

# OMX Optical Distribution Frame



Saving floor space by increasing the optical distribution frame density can provide significant cost-savings to the service provider. Service providers also 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.

TE Connectivity has developed the OMX optical distribution frame to meet these demands. Designed with total front access, the OMX 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 fiber in a 600mm x 300mm (ETSI) footprint. The OMX fiber frame protects fiber cable and connections through use of the patented angled adapter/retainers and design features that maintain correct bend radius throughout the frame. Adding signal enhancement and management functions, such as splitters, couplers and wavelength division multiplexers, optimizes the value of the fiber 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 600mm x 300mm 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
  - Reduces maintenance costs, improves reliability

### Completely enclosed and lockable

- Provides additional fiber protection and security
  - Improves network reliability through controlled access to fibers

# OMX Optical Distribution Frame

## Introduction

The OMX's modular design provides flexibility to meet the specific needs of the service provider. Each solution combines the following parts.

### OMX Frame

The OMX frame is 600mm x 300mm (ETSI) and has ten mounting positions for termination, splice and jumper storage modules.

### OMX Termination Module

The OMX termination modules are available with 96 SC/LC or 144 LC adapters. These modules can be ordered with adapters only or preterminated with either intrafacility fiber cable (IFC), outside plant (OSP) cables, or pigtails for ease of installation. The modules are available with SC or LC connector/adaptor styles.

### OMX Splice Module

The OMX splice module provides protection and a mounting location for TE'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 Slack Storage Solutions

The OMX jumper storage module enables storage of fiber-optic jumper slack within an OMX frame. Each jumper storage module is one module position tall. The Interbay Management Panel provides off-frame storage of jumper slack. TE recommends the use of 1.8mm patch cords to maximize the cable management potential of the OMX.



OMX termination module



OMX splice module



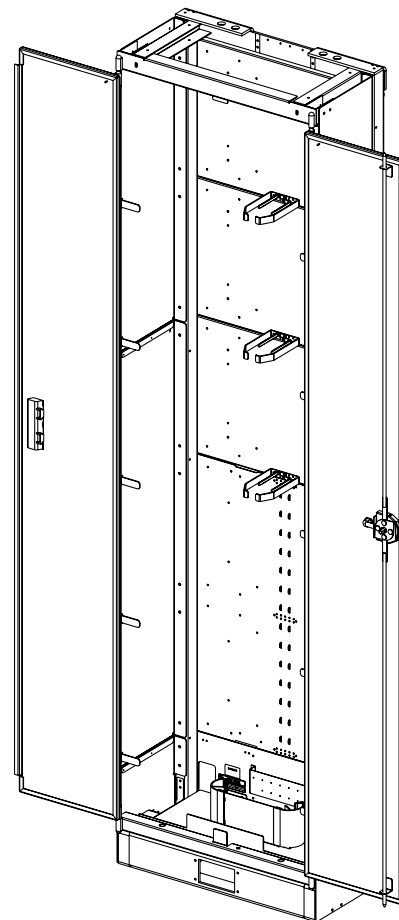
OMX slack storage solution

# OMX Optical Distribution Frame

## Frame Section

### DESCRIPTION

- Provides mounting locations for termination, splice and storage modules
- Completely front-facing; all mounting, maintenance and cable access is done on the front of the frame
- Lower trough allows multiple frames to be mounted in a continuous lineup
- Shipped with lockable front doors
- Preconfigured bays are available; please contact your TE Connectivity representative for ordering information



### ORDERING INFORMATION

Description	Dimensions (HxWxD)	Ordering Number
OMX 600 frame section	2200mm x 600mm x 300mm	MX6-TSF6030

# OMX Optical Distribution Frame

## Termination Module with Adapters Only

### DESCRIPTION

- Available with 96 or 144 adapters
- Ordered with a "left" orientation (mounts on left side of frame) or a "right" orientation (mounts on right side of frame)
- TE recommends the use of 1.8mm patch cords to maximize OMX's cable management potential

### ORDERING INFORMATION



# OMX Optical Distribution Frame

## Termination Module with Pigtails

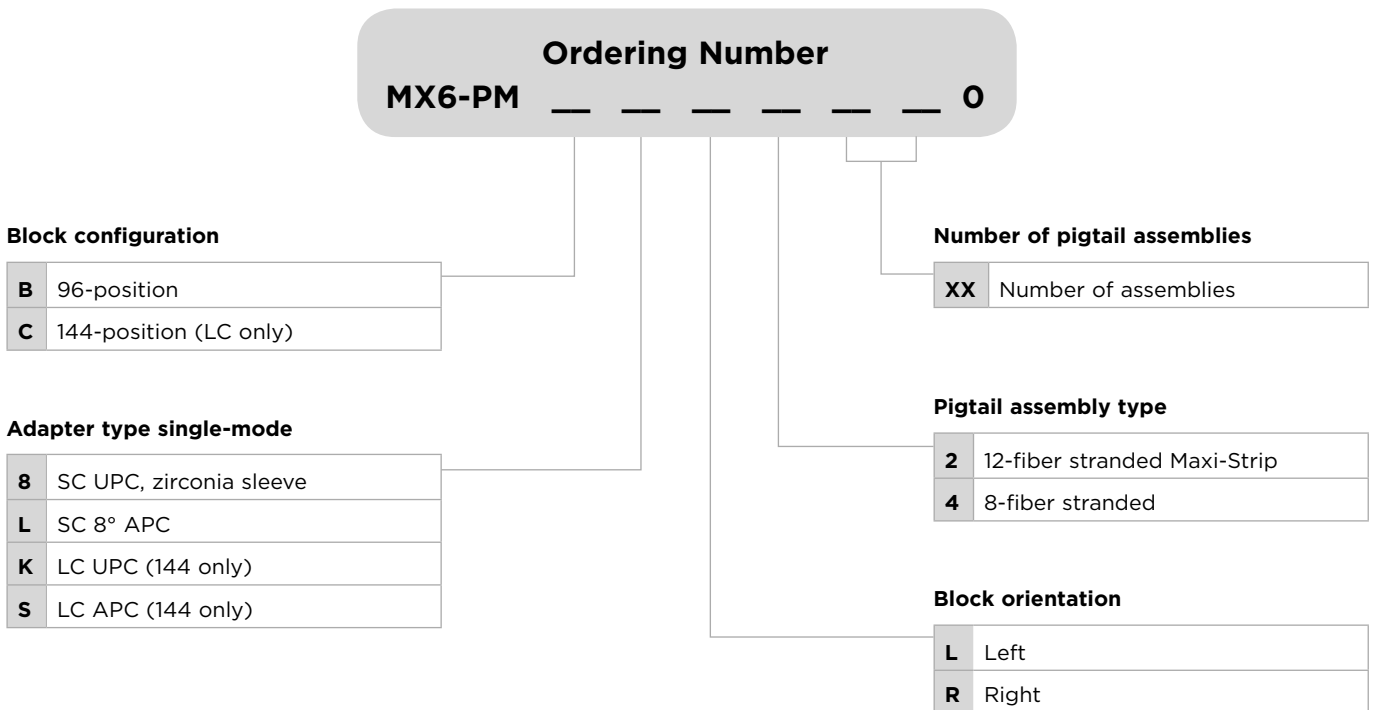
### DESCRIPTION

- Available with either stranded or ribbon preterminated fiber bundles
- Modules mounted on the frame and fiber bundles then routed directly to splice section of frame; quick and easy installation, saving valuable technician time
- Ordered with a "left" orientation (mounts on left side of frame) or a "right" orientation (mounts on right side of frame)
- TE recommends the use of 1.8mm patch cords to maximize OMX's cable management potential



96-Position

### ORDERING INFORMATION



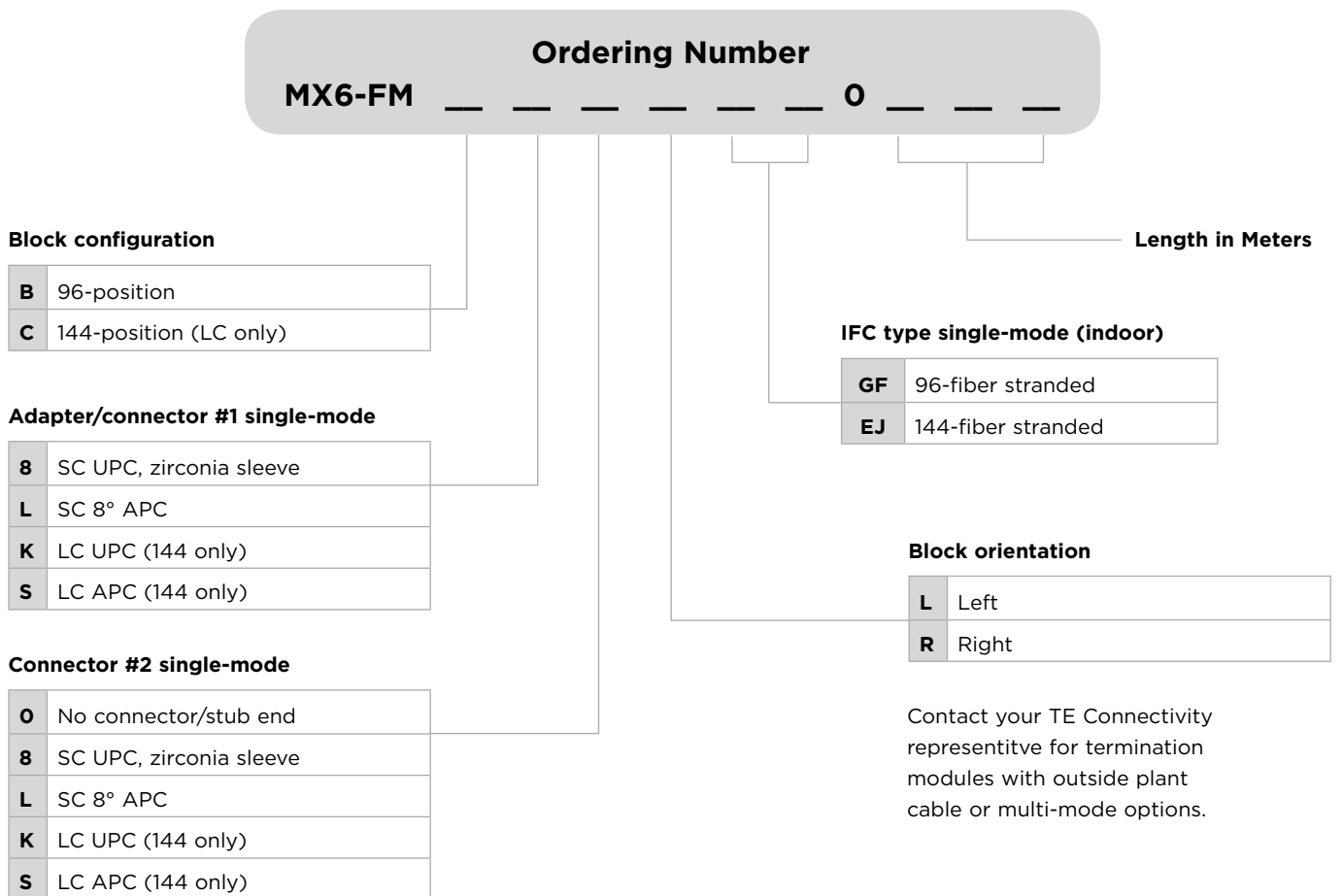
# OMX Optical Distribution Frame

## Termination Module with Intrafacility Cable

### DESCRIPTION

- Available with either indoor or outdoor rated cable in stranded configurations
- 100% factory tested to guarantee continuity and reliable connections
- Quick, easy installation reduces labor costs.
- Ordered with a "left" orientation (mounts on left side of frame) or a "right" orientation (mounts on right side of frame)
- TE recommends the use of 1.8mm patch cords to maximize OMX's cable management potential

### ORDERING INFORMATION

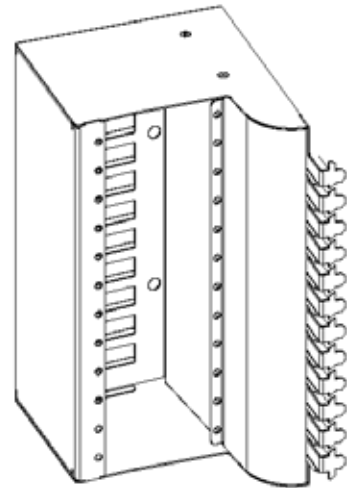


# OMX Optical Distribution Frame

## Value-Added Module System Chassis

### DESCRIPTION

- Fit into any open chassis location within and is completely forward and backward compatible with any OMX frame
- Standard chassis accommodate a maximum of ten OCM1 (26 mm high) splitter and xWDM plug-in modules, ten bulkhead plates, ten blank plates or any combination thereof
- Symmetrical design; mounts in either left or right chassis mounting position
- To order OCM1 modules, please contact your local TE Connectivity sales representative



### ORDERING INFORMATION

Description	Dimensions (HxWxD)	Ordering Number
Unloaded chassis - accommodates up to 10 modules	373mm x 220mm x 267mm	OMXE-M-12OCM1

# OMX Optical Distribution Frame

## Splice Module and Splice Tray

### Splice Module

#### DESCRIPTION

- Provides mounting positions and protection for 24 splice trays
- Splice module is height of two termination modules.
- Ordered with a "left" orientation (mounts on left side of frame) or a "right" orientation (mounts on right side of frame)
- Must be mounted starting in bottom position of frame

#### ORDERING INFORMATION

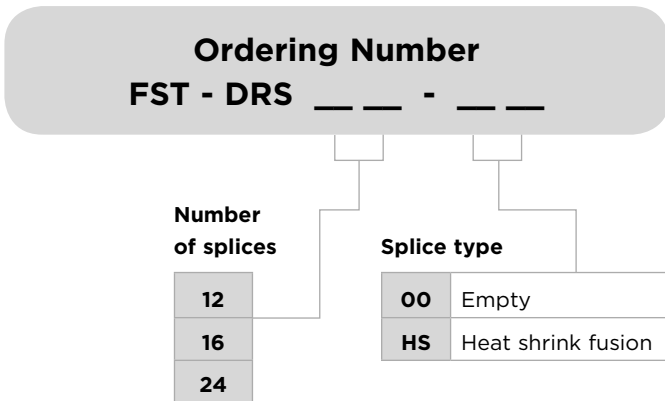
Description	Orientation	Ordering Number
OMX (24) tray splice module	Right	MX6-24SPNL-R
Height = 2 module positions	Left	MX6-24SPNL-L



### Splice Tray

#### DESCRIPTION

- Round splice tray simplifies installation and maintenance
- Stores up to three meters of slack
- Installer can roll tray away from the frame to perform splicing





# OMX Optical Distribution Frame

## Accessories

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### OMX Jumper Storage Module

#### DESCRIPTION

- Provides jumper storage functionality within the frame.
- Up to five jumper storage modules can be mounted on one side frame
- Must be mounted starting in bottom position of frame

#### ORDERING INFORMATION

Description	Ordering Number
OMX 600 jumper storage module	MX6-JSM00000

### OMX Interbay Management Panel

#### DESCRIPTION

- Provides slack storage between frames for interconnect or cross-connect jumpers
- Required when no jumper storage provided on OMX frame itself

#### ORDERING INFORMATION

Description	Dimensions (HxWxD)	Ordering Number
150mm OMX interbay management panel	2200mm x 150mm x 300mm	MX6-IMP150
200mm OMX interbay management panel	2200mm x 200mm x 300mm	MX6-IMP200

### OMX End Guard

#### DESCRIPTION

- Provides protection for fibers entering and exiting frames at ends of a lineup
- Attaches directly to interbay management panel, but does not add to overall frame width
- Not required when ordering splice bays or for bays without external interbay management panels

#### ORDERING INFORMATION

Description	Dimensions (HxWxD)	Ordering Number
OMX end guard	2200mm x 300mm	MX6-ENDGRD

### OMX Outside Plant Cable Clamp

#### DESCRIPTION

- Secures OSP/intrafacility cable to base or top of frame

#### ORDERING INFORMATION

Description	Ordering Number
OMX outside plant cable clamp for <b>top entry cables</b> ; clamps up to 3 cables	OSP-CLPFEC-LG
OMX outside plant cable clamp for <b>underfloor cable entry</b>	MX6-ACC001

# OMX Optical Distribution Frame

## Accessories

### Rack Installation Kits

#### ORDERING INFORMATION

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

### Splice Bay

#### DESCRIPTION

- High-density splice solution
- Houses up to 1440 splices within 600mm x 300mm (ETSI) footprint
- Shipped complete with necessary cable management and lockable front doors
- Features slots which secure and protect round splice trays
- Holds up to 60 twelve-fiber splice trays on each vertical
- May be ordered for applications in which cables enter from above or below

#### ORDERING INFORMATION

Description	Dimensions (HxWxD)	Ordering Number
<b>Fully configured splice bay; accommodates up to 1440 splices</b>	2200mm x 600mm x 300mm	
Cable enters from underfloor		MX6-SPL6030-1440-D
Cable enters from top		MX6-SPL6030-1440-U
<b>Splice bay cable clamps</b>		
For OSP cable (maximum cable outer diameter: 10mm to 28mm)		FEC-ACCCLMP01
For IFC cable (maximum cable outer diameter: 12.7mm to 25.4mm)		MX6-SPLIFCCLMP

## DATA SHEET



#### Tyco Electronics Raychem bvba

Diestsesteenweg 692  
3010 Kessel-Lo, Belgium  
Tel 32-16 351 011  
Fax 32-16 351 697

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[www.TelecomNetworks.com](http://www.TelecomNetworks.com)

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