



## FTTX Solutions

Passive Optical Splitter Modules

7th Edition

EVERY CONNECTION COUNTS





## FTTX Solutions

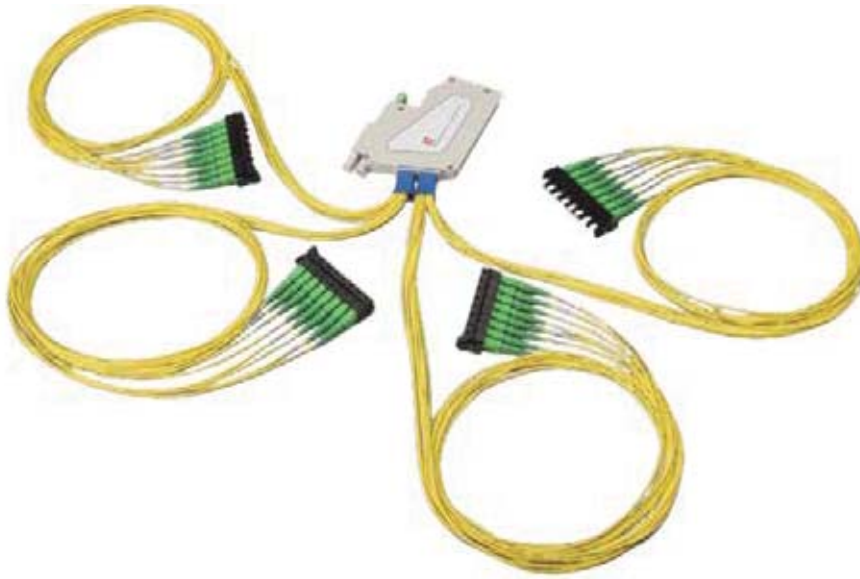
### Passive Optical Splitter Modules

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# FTTX Solutions

## Passive Optical Splitter Modules

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### Introduction

TE's 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, TE's FTTX solutions simplify network installation, maintenance, and management from the central office/headend to the outside plant.

Installed in an outside plant enclosure, passive optical splitter modules give carriers the ability to split optical signals to multiple homes or businesses.

TE splitter modules are protected from exposure and damage by their packaging. Surrounded by superior cable management, technicians need less time to route fiber in the cabinet, saving operating costs. Available in configurations from 1x2 up to 1x64, the modules can be ordered in adapter port or pigtailed versions.

### FEATURES

- Qualified to GR-1209 and GR-1221.
- Industry-leading low loss.
- Terminated with GR-326 certified connectors.
- Rugged package protects delicate splitters from installer handling.
- Variety of package styles allow adaptation to many applications.
- Wideband performance allows operation from 1260nm to 1635nm.

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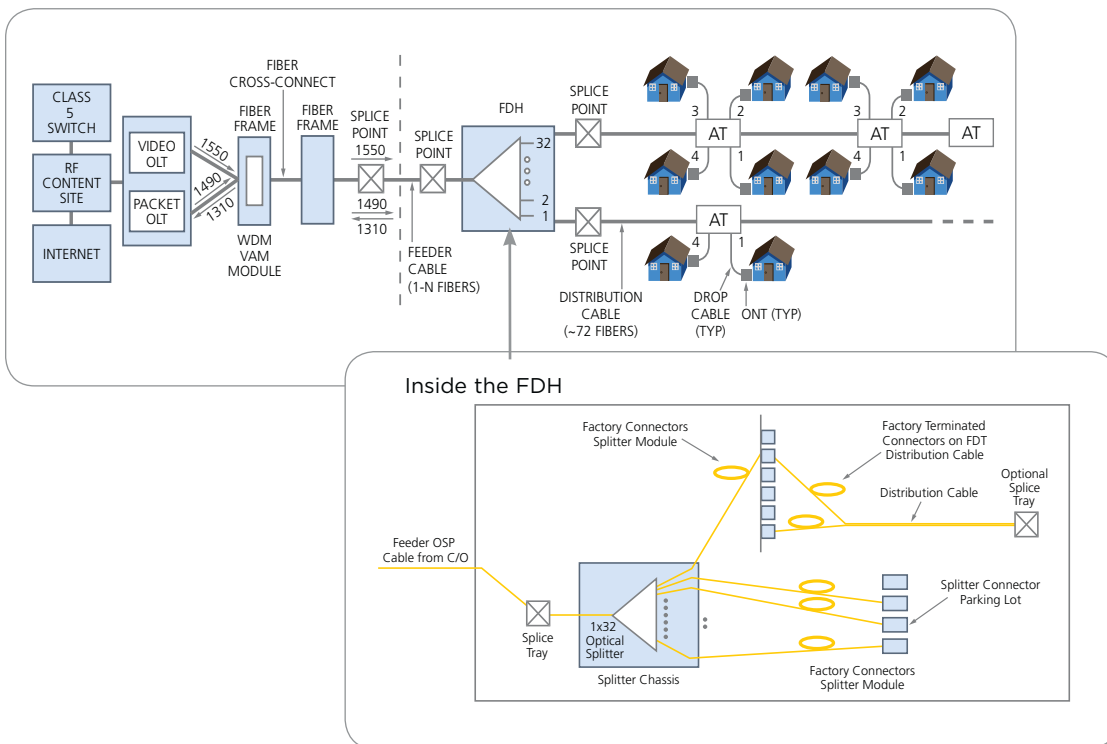
## Passive Optical Splitter Modules – Applications

### Centralized Splitting

There are two main approaches to FTTX optical splitters: centralized and cascaded. TE recommends the centralized approach for several significant reasons.

- The centralized splitter approach maximizes the highest efficiency of expensive OLT cards. Since each home in this approach is fiber-connected directly back to a central hub, all ports on the OLT card are used and 100% efficiency is achieved.
- Provides easy testing and troubleshooting access. It is very difficult to use an optical time-domain reflectometer (OTDR) to test multiple splitters unless the network is built with each fiber characterized to enable the OTDR to recognize each individual fiber run.
- Minimizes signal loss by eliminating extra splices and/or connectors from the distribution network. Each time an optical signal encounters a network component or connection, such as a splitter, it suffers a certain degree of signal loss. Therefore, when splitters are cascaded together, loss will occur at each device. The combined loss effect can reduce the distance a signal can travel, imposing distance limitations on fiber runs.
- Reducing the number of components in the network decreases the number of opportunities for failure.

### SCHEMATIC DIAGRAM OF PON ARCHITECTURE



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## Passive Optical Splitter Modules

### Mini Plug-and-Play Splitter Modules/Splitter Specifications

TE's Mini Plug-and-Play Splitter Modules support centralized splitting architectures. The modules are available in a wide range of split ratios and are used in TE's FDH 3000 series cabinets, chassis, and rack mounts. The rugged packaging is built for high performance, while the true Plug-and-Play design reduces installation time.



#### FEATURES

- Bend-optimized fiber and ruggedized extreme temperature cabling
- Operating temperature range -55° to +85° C
- Superior loss performance at 1490 and 1550 wavelengths
- Easy to insert and remove without affecting adjacent splitters
- Reversible dust cap makes test and turn-up easy
- Allows pass-through of up to 2 fibers per splitter
- Universal module designed for use across applications – cabinets, chassis and frames

#### PERFORMANCE SPECIFICATIONS

| Splitter Type | Max Loss* | Typical Loss* | Uniformity* | Return Loss | Directivity | PDL    | Wavelength Range                  |
|---------------|-----------|---------------|-------------|-------------|-------------|--------|-----------------------------------|
| 1 x 2         | 3.8 dB    | 3.1 dB        | 1.1 dB      | ≥55 dB      | ≥55 dB      | 0.2 dB | 1260 - 1360 nm and 1480 - 1580 nm |
| 1 x 4         | 7.2 dB    | 6.6 dB        | 0.8 dB      | ≥55 dB      | ≥60 dB      | 0.2 dB | 1260 - 1635 nm                    |
| 1 x 8         | 10.3 dB   | 9.7 dB        | 1.0 dB      | ≥55 dB      | ≥60 dB      | 0.2 dB | 1260 - 1635 nm                    |
| 1 x 16        | 13.5 dB   | 12.8 dB       | 1.0 dB      | ≥55 dB      | ≥60 dB      | 0.3 dB | 1260 - 1635 nm                    |
| 1 x 32        | 16.7 dB   | 16.0 dB       | 1.3 dB      | ≥55 dB      | ≥60 dB      | 0.3 dB | 1260 - 1635 nm                    |
| 1 x 64        | 20.4 dB   | 19.7 dB       | 2.0 dB      | ≥55 dB      | ≥60 dB      | 0.4 dB | 1260 - 1635 nm                    |
| 2 x 16        | 14.1 dB   | 12.9 dB       | 2.0 dB      | ≥55 dB      | ≥60 dB      | 0.4 dB | 1260 - 1635 nm                    |
| 2 x 32        | 17.4 dB   | 16.2 dB       | 2.0 dB      | ≥55 dB      | ≥60 dB      | 0.4 dB | 1260 - 1635 nm                    |

For more information, please contact TE's Technical Assistance Center 1.800.366.3691 x73475

\* Includes PDL, WDL and TD. Does not include connector loss

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## Passive Optical Splitter Modules

### Mini Plug-and-Play Splitter Modules

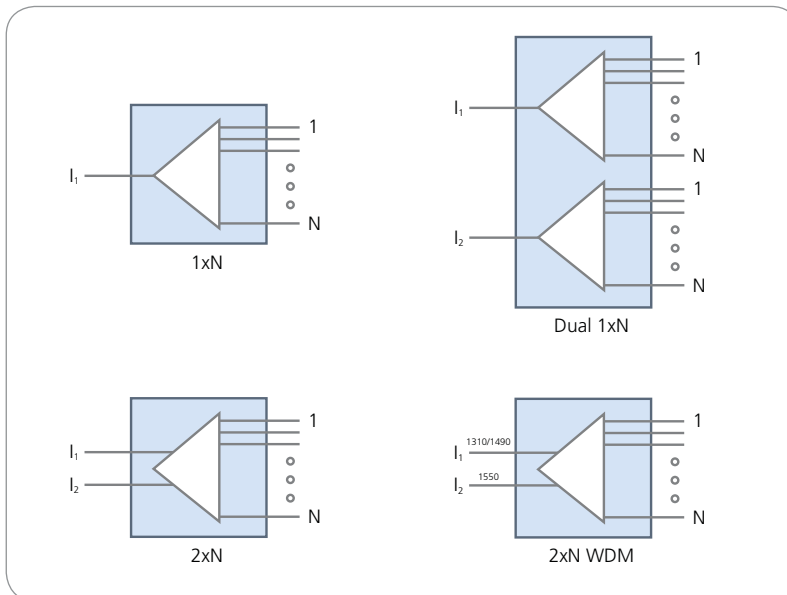
**Part Number**  
**FPS-MPP** \_\_\_\_\_

| Application (fits cabinet type) |   | Output Connector |        |
|---------------------------------|---|------------------|--------|
| 1                               | FDH 3000 54" (137 cm) outputs           | N                | SC/UPC |
| 2                               | Sealed Closure 3000 29" (74 cm) outputs | J                | SC/APC |

| Splitter Type |             | Input Connector |         |
|---------------|-------------|-----------------|---------|
| A             | 1 x 32      | N               | SC/UPC  |
| C             | 1 x 16      | J               | SC/APC  |
| E             | 2 x 32 WDM  | O               | Pigtail |
| G             | 2 x 32      |                 |         |
| J             | 1 x 8       |                 |         |
| L             | Dual 1 x 8  |                 |         |
| M             | Dual 1 x 16 |                 |         |
| N             | 1 x 4       |                 |         |
| P             | 2 x 16      |                 |         |
| S             | 1 x 64      |                 |         |
| U             | Dual 1 x 4  |                 |         |
| W             | 1 x 2       |                 |         |

### SPLITTER TYPE CONFIGUAIONS



$I_1, I_2$  = Inputs

1...N = Outputs

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## Passive Optical Splitter Modules

### NGF Modular Splitter Block

The NGF Modular Splitter Block utilizes TE's latest splitter packaging technology and is used in TE's Next Generation Frame which has unmatched density for fiber management and signal distribution.

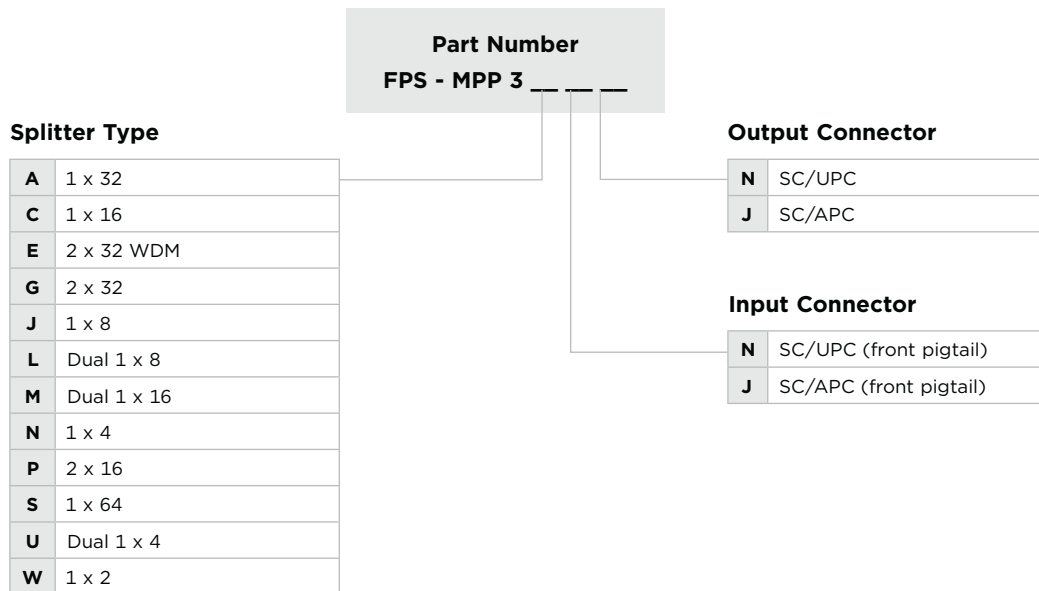


#### FEATURES

- Designed for use with TE High-Density NGF System.
- Modular design allows up to 48 32-way splitters into one 30" NGF Distribution Frame.
- Splitter inputs and outputs terminated to TE's patented sliding adapter pack technology.
- NGF splitter block accepts 4 mini plug-and-play splitters (listed below)

#### ORDERING INFORMATION

| Block Style               | Dimensions  | Part Number  |
|---------------------------|---|--|
| Left side block mounting  | 19.35" x 7.20" x 11.80"<br>(49.14 cm x 18.28 cm x 29.97 cm) | NGF-VSP3-00000L<br>(For ETSI frame: NGF-VSP3-ETSIOL) |
| Right side block mounting | 19.35" x 7.20" x 11.80"<br>(49.14 cm x 18.28 cm x 29.97 cm) | NGF-VSP3-00000R<br>(For ETSI frame: NGF-VSP3-ETSIOR) |



# FTTX Solutions

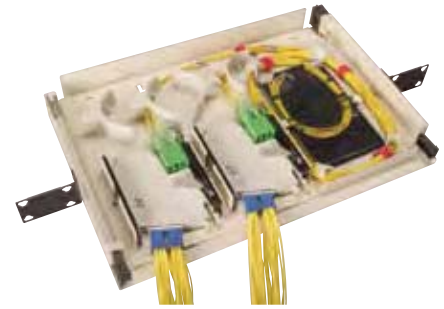
## Passive Optical Splitter Modules

### Rack Mounts for Mini Plug-and-Play Splitters

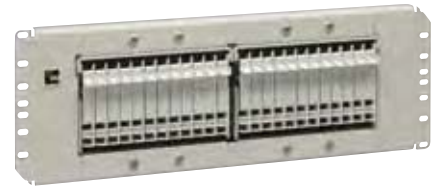
TE's Rack Mounts for Mini Plug-and-Play Splitters are configurable for use in Central Office, Multiple Dwelling Unit (MDU) applications as well as laboratory environments. These chassis come equipped to fit both 19" and 23" rack mount frames.

#### ORDERING INFORMATION

| Description   | Dimensions   | Part Number      |
|---|--|------------------|
| <b>1RU splitter drawer with splice tray - accommodates up to 4 Mini Plug-and-Play splitters</b> | 19/23" x 1.7" x 12"<br>(48.3/58.4 cm x 4.3 cm x 30.5 cm) | FPS-MPPACCRMPNL  |
| <b>Rack mount splitter chassis - accommodates up to 24 Mini Plug-and-Play splitters</b>         | 19/23" x 6.94"<br>(48.3/58.4 cm x 17.6 cm)               | FPS-MPPRACKMT24  |
| <b>Cable management for rack mount splitter chassis</b>   | 19/23" x 5.19"<br>(48.3/58.4 cm x 13.2 cm)               | FPS-MPPRACKMTCM  |
| <b>Parking lot panel for rack mounts</b>  | 19/23" x 3.5"<br>(48.3/58.4 cm x 8.9 cm)                 | ACE-ACC200-PKLT3 |



1RU Splitter drawer



Rack Mount Splitter Chassis



# FTTX Solutions

## Passive Optical Splitter Modules

### Cabinet Mount Splitter Modules

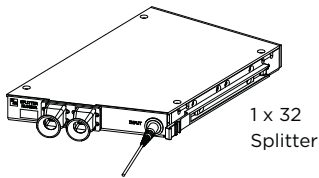
TE's Cabinet Mount Splitter Modules support the installed base of distribution hubs for turning up services to additional customers. The splitters are designed for TE's legacy fiber distribution hub cabinets.

#### FEATURES

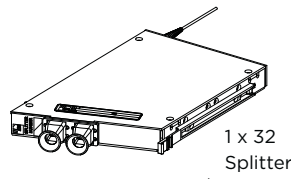
- Rugged 2mm jacketing allows technicians to handle as a standard jumper.
- Strain relief boot protects pigtails from macrobends.
- Splitter outputs labeled with port number, splitter serial number for easy port identification.
- Pull-proof jumpers prevent handling damage.



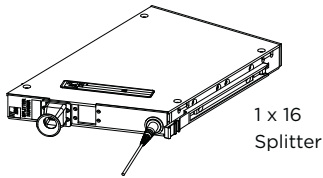
Cabinet Mount Splitter Module



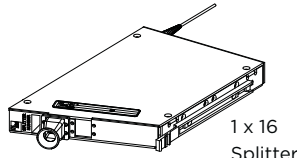
1 x 32 Splitter



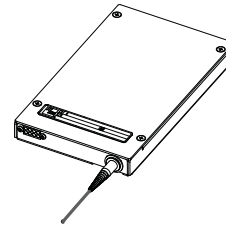
1 x 32 Splitter



1 x 16 Splitter



1 x 16 Splitter



Package Style J

Package Style F, M

Package Style G, N, K

# FTTX Solutions

## Passive Optical Splitter Modules

### Cabinet Mount Splitter Modules

#### ORDERING INFORMATION

| Cabinet Type/Splitter Module           | Part Number     |
|--|-----------------|
| <b>ACE 92/102/132</b>                  |                 |
| 1x32 Splitter                          | FPS-SPF1AJJ     |
| 1x16 Splitter                          | FPS-SPF1CJJ     |
| Dual 1x16 Splitter                     | FPS-SPF1MJJ     |
| Quad 1x8 Splitter                      | FPS-SPF1ZJJ     |
| <b>ACE 142</b>                         |                 |
| 1x32 Splitter                          | FPS-SPK1AJJ     |
| 1x16 Splitter                          | FPS-SPK1CJJ     |
| Dual 1x16 Splitter                     | FPS-SPK1MJJ     |
| Quad 1x8 Splitter                      | FPS-SPK1ZJJ     |
| <b>ACE 152</b>                         |                 |
| 1x32 Splitter                          | FPS-SPM1AJJ     |
| 1x16 Splitter                          | FPS-SPM1CJJ     |
| Dual 1x16 Splitter                     | FPS-SPM1MJJ     |
| Quad 1x8 Splitter                      | FPS-SPM1ZJJ     |
| <b>ACE 204</b>                         |                 |
| 1x32 Splitter                          | FPS-SPG1AJJ     |
| 1x16 Splitter                          | FPS-SPG1CJJ     |
| Dual 1x16 Splitter                     | FPS-SPG1MJJ     |
| Quad 1x8 Splitter                      | FPS-SPG1ZJJ     |
| <b>ACE 214/304</b>                     |                 |
| 1x32 Splitter                          | FPS-SPN1AJJ     |
| 1x16 Splitter                          | FPS-SPN1CJJ     |
| Dual 1x16 Splitter                     | FPS-SPN1MJJ     |
| Quad 1x8 Splitter                      | FPS-SPN1ZJJ     |
| <b>Legacy TE Fiber Access Terminal</b> |                 |
| 1x16 Splitter                          | FPS-SPJ1CJJ     |
| 1x8 Splitter                           | FPS-SPJ1JJJ     |
| 1x4 Splitter                           | FPS-SPJ1NJJ     |
| <b>Legacy FONS Gen 1</b>               |                 |
| 1x32 Splitter                          | OCMF1X4329A09FS |
| Dual 1x16 Splitter                     | OCMF1X4169A10FS |

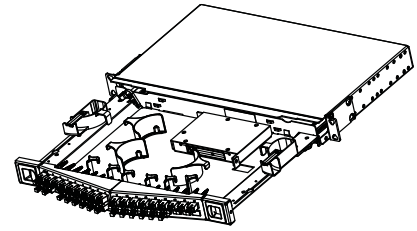
Other splitter configurations are available, please contact TE's Technical Assistance Center 800-366-3891 x73475

# FTTX Solutions

## Passive Optical Splitter Modules

### FMT Splitter Module

TE's FMT Splitter Module is configured for fiber distribution racks in a wide variety of applications. It is a self contained 36 port 1RU chassis with front-access adapter ports that help easy configuration and reconfiguration of rack mount setups.



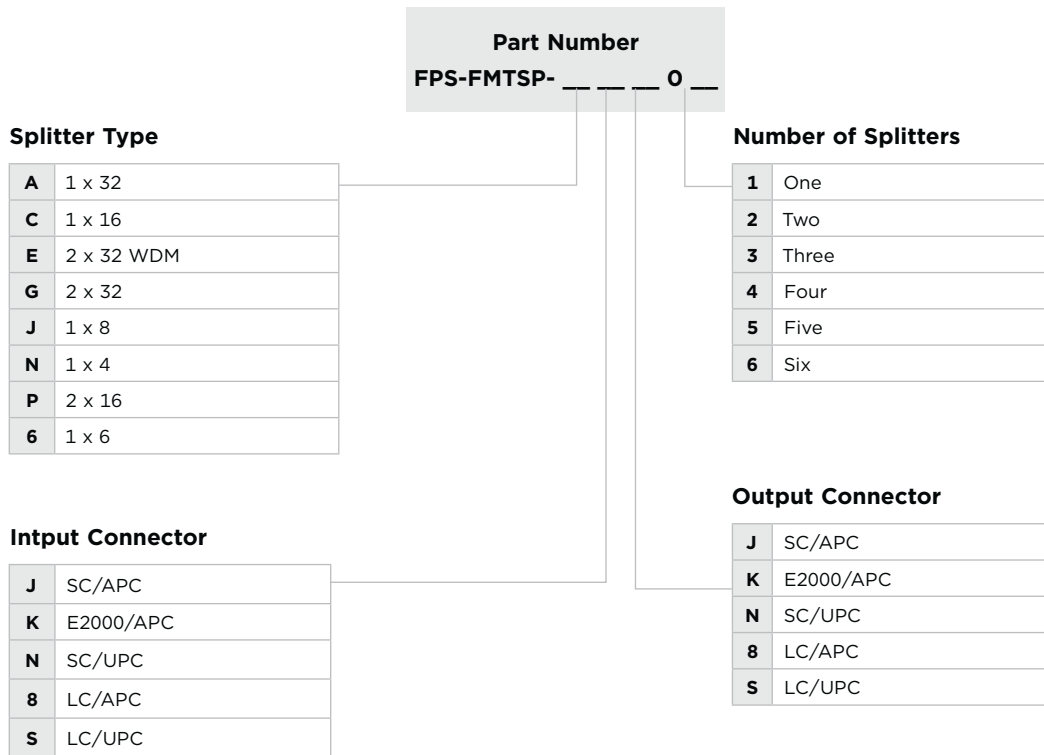
ISO Top View

#### FEATURES

- A non-modular, high-density self-contained unit
- Flexible applications – fitting in any 19" or 23" rack unit
- Designed to fit in 1 RU (1.75")
- Features angle right/angle left adapter panels for strain relief
- Both standard power and WDM splitter capabilities offered

#### SPLITTER CAPACITY (Standard SC form factor connector)

| Splitter Type               | 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|-----------------------------|--------|--------|-------|-------|
| Maximum Number of splitters | 1      | 2      | 3     | 6     |



# FTTX Solutions

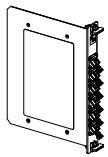
## Passive Optical Splitter Modules

### Rack Mount Splitter Modules-Adapter Port Versions

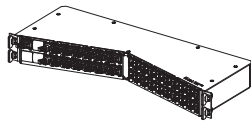
TE's Rack Mount Splitter Modules offer a wide range of splitter functionality in adapter port modules that allow for configurability across the various chassis that can be installed into various fiber management frame styles.

#### FEATURES

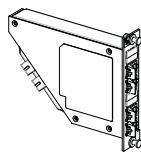
- Removable retainers allow access to rear ports for cleaning
- Colored retainers and designation labeling help technicians distinguish between ports
- Mounts in standard TE fiber management products



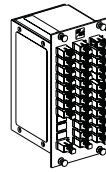
Package Style A



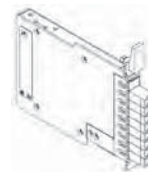
Package Style B



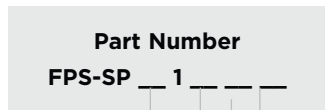
Package Style D



Package Style L



Package Style X



#### Package Type

|          |                     |
|----------|---------------------|
| <b>A</b> | FDf/Standard Style  |
| <b>B</b> | WideVAM style       |
| <b>D</b> | 7" LGX® Style       |
| <b>L</b> | 9" LGX style        |
| <b>X</b> | OMX600 High Density |

#### Output Connector Style

|          |                  |
|----------|------------------|
| <b>N</b> | SC ultra polish  |
| <b>J</b> | SC angled polish |
| <b>B</b> | LC ultra polish  |
| <b>S</b> | LC angled polish |

#### Splitter Type

|          |            |
|----------|------------|
| <b>A</b> | 1 x 32     |
| <b>C</b> | 1 x 16     |
| <b>E</b> | 2 x 32 WDM |
| <b>G</b> | 2 x 32     |
| <b>J</b> | 1 x 8      |
| <b>L</b> | Dual 1 x 8 |
| <b>N</b> | 1 x 4      |
| <b>P</b> | 2x16       |
| <b>U</b> | Dual 1x4   |
| <b>W</b> | 1 x 2      |
| <b>X</b> | Dual 1x2   |
| <b>Y</b> | Dual 2x2   |

#### Input Connector Style

|          |                  |
|----------|------------------|
| <b>N</b> | SC ultra polish  |
| <b>J</b> | SC angled polish |
| <b>B</b> | LC ultra polish  |
| <b>S</b> | LC angled polish |

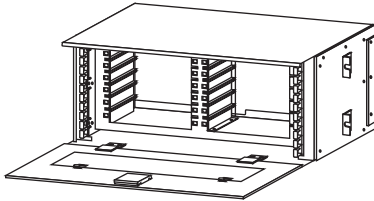
LGX is a registered trademark of Furukawa Electric North America, Inc.

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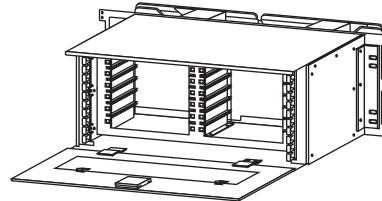
## Passive Optical Splitter Modules

### Fiber Distribution Frame – Standard Chassis

The FDF VAM chassis fits into any open chassis location within an existing TE fiber distribution frame (FDF). The FDF VAM chassis is available with or without rear cable management. It accommodates a maximum of either 12 plug-in modules, 12 bulkhead plates, 12 blank panels or any combination thereof. The 8" rear load chassis mounts in EIA or WEKO racks.



**FDF-STDVAM**  
For TE Front Load Frames ONLY



**FDF-FCMVAM**  
For TE Rear Load Frames ONLY

#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 2      | 4      | 6     | 12    |

Contact your TE representative for additional configurations

#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 2      | 4      | 6     | 12    |

Contact your TE representative for additional configurations

### ORDERING INFORMATION

| Description   | Dimensions (HxWxD)                                 | Part Number* |
|---|--|--------------|
| Unloaded chassis for TE front load frames: No rear cable management or doors attached to module | 8" x 21.6" x 8.7"<br>(20.32 x 54.86 x 22.10 cm)    | FDF-STDVAM   |
| Unloaded chassis for TE rear load frames: Rear cable management and doors attached to module    | 8.0" x 24.4" x 12.1"<br>(20.32 x 61.98 x 30.73 cm) | FDF-FCMVAM   |

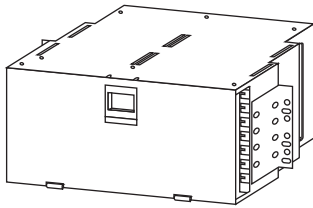
\* Chassis accept adapter port splitters package style A.

# FTTX Solutions

## Passive Optical Splitter Modules

### Inside Subtitle Fiber Distribution Frame - Standard Chassis

The 7" VAM chassis fits into any open chassis location within an existing TE 7" module system FDF or in an LGX-style frame. It accommodates a maximum of 12 single plug-in modules, 12 bulkhead plates, 12 blank panels or any combination thereof. Adjustable mounting brackets are provided for 19" or 23" rack mounting environments. The 7" chassis mounts in EIA or WECO racks.



FVM-19X700

#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 2      | 4      | 6     | 12    |

Contact your TE representative for additional configurations

### ORDERING INFORMATION

| Description  | Rear Doors                    | Dimensions (HxWxD)   | Part Number*  |
|--|-------------------------------|--|---------------|
| <b>Unloaded chassis</b><br>for TE 7" style frames;<br>23" VCG included | without rear doors            | 7" x 19" or 23" x 12"<br>(17.78 x 48.26 cm or 58.42 x 30.48 cm)    | FVM-19X700    |
|  | with rear doors               | 7" x 19" or 23" x 11.03"<br>(17.78 x 48.26 cm or 58.42 x 28.02 cm) | FVM-19X700X11 |
| <b>Front vertical cable guides</b>                                     | for 19" mounting environments |  | VCG-25        |
|  | for 23" mounting environments |  | VCG-45        |

\* Chassis accept adapter port splitters package style A.

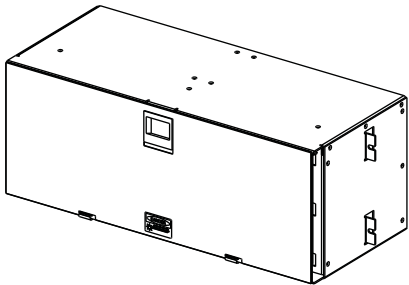
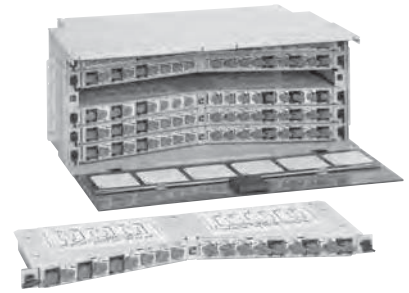
# FTTX Solutions

## Passive Optical Splitter Modules

### Fiber Distribution Frame (FDF) WideVAM Chassis

TE's WideVAM family of products allows for an even more efficient integration of optical components into the FDF. WideVAM chassis are available for both the 8" FDF product family and universal 19"/23" rack mount environments. The WideVAM chassis continue to provide the utmost protection, modularity and flexibility for all optical component needs.

The WideVAM product incorporates 18 front and 10 rear ports to provide 50 percent more density than the standard FDF VAM. 7-inch and 8-inch WideVAM chassis are available, ensuring consistent, superior cable management within the frame.



WideVAM Chassis for TE Front-Load Frames

#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 3      | 6      | 12    | 24    |

Contact your TE representative for additional configurations

### ORDERING INFORMATION

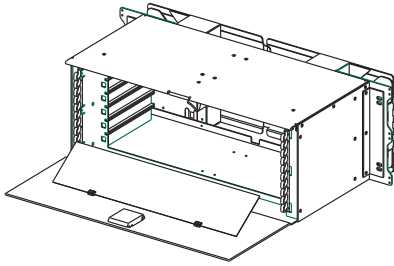
| Description  | Dimensions (HxWxD)                               | Part Number* |
|--|--|--------------|
| Unloaded chassis for TE front load frames; accommodates (6) 1 x 16 or (3) 1 x 32 WideVAM modules | 8" x 21.6" x 8.84"<br>(20.32 x 54.86 x 22.45 cm) | FDF-STDWVAM  |

\* Chassis accept adapter port splitters package style B.

# FTTX Solutions

## Passive Optical Splitter Modules

### WideVAM Chassis for TE Frames



#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 3      | 6      | 12    | 24    |

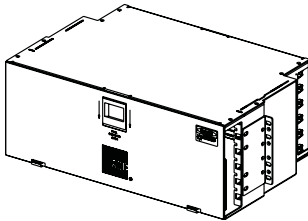
Contact your TE representative for additional configurations

#### ORDERING INFORMATION

| Description   | Dimensions (HxWxD)                              | Part Number* |
|---|---|--------------|
| Unloaded chassis for TE frames; accommodates (6) 1 x 16 or (3) 1 x 32 WideVAM modules | 8" x 24.41" x 12.11"<br>(20.32 x 62 x 30.76 cm) | FDF-FCMWWAM  |

\* Chassis accept adapter port splitters package style B.

### WideVAM 7" Chassis



#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 3      | 6      | 12    | 24    |

Contact your TE representative for additional configurations

#### ORDERING INFORMATION

| Description  | Dimensions (HxWxD)                              | Part Number* |
|--|---|--------------|
| 7" unloaded chassis; accommodates (6) 1 x 16 or (3) 1 x 32 WideVAM modules | 7" x 19" x 11.94"<br>(17.78 x 48.26 x 30.33 cm) | FVM-19X700W  |

\* Chassis accept adapter port splitters package style B.



# FTTX Solutions

## Passive Optical Splitter Modules

### Optical Distribution Frame (OMX) Chassis

The OMX600 high-density VAM chassis is designed to fit into any open chassis location within new or existing OMX600 fiber distribution frames. Each chassis can accommodate a maximum of 18 high-density VAM plug-in modules, 18 bulkhead plates, 18 blank plates or any combination thereof.

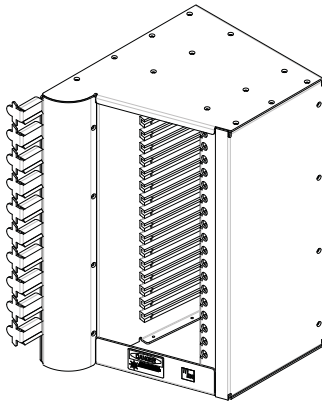


OMX600 High-Density VAM Chassis (Right Orientation)

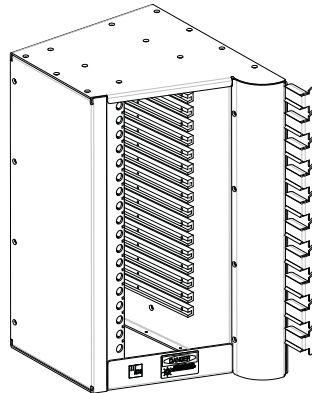
### ORDERING INFORMATION

| Description   | Dimensions (HxWxD)                                 | Orientation       | Part Number*    |
|---|--|-------------------|-----------------|
| <b>OMX600 high-density VAM chassis, unloaded;</b><br>accommodates up to 18 single OMX600 high-density modules | 373 mm x 227 mm x 286 mm<br>(14.7" x 8.9" x 11.3") | Left orientation  | MX6-HDVAMCHAS-L |
|   |  | Right orientation | MX6-HDVAMCHAS-R |

\*Chassis accepts adapter port splitters package style X



MX6-HDVAMCHAS-L  
(Left Orientation)



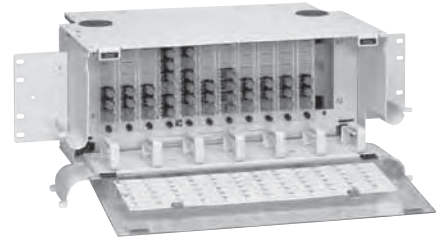
MX6-HDVAMCHAS-R  
(Right Orientation)

# FTTX Solutions

## Passive Optical Splitter Modules

### Chassis for LGX®, LSX and NG3 Compatible Frames

The 7" and 9" chassis are designed to fit into any open chassis location within new or existing LGX-compatible fiber frames. It can accommodate a maximum of 12 plug-in modules, 12 bulkhead plates, 12 blank plates, or any combination thereof. The mounting slots are oriented vertically.



### 7" Chassis – VAM Vertical Mount

#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 2      | 4      | 8     | 12    |

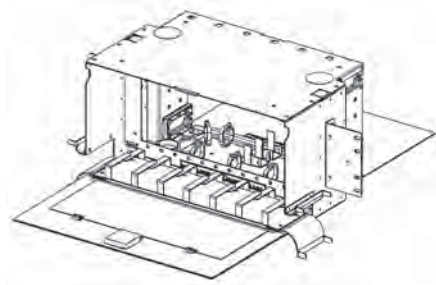
Contact your TE representative for additional configurations

#### ORDERING INFORMATION

| Description   | Dimensions (HxWxD)                                    | Part Number*    |
|---|---|-----------------|
| 7" unloaded chassis; VAMs mount vertically; accommodates up to 12 modules | 7" x 19/23" x 11"<br>(17.78 x 48.26/58.42 x 27.94 cm) | FVM-VLM19X700-W |

\* Chassis accept adapter port splitters package style D.

### 9" Chassis – VAM Vertical Mount



#### SPLITTER CAPACITY

(Standard SC form factor connector)

| 1 x 32 | 1 x 16 | 1 x 8 | 1 x 4 |
|--------|--------|-------|-------|
| 4      | 6      | 12    | 12    |

Contact your TE representative for additional configurations

#### ORDERING INFORMATION

| Description   | Dimensions (HxWxD)                                   | Part Number*    |
|---|--|-----------------|
| 9" unloaded chassis; VAMs mount vertically; accommodates up to 12 modules | 9" x 19/23" x 11"<br>(22.9 x 48.26/58.42 x 27.94 cm) | FVM-VLM19X900-W |

\* Chassis accept adapter port splitters package style L.