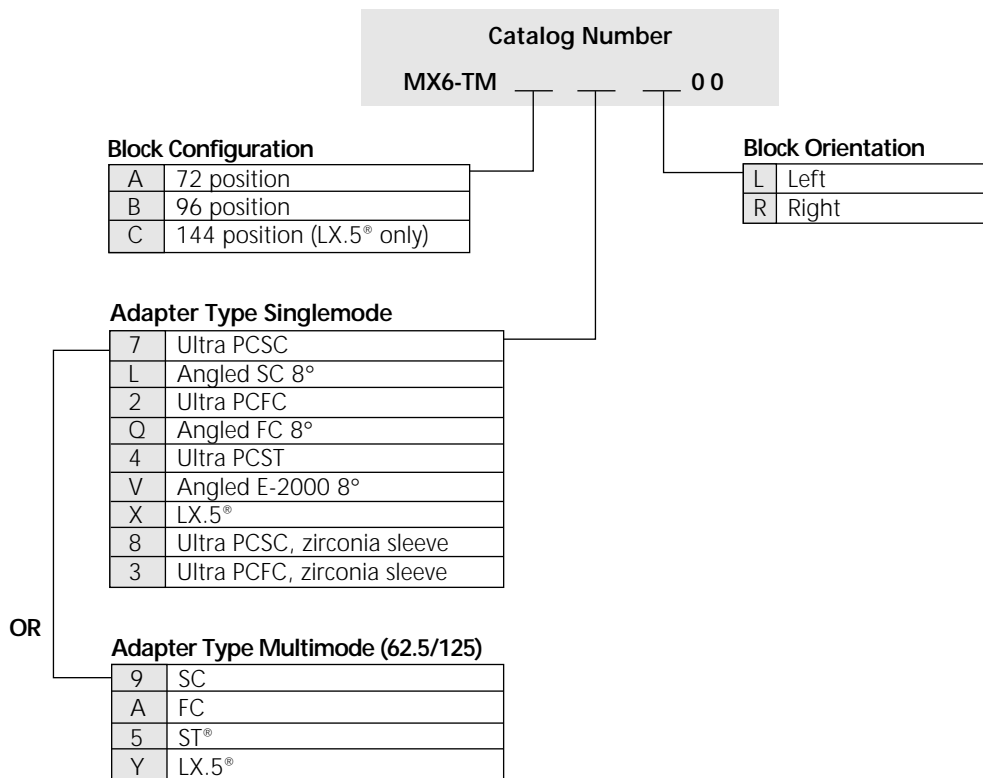
## OMX 600 Termination Module with Adapters Only

The OMX 600 termination module with adapters only is available with 72, 96 or 144 (with LX.5®) adapters. Modules may be ordered with a "left" orientation (mounts on the left side of the frame) or a "right" orientation (mounts on the right side of the frame). ADC recommends the use of 2 mm patch cords to maximize the cable management potential of the OMX.



72 position shown

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# OMX™ 600 Optical Distribution Frame

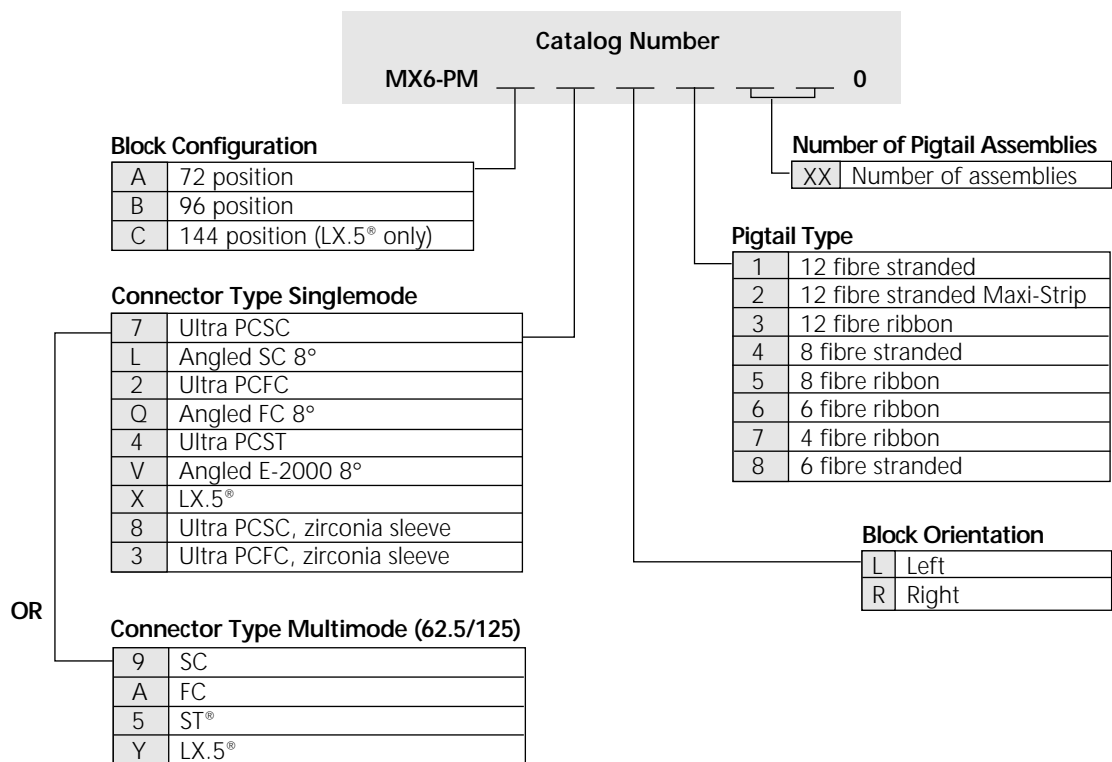
## OMX 600 Termination Module with Pigtails

The OMX 600 pre-terminated pigtail modules are available with either stranded or ribbon pre-terminated fibre bundles. The modules are mounted on the frame and the fibre bundles are then routed directly to the splice section of the OMX 600 frame. This makes installation of the modules quick and easy, saving valuable installation time. Pre-terminated pigtail modules may be ordered with a "left" orientation (mounts on the left side of the frame) or a "right" orientation (mounts on the right side of the frame). ADC recommends the use of 2 mm patch cords to maximize the cable management potential of the OMX.



96 position

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# OMX™ 600 Optical Distribution Frame

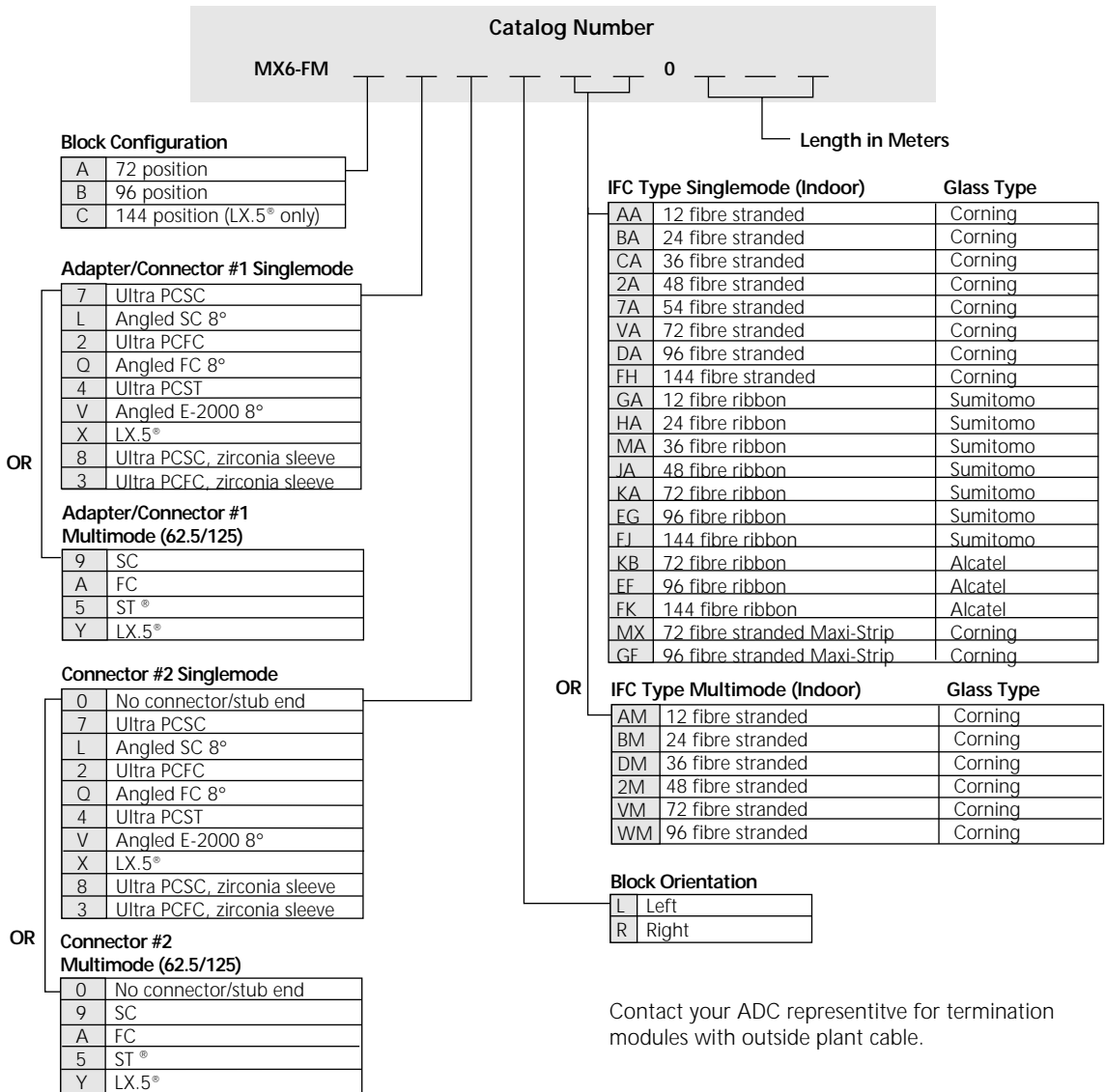
## OMX 600 Termination Module with IFC

The OMX 600 pre-terminated IFC modules are available with either indoor or outdoor rated cable in ribbon, stranded, loose tube, or Maxi-Strip configurations. All modules are 100% factory tested to guarantee continuity and reliable connections. IFC modules make installation quick and easy, reducing labor costs. IFC modules may be ordered with a "left" orientation (mounts on the left side of the frame) or a "right" orientation (mounts on the right side of the frame). ADC recommends the use of 2 mm patch cords to maximize the cable management potential of the OMX.



96 position

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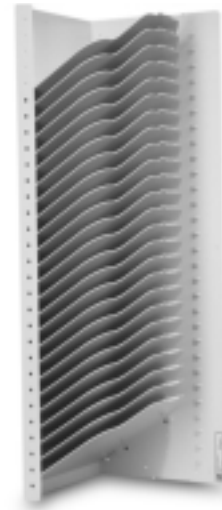
Contact your ADC representative for termination modules with outside plant cable.



# OMX™ 600 Optical Distribution Frame

## OMX 600 Splice Module

The OMX 600 splice module provides mounting positions and protection for 24 splice trays. The splice module is the height of two termination modules. The module may be ordered with a "left" orientation (mounts on the left side of the frame) or a "right" orientation (mounts on the right side of the frame). Splice modules must be mounted to the frame starting in the bottom position.



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### Ordering Information

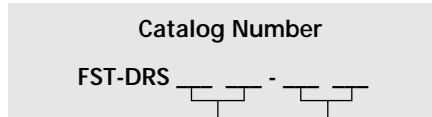
Description	Catalog Number
OMX 600 (24) Tray Splice Module	
Height = 2 module positions	
Right Orientation	MX6-24SPNL-R
Left Orientation	MX6-24SPNL-L



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## OMX 600 Splice Tray

The round splice tray used in the OMX 600 simplifies installation and maintenance. The tray stores up to three meters of slack allowing the installer to roll the tray away from the frame to perform splicing.



### Number of Splices

12
16
24
32 <sup>1</sup>

<sup>1</sup>For 8 fibre ribbon only

### Splice Type

00	Empty
FT	Bare fusion
HS	Heat shrink fusion
MT	Mechanical (elastomeric)
URCM	Universal Raychem
NT	Nortel QPAK
ANT	Swiss ANT
RT	Rotary
3M	FibrLok®

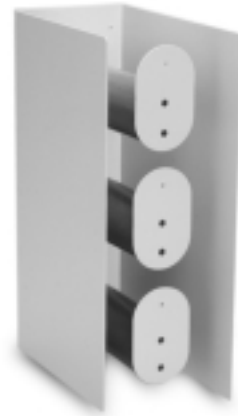


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## OMX 600 Jumper Storage Module

The OMX 600 jumper slack storage module provides for jumper storage functionality within the frame. Up to five jumper storage modules can be mounted on one side of an OMX 600 frame. Jumper storage modules must be mounted to the frame starting in the bottom position.



### Ordering Information

Description	Catalog Number
OMX 600 Jumper Storage Module	MX6-JSM00000

## OMX 600 Interbay Management Panel

The OMX 600 interbay management panel provides slack storage between frames for interconnect or cross-connect jumpers. **The Interbay Management Panel is necessary when no jumper storage is provided on the OMX frame itself.**

### Ordering Information

Description	Dimensions	Catalog Number
OMX 600 Interbay Management Panel	2200 mm x 150 mm x 300 mm	MX6-IMP150

## OMX 600 End Guard

The OMX 600 end guard provides protection for the fibers entering and exiting frames at the ends of a lineup. The end guard attaches directly to the frame, but does not add to the overall frame width. End guards are not required when ordering splice bays.

### Ordering Information

Description	Dimensions	Catalog Number
OMX 600 End Guard	2200 mm x 300 mm	MX6-ENDGRD



# OMX™ 600 Optical Distribution Frame

## OMX 600 Outside Plant Cable Clamp

The OMX 600 cable clamp is used to secure the OSP/IFC cable to the base or top of the frame.

### Ordering Information

Description	Catalog Number
OMX 600 outside plant cable clamp for <b>top entry cables</b>	OSP-CLPFEC-LG
OMX 600 outside plant cable clamp for <b>underfloor cable entry</b>	MX6-ACC001

## Rack Installation Kits

### Ordering Information

Description	Catalog Number
Rack installation kit for <b>concrete floor</b> , <i>kit includes:</i> (2) M8 bolts, 90 mm (4) M8 nuts (8) flat washers (4) lock washers shims and anchor plates	RAC-MX0616
Rack installation kit for <b>raised floor</b> , <i>kit includes:</i> (4) threaded rods M12 x 1 m (12) heavy nuts, lock and flat washers (4) nuts with springs, M12 (2) 1.8 m unistrut (1) anchor kit	RAC-MX0615

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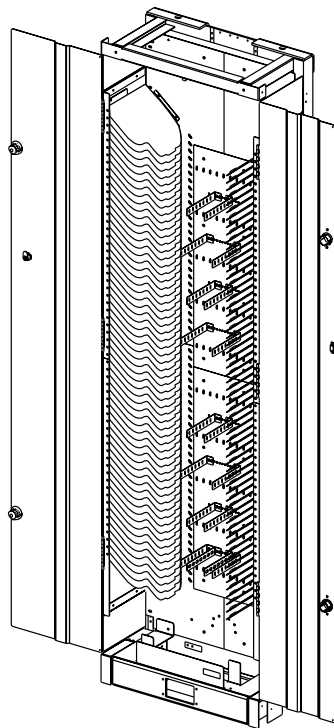


# OMX™ 600 Optical Distribution Frame

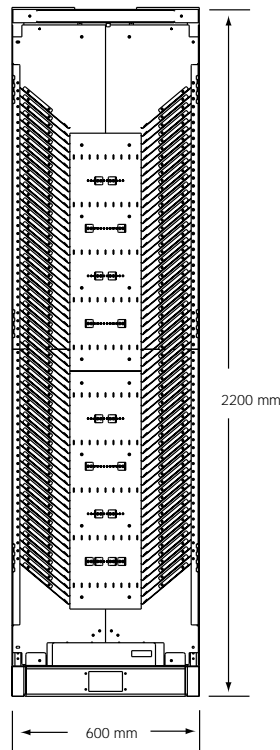
## OMX 600 Splice Bay

The OMX 600 splice bay is a high-density splice solution, housing up to 1440 splices within a 600 mm x 300 mm footprint. Shipped complete with the necessary cable management, the splice bay features slots which secure and protect the round splice trays. The splice bay can hold up to 60 twelve-fibre splice trays on each vertical. The bay may be ordered for applications in which the cables enter from above or below. The OMX 600 splice bay is shipped with lockable front doors.

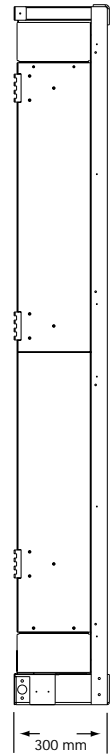
OMX™ 600 Optical Distribution Frame



Front ISO View



Front View



Side View

MX6-SPL6030-D Shown

### Ordering Information

Description	Dimensions	Catalog Number
Fully configured splice bay; accommodates up to 1440 splices Cable enters from <b>underfloor</b> Cable enters from <b>top</b> Splice Bay cable clamps for OSP cable for IFC cable	2200 mm x 600 mm x 300 mm	MX6-SPL6030-1440-D MX6-SPL6030-1440-U  FEC-ACCCLMP01 MX6-SPLIFCCLMP

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# OMX™ 600 Optical Distribution Frame

Ultra Physical Contact 2.0 mm and 1.7 mm Fibre Optic Patch Cords  
Singlemode and Multimode

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Catalog Number

\_\_\_\_ - \_\_\_\_ - \_\_\_\_ M

Length in Meters

### Cable/Fiber Option

FPC	Corning fibre (connector on both ends)
FPT	Corning fibre (connector on one end)
FPA	Lucent fibre (connector on both ends)

### Configuration Option

2	2.0 mm dual Zip*
M	2.0 mm single
F	1.7 mm single (for LX.5® only)
T	1.7 mm dual Zip* (for LX.5® only)

\* Standard breakout is 18".  
Contact ADC Technical Assistance Center for additional breakout options.

For hybrid patch cords, enter both connector types in this field. Separate them with a slash mark.

ADC recommends the use of 2 mm patch cords to maximize the cable management potential of the OMX.

### Singlemode Connector Type

SPSC	Ultra PCSC
SPFC	Ultra PCFC
SPST	Ultra PCST
APSC	8° angled polish
APFC	8° angled polish
AE2	E-2000 angled polish
ALX5	Angled LX.5® 8° angled polish (requires 1.7 mm cable)

OR

### Multimode Connector Type (Single End)

MSC	Multimode SC
MST	Multimode ST®
MFC	Multimode FC
MLX5	Multimode LX.5® (requires 1.7 mm cable)



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From North America, Call Toll Free: 1-800-366-3891, Ext. 63475 • Outside of North America: +1-952-938-8080 Fax: +1-952-946-3292  
For a complete listing of ADC's global sales office locations, please refer to our web site.

ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101

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