



FACT Optical Distribution Frame Platform for APAC Ordering Guide

Document History

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| 0.2 | 30/04/2020 | Brian Workman | Updated to remove references to ANT Splice Holders |
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1 Introduction

1.1 Purpose of this Document

| Purpose | Explanation |
|----------------|---|
| Who is it for? | Pre-Sales (Field Application) Engineers and Sales Team Members in APAC region |
| Purpose | Describe the FACT solution and Common Configurations |
| In Scope | FACT Frame, Splice Only, Splice-Patch, NG4 Chassis, MPO Modules |
| Out of Scope | Pre-cabled solutions and NG4access® Value-added Modules (VAM) |

Table 1: Document Purpose Summary

1.2 Related Documents

Please use this FACT Optical Distribution Frame Platform for APAC Ordering Guide in conjunction with the following documents:

| Document Identification | Document Title |
|-------------------------|----------------------------------|
| | FACT Configurator |
| | FACT Configuration Tool Handbook |

Table 2: FACT Optical Distribution Frame Platform for APAC Related Documents

1.3 Document Symbols

The following safety warning symbols and in-document icons are used throughout this FACT Optical Distribution Frame Platform for APAC Ordering Guide:







| Purpose | Explanation |
|---|---|
|  | Warning: <i>This section requires special attention. Misuse/neglect of the information provided may result in may result in injury or death.</i> |
|  | Caution: <i>This is a general warning, and section requires attention. Failure to follow directions provided may result in personal injury or equipment damage.</i> |
|  | Electrostatic Device: <i>This is a hazard warning, highlighting that the equipment is susceptible to Electrostatic discharge. Observe precautions for handling electrostatic sensitive devices. Failure to follow directions provided may result in equipment damage.</i> |
|  | Laser Beam Hazard: <i>This is a hazard warning, highlighting the presence of invisible laser radiation from disconnected fibres or connectors. Observe precautions for handling opto-electronic devices. Failure to follow directions provided may result in personal injury.</i> |
|  | First Aid: <i>Information presented here provides recommended procedure for administering First Aid to victim.</i> |
|  | Important Note: <i>Information presented here requires special attention.</i> |

Table 3: Document Symbols

1.4 Document Abbreviations and Acronyms

The following table outlines the common abbreviations and acronyms used throughout this FACT Optical Distribution Frame Platform for APAC Ordering Guide:

| Abbreviations and Acronyms | Definition |
|----------------------------|---|
| APC | Angle Physical Contact |
| CC | Cross-Connect |
| CCF | Cross-Connect Frame |
| °C | Degrees Centigrade |
| IC | Interconnect |
| ISP | Inside Plant |
| LC | Lucent Connector |
| LHS | Left Hand Side |
| LHP | Left Hand Patch |
| LL | Low Loss |
| m | Metres |
| mm | Millimetres |
| MAC | Moves, Adds and Changes |
| MPO | Multi-Fibre Push On |
| ODF | Optical Distribution Frame |
| OSP | Outside Plant |
| ∅ | Diameter |
| RHS | Right Hand Side |
| RHP | Right Hand Patch |
| RU | Rack Units |
| SC | Standard Connector/Subscriber Connector |
| SU | System Unit |
| ULL | Ultra-Low Loss |
| UPC | Ultra-Physical Contact |

Table 4: Document Abbreviations and Acronyms

2 Health and Safety

Observe the following precautions when performing the various tasks outlined in this instruction guide.










| Symbol | Description |
|---|--|
|  | WARNING: Never look directly into the end of a fibre. <i>Laser light can be invisible and can damage your eyes. Viewing it directly does not cause pain. The iris of the eye will not close involuntarily as when viewing a bright light. Consequently, serious damage to the retina of the eye is possible. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.</i> |
|  | CAUTION: Safety Glasses <i>Safety glasses (spectacles) are recommended for eye protection from accidental injury when handling chemicals, cables, or working with fibre. Pieces of glass fibre are very sharp and have the potential to damage the eye.</i> |
|  | CAUTION: Safety Gloves <i>The wearing of cut-resistant safety gloves to protect your hands from accidental injury when using sharp-bladed tools is strongly recommended.</i> |
|  | CAUTION: Cable Handling Precautions. <i>Fibre optic cable is sensitive to excessive pulling, bending, and crushing forces. Consult the cable specification sheet for the cable you are installing. Do not apply more pulling force to the cable than specified. Do not crush the cable or allow it to kink. Doing so may cause damage that can alter the transmission characteristics of the cable; the cable may have to be replaced.</i> |
|  | CAUTION: Cable Management. <i>Managing cables and gators in pits require diligence. Ensure cables do not exceed the minimum bend radius. Ensure installation of cables do not interfere with outside plant in situ. Do not lace cables in pits and manholes</i> |
|  | CAUTION: Cutting Cable Strength Members. <i>Use extreme care when cutting central strength members to prevent damage to the buffer tubes. WEAR EYE PROTECTION WHENEVER YOU CUT A STRENGTH MEMBER. Hold the loose end of the strength member as you cut, to prevent the offcut from striking you or others</i> |
|  | WARNING: Filling Compound Remover Precautions. <i>Contains petroleum distillates. Harmful or fatal if swallowed. Call a physician immediately. Note: Citrus oil is the preferred compound filler cleaning substance.</i> |
|  | IMPORTANT: Filling Compound Remover Precautions with Fibre. <i>Use only filling compound removers approved for fibre optic use. Aggressive solvents like white spirits or isopropyl alcohol may damage the matrix of fibre ribbons. Note: Citrus oil is the preferred compound filler cleaning substance.</i> |
|  | Warning: <i>Failure to follow directions provided may result in personal shock, burn or death</i> |

Table 5: Site Hazard and Risks

3 FACT Optical Distribution Frame (ODF) Solution

3.1 Unlock the Potential of Tomorrow's High Fibre Count Networks

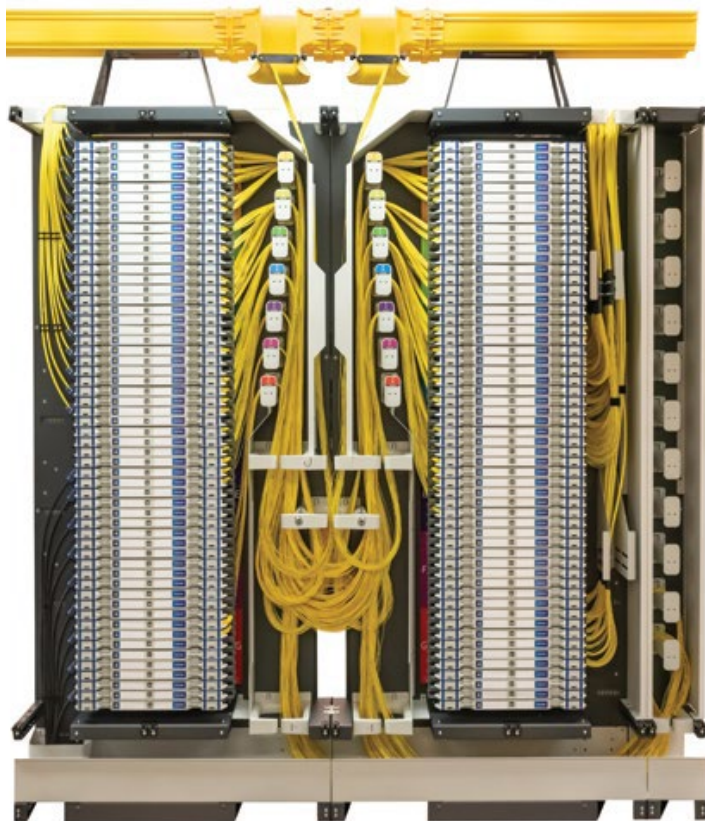


Figure 1: Two Fully Populated FACT Frames

The demands on your network have never been higher. But where others feel pressure, CommScope finds potential. Fuelled by unmatched experience and a history of innovation, we work with you to deliver tailored solutions that unlock the opportunity in your network. Together, we create the cabling and connectivity solutions that keep you moving forward.

In central offices, head-ends and data centres, demand for bandwidth is growing exponentially. The need to install, access, reconfigure and reroute connections is constant. As the physical layer evolves, termination, splicing, patching and storage requirements surpass the capabilities of standard rack and shelf offerings.

Network managers need a better solution, one that supports rapid deployment, plug-and-play connectivity and high density – all while maximizing the usable density and long-term value of the fibre network. The FACT® Optical Distribution Frame (ODF) solution from CommScope is a compact, **fully front-accessible** solution that maximizes usable density and supports the continued growth of your fibre infrastructure.

As a modular solution, the FACT Optical Distribution Frame (ODF) solution is fully customizable: four modular frame versions for simplistic, clear cable routing, configure and incorporate universal adaptor packs, cabled modules, MPO modules and value-added modules to optimize your network needs. The complete FACT solution provides a flexible, reliable and cost-effective solution to your evolving network needs.

Incorporating CommScope's popular NG4access® Optical Distribution Frame modules, FACT provides a flexible, reliable and cost-effective solution to your evolving network needs.

3.2 Powerful Benefits

The forward-looking design of the FACT Optical Distribution Frame solution addresses the most pressing needs for your ever-changing fibre network: reliable performance, seamless transition to future applications and a higher overall return on investment.

3.2.1 Scalable, Manageable Density

With a compact, modular and lightweight frame, high-density plug-and-play elements, and full-frontal access, the FACT Optical Distribution Frame system scales smoothly and logically. The innovative design reduces installation time by as much as 50 percent.

System maintenance is enhanced as well. All fibres are easily identifiable, clearly routed and individually accessible, allowing technicians to:

- Maximize space by installing frames up against a wall or in back-to-back configurations
- Support up to 2,880 individually accessible simplex LC fibre connections in a fully front accessible frame
- Locate and trace individual fibres along easy-to-follow cable routing paths
- Complete moves, adds and changes quickly and accurately
- Minimize installation time to live connections through ample room to work
- Reduce inventory and increase component availability with a single fixed patch cord length for all in-rack and panel connections
- Manage interconnects as well as cross-connects
- Perform advanced splicing, management and storage from a single point
- Up to 4 FACT frames can utilise the same length patch cord (5m) for intra-rack patching connections

3.2.2 Long Term Agility

The FACT ODF solution is designed to flex and grow as the fibre needs of your network continue to evolve. Its modular design and simplified installation and management enable long-term agility to meet tomorrow's challenges.

- Supports the any-to-any configurations of today's leaf-and-spine architecture
- Enables on-the-fly addition of splitters, wavelength division multiplexers (WDMs), taps and connectivity modules

Supports a grow-as-needed approach that avoids overprovisioning and preserves precious capital.

CommScope's FACT solution

Minimizes
installation time
Simplified
installation and
management
enable long-term
agility to meet
tomorrow's
challenges

Lowers total cost
of ownership
through
maximized usable
density

3.2.3 Lower Total Cost of Ownership

Agility and optimized cable management lower total cost of ownership through maximized usable density, more effective capital deployment and improved operational efficiency:

- Maximize fibre density and manageability
- Deploy standard cable configurations to reduce installation and inventory costs
- Decrease troubleshooting time and need to install or reroute fibres
- Reduce mean time to repair and downtime costs
- Accelerate time to market and time to revenue
- Enhance return on investment (ROI)

3.2.4 Modular Design

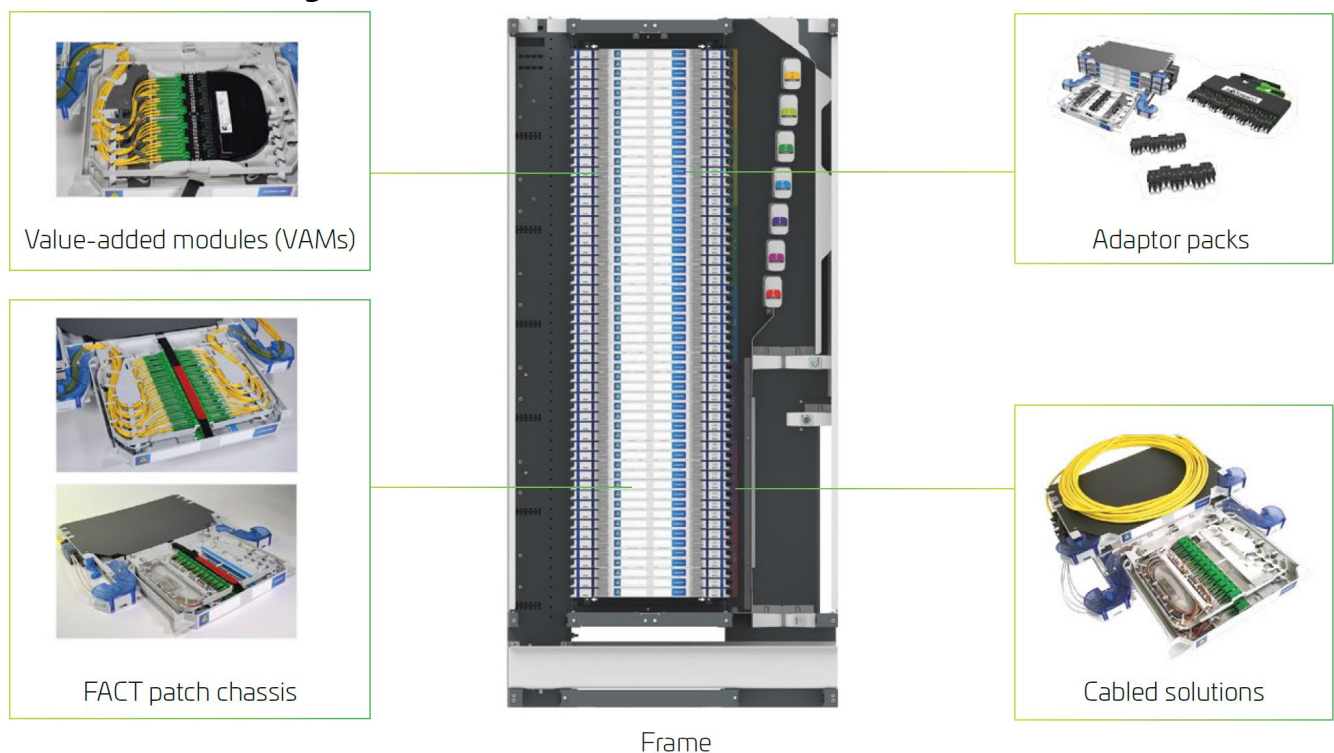


Figure 2: Full Frame Breakout with Horizontal Central Building Blocks

4 FACT Optical Distribution Frame at a Glance

| APPLICATION | |
|---|--|
| General: | Medium to large front access fibre application |
| Location: | Main distribution area or head of row |
| Function: | Cross-Connect (CC, using CC-Frame) Interconnect (IC, using IC-Frame) |
| DIMENSIONS | |
| Width: | 900mm (IC-Frame) 1050mm (CC-Frame) |
| Depth: | 300mm |
| Height: | 2200mm |
| INSTALLATION PRACTICES | |
| Patching Direction: | In Tray |
| CC-Frame: max frames per line-up at max density (recommended): | 4 (without Fibre Guide) - total 10752 single LC-connections 16 (with Fibre Guide) - total 43008 single LC-connections |
| IC-Frame: | Typically, single frame application |
| Recommended Patch Cord OD: | SC: <= 2 mm LC: <= 1.8 mm |
| On Frame Splicing: | Yes, with no density reduction |
| Jumper Slack Storage Location: | On Frame |
| CAPACITY | |
| Connections per Frame (SC/LC): | CC-Frame: 1344/2688 IC-Frame: 1440/2880 |
| Connections per Frame (MPO 12/MPO 24 Fibre): | CC-Frame: 10752/21504 IC-Frame: 11520/23040 |
| Splices per Frame (Splice-Patch Chassis): | CC-Frame: 2688 IC-Frame: 2880 |
| Splices per Frame (Splice-Only Chassis with SMOUV Protector): | CC-Frame: 4032 IC-Frame: 4320 |
| Connection Density for frame width 1050 mm: | SC: 3733/343 |
| | LC: 7466/686 |
| | MPO: 29866/2745 |
| Elements per Frame: | CC-Frame: 56 IC-Frame: 60 |
| VAM (Value Added Module) Capacity: | Yes (FACT-NG4 chassis only) |
| NG4 Adapter packs Capacity: | Yes (FACT-NG4 chassis only) |
| NG4 MPO Modules Capacity: | Yes (FACT-NG4 chassis only) |
| NG4 Cabled Modules Capacity: | Yes (FACT-NG4 chassis only) |
| SPECIFICATIONS | |
| Compliance: | IEC 6300-2 |
| Seismic Rating: | Zone 2 |

Table 6: FACT Optical Distribution Frame Specifications

4.1 The FACT ODF Frame

The FACT® Optical Distribution Frame (ODF) solution begins with CommScope's modular, lightweight FACT frame. The all-purpose, easy-to-use FACT frames are designed to meet today and tomorrow's high-density network needs.

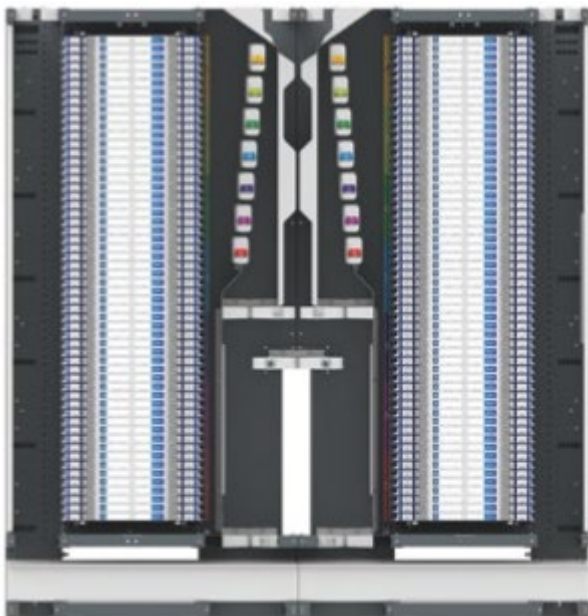


Figure 3: Twin FACT Cross Connect frames - Deployed side-by-side

FACT frames are fully front access and engineered to control bend radius of fibre routing, maintaining superior optical performance and easy access to cables, pigtails and jumpers during installation as well as during moves, adds and changes (MAC). The FACT Cross-Connect Frame can be placed up against a wall or back-to-back (in a quad formation) to maximize usable density. The FACT Cross-Connect Frame includes backplate numbering allowing for simple tracking of fibres whether you route from top to bottom or vice versa. One standard patch cord length (5m) can reach any position in a back-to-back configuration, reducing the number of cable lengths required.

The FACT Interconnect Frame provides dedicated locations for cable routing and color-coded fibre management, supporting up to 2,880 simplex LC connections in a single frame. The frame ships in a lightweight, condensed kit for easy handling, storage and transport. It is easy to install onsite – even by a single operator, in less than 30 minutes.

The FACT frame accommodates not only FACT shelving, but standard 19-inch shelving as well allowing you to increase your density while utilizing your current equipment. The FACT ODF Frame is compatible with a range of accessories such as side panels, doors and cable attachment plates.

Cable attachment plates are incorporated into the side ducts, and a range of accessories such as door kits, top and side panels, overlength storage bays, and extra cable attachment plates are available, as well.

4.1.1 Cross-Connect Applications

The FACT Cross-Connect Frame is the best-in-class frame for applications with a medium or high "moves, adds and changes" frequency (MAC-frequency). FACT Cross-Connect Frames can be used in a single frame application, or when placed together, can be set up in multiple frame configurations to suit any space requirement and allows for additional ease of access to cables during operation, maintenance and upgrades. For larger line-ups, multiple FACT Cross-Connect Frames can be deployed side-by-side. Each FACT Cross-Connect Frame accommodates up to 2688 simplex LC connections.

The FACT Optical Distribution Frame (ODF) system solution works best when using fixed patch cord lengths within the same frame, or between adjacent frames. Patch cords with a diameter of 1.8 mm or less enable an effective usable density of 2,688 connections per frame.



Figure 4: Cross Connect Four-Frame Block (deployed side-by-side)

The diagram below shows an example line-up of a multi-FACT Frame configuration (for a Cross-Connect Application):

| | | | |
|---------|---------|---------|---------|
| Frame C | Frame D | Frame G | Frame H |
| Frame A | Frame B | Frame E | Frame F |

Figure 5: Example Multi-FACT Frame Cross-Connect Configuration

The table below outlines the recommended patch cord lengths for any-to-any cross-connect:

| Patch Cord Length | To Frame | | | | | | | |
|-------------------|----------|---------|---------|---------|---------|---------|---------|---------|
| | Frame A | Frame B | Frame C | Frame D | Frame E | Frame F | Frame G | Frame H |
| Frame A | 5m | 5m | 5m | 5m | 10m | 10m | 10m | 10m |
| Frame B | 5m | 5m | 5m | 5m | 10m | 10m | 10m | 10m |
| Frame C | 5m | 5m | 5m | 5m | 10m | 10m | 10m | 10m |
| Frame D | 5m | 5m | 5m | 5m | 10m | 10m | 10m | 10m |
| Frame E | 10m | 10m | 10m | 10m | 5m | 5m | 5m | 5m |
| Frame F | 10m | 10m | 10m | 10m | 5m | 5m | 5m | 5m |
| Frame G | 10m | 10m | 10m | 10m | 5m | 5m | 5m | 5m |
| Frame H | 10m | 10m | 10m | 10m | 5m | 5m | 5m | 5m |

Table 7: Patch Cord Length Summary for Multi-FACT Frame Configuration

4.1.2 Interconnect Applications

The FACT Interconnect Frame is typically used in a single frame application, with lower MAC frequency, offering a superior density with 2880 simplex LC connections on a smaller footprint.

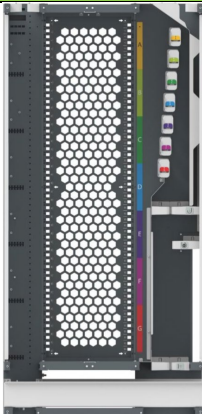
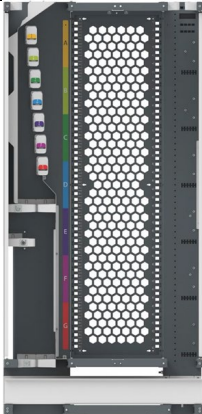
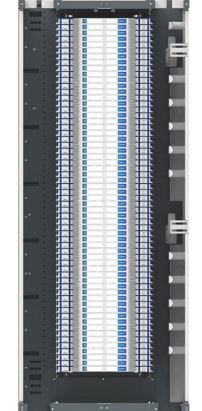
4.2 FACT Frame Accessories (Sold Separately)

Accessories for the FACT ODF including cable termination and retention units (for a wide range of cable sizes and cable types), frame doors and/or side panels, are also available.

5 FACT Ordering Information

5.1 FACT Frame Ordering Information

The table below outlines the ordering information for the various FACT Frame types:

| Description | Unit Picture | Dimensions (H x W x D mm) | Max (Simplex) Terminations (LC/SC) | Catalogue Number (MID) | Catalogue Description |
|---|---|---------------------------------|---|------------------------------|--------------------------|
| FACT Cross-Connect Frame – Right Hand Patch (2.2m) |  | 2200 x 1050 x 300 | 2688/1344 | 760243095 | FACT-FRCCRHP22 |
| FACT Cross-Connect Frame – Left Hand Patch (2.2m) |  | 2200 x 1050 x 300 | 2688/1344 | 760243094 | FACT-FRCCLHP22 |
| FACT Interconnect Frame – Right Hand Patch (2.2m) |  | 2200 x 900 x 300 | 2880/1440 | 760243096 | FACT-FRICRHP22 |


| Description | Unit Picture | Dimensions (H x W x D mm) | Max (Simplex) Terminations (LC/SC) | Catalogue Number (MID) | Catalogue Description |
|--|---|---------------------------|------------------------------------|------------------------|-----------------------|
| FACT Patch Cord Overlength Management Bay (2.2m) |  | 2200 x 200 x 300 | N/A | 760243097 | FACT-FROLB22 |

Table 8: FACT Frame Ordering Information



All FACT Frame kits include:

Wall and back-to-back connection kit

Side-to-side connection kit

Earthing kit

Adjustable feet


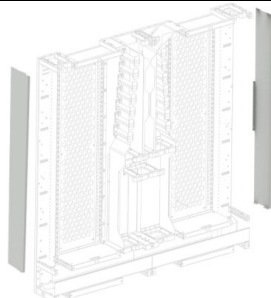
Installation instructions

Colour label kit for spool identification and intuitive patch cord routing

Required hardware and fasteners

Pre-installed position number identification strip for FACT-style and 19"-style

The table below outlines the ordering information for the FACT Frame Accessories:

| Description | Unit Picture | Catalogue Number (MID) | Catalogue Description |
|--|---|------------------------|-----------------------|
| FACT Cross-Connect Frame Door Kit (2.2m) Set of two doors with two door handles per door. The door handles are compatible with half cylinder locks according to DIN 18252 (EN 1303). Note: Locks not included |  | 760243098 | FACT-FRCCD22 |
| FACT Cross-Connect Frame – Side Panel Kit (2.2m) Note: Set of two panels |  | 760243099 | FACT-FRCCP22 |



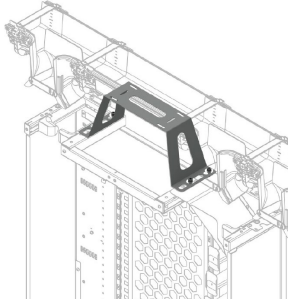

| Description | Unit Picture | Catalogue Number (MID) | Catalogue Description |
|---|---|------------------------|------------------------|
| <p>FACT Interconnect Frame Door Kit (2.2m)</p> <p>Set of two doors with two door handles per door. The door handles are compatible with half cylinder locks according to DIN 18252 (EN 1303).</p> <p>Note: Locks not included.</p> |  | 760243100 | FACT-FRICD22 |
| <p>FACT Patch Cord Overlength Bay Door (2.2m)</p> <p>Set of one door with two door handles. The door handles are compatible with half cylinder locks according to DIN 18252 (EN 1303).</p> <p>Note: Locks not included</p> |  | 760243101 | FACT-FROLBD22 |
| FACT Fibre Guide Fixation Kit |  | 760243110 | FACT-FRACCFGS |
| <p>FACT Door Lock Kit</p> <p>Kit with two half cylinder locks according to DIN 18252 (EN 1303).</p> <p>Notes:</p> <p>Two lock kits are required for a frame door kit</p> <p>One lock kit required for OLB door kit.</p> | | 760245341 | FACT-FRACCDL2 (2-pack) |
| FACT Fanout Plate (FOPL) for up to 32 Fan-Out cables (includes 8 Fan-Out fixations) |  | 760243109 | FACT-FRACCFOPL |

Table 9: FACT Frame Accessories Ordering Information



All FACT Frame accessory kits include:

Installation instructions

Required hardware and fasteners

5.2 FACT Chassis Ordering Information

The building blocks of the FACT Optical Distribution Frame system are the FACT chassis. FACT chassis can be deployed individually as a single-element chassis, or up to six similar elements can be combined into high fibre-count FACT chassis. The single-element FACT chassis measures 30.95 mm tall, 30 percent less than the standard 1RU (44.45 mm). Each FACT element provides full front access to both sides of all connections and clear visibility of all ports. There are four FACT chassis types available:

- Splice-Only Chassis
- Patch-Only Chassis
- Splice-Patch Chassis
- NG4 Chassis

5.2.1 FACT Splice-Only Chassis

The FACT Splice (Splice-Only) chassis is a multipurpose splice shelf featuring 6 or 12 splice trays (72 or 48 SMOUV splices per FACT element, respectively). In combination with the FACT-ACCCTU accessories, the FACT splice chassis supports multiple splice applications, including:

- Outdoor-to-indoor loose-tube cable
- Loose-tube cable to pigtails (single aramid yarn termination)
- Loose-tube cable to breakout or intra-facility (IFC) cable
- Pigtail to pigtail (single aramid yarn termination)



Figure 6: Four-Element Splice-Only Chassis, six trays per Element, 12 SMOUVs per tray

The table below identifies the number of splice trays installed (and total splices) in the FACT Splice-Only Chassis, based on the splice tray type employed:

| Chassis Size | S04 | S12 |
|--------------|----------|----------|
| 1E | 12 (48) | 6 (72) |
| 2E | 24 (96) | 12 (144) |
| 3E | 36 (144) | 18 (216) |
| 4E | 48 (192) | 24 (288) |

Table 10: Number of Trays (Splices) per FACT Splice-Only Chassis



Important Note:

S04 Trays support fibre of 250µm or 900µm

S12 Trays support fibre of 250µm only

The following formula describes how the Catalogue Description is created for the FACT Splice-Only Chassis:

FACT- **XX** SPL **YYY**



Where XX is Element Count:

1E One Element
 2E Two Elements
 3E Three Elements
 4E Four Elements

Where YYY is Splice Holder Type and Count:

S04 Four (4) SMOUV Splices per Tray
 S12 Twelve (12) SMOUV Splices per Tray

The table below outlines the FACT Splice-Only Chassis types available based on the configuration parameters provided above:

| Description | Catalogue Number (MID) | Catalogue Description |
|--|------------------------|-----------------------|
| FACT 1E Splice-Only Chassis with twelve S04 (SMOUV) Splice Trays (Total 48 Splices) | 760239957 | FACT-1ESPLS04 |
| FACT 1E Splice-Only Chassis with six S12 (SMOUV) Splices Trays (Total 72 Splices) | 760239959 | FACT-1ESPLS12 |
| FACT 2E Splice-Only Chassis with twenty-four S04 (SMOUV) Splice Trays (Total 96 Splices) | 760239961 | FACT-2ESPLS04 |
| FACT 2E Splice-Only Chassis with twelve S12 (SMOUV) Splices Trays (Total 144 Splices) | 760239963 | FACT-2ESPLS12 |
| FACT 3E Splice-Only Chassis with thirty-six S04 (SMOUV) Splice Trays (Total 144 Splices) | 760239965 | FACT-3ESPLS04 |
| FACT 3E Splice-Only Chassis with eighteen S12 (SMOUV) Splices Trays (Total 216 Splices) | 760239967 | FACT-3ESPLS12 |
| FACT 4E Splice-Only Chassis with forty-eight S04 (SMOUV) Splice Trays (Total 192 Splices) | 760239972 | FACT-4ESPLS04 |
| FACT 4E Splice-Only Chassis with twenty-four S12 (SMOUV) Splices Trays (Total 288 Splices) | 760239970 | FACT-4ESPLS12 |

Table 11: FACT Splice-Only Chassis Ordering Information



Splice Chassis Sizes:

The largest available Splice-Only Chassis is four (4) Elements

5.2.2 FACT Patch-Only Chassis

The FACT Patch-Only chassis features two hinged trays that supports both Cross-Connect and Interconnect applications. The FACT Patch-Only chassis is available with SC or LC through adaptors that accommodates 24 single (or 12 duplex) SC connections or 48 single (24 duplex) LC connections per element.



Figure 7: 3E Patch-Only Chassis 24 SC/APC Port per Element

The following formula describes how the Catalogue Description is created for the FACT Patch-Only Chassis:

FACT- **XX** PAT **YY**



Where XX is Element Count:

| | |
|----|----------------|
| 1E | One Element |
| 2E | Two Elements |
| 3E | Three Elements |
| 4E | Four Elements |
| 5E | Five Elements |
| 6E | Six Elements |

Where YY is Port Count and Adaptor Type:

| | |
|----|---------------------------------------|
| S1 | SC UPC 24 ports per element |
| S2 | SC APC 24 ports per element |
| L1 | LC UPC 48 single LC ports per element |
| L2 | LC APC 48 single LC ports per element |
| L4 | LC OM4 48 single LC ports per element |

The table below outlines the FACT Patch-Only Chassis types available based on the configuration parameters provided above:

| Description | Catalogue Number (MID) | Catalogue Description |
|---|------------------------|-----------------------|
| FACT 1E Patch-Only Chassis with 48 LC UPC ports per Element (Total 48 Patches) | 760240414 | FACT-1EPATL1 |
| FACT 1E Patch-Only Chassis with 48 LC APC ports per Element (Total 48 Patches) | 760240415 | FACT-1EPATL2 |
| FACT 1E Patch-Only Chassis with 48 LC OM4 ports per Element (Total 48 Patches) | 760240416 | FACT-1EPATL4 |
| FACT 1E Patch-Only Chassis with 24 SC UPC ports per Element (Total 24 Patches) | 760239979 | FACT-1EPATS1 |
| FACT 1E Patch-Only Chassis with 24 SC APC ports per Element (Total 24 Patches) | 760239980 | FACT-1EPATS2 |
| FACT 2E Patch-Only Chassis with 48 LC UPC ports per Element (Total 96 Patches) | 760239982 | FACT-2EPATL1 |
| FACT 2E Patch-Only Chassis with 48 LC APC ports per Element (Total 96 Patches) | 760239983 | FACT-2EPATL2 |
| FACT 2E Patch-Only Chassis with 48 LC OM4 ports per Element (Total 96 Patches) | 760239984 | FACT-2EPATL4 |
| FACT 2E Patch-Only Chassis with 24 SC UPC ports per Element (Total 48 Patches) | 760239981 | FACT-2EPATS1 |
| FACT 2E Patch-Only Chassis with 24 SC APC ports per Element (Total 48 Patches) | 760240065 | FACT-2EPATS2 |
| FACT 3E Patch-Only Chassis with 48 LC UPC ports per Element (Total 144 Patches) | 760239988 | FACT-3EPATL1 |
| FACT 3E Patch-Only Chassis with 48 LC APC ports per Element (Total 144 Patches) | 760239989 | FACT-3EPATL2 |
| FACT 3E Patch-Only Chassis with 48 LC OM4 ports per Element (Total 144 Patches) | 760239990 | FACT-3EPATL4 |
| FACT 3E Patch-Only Chassis with 24 SC UPC ports per Element (Total 72 Patches) | 760239986 | FACT-3EPATS1 |
| FACT 3E Patch-Only Chassis with 24 SC APC ports per Element (Total 72 Patches) | 760240073 | FACT-3EPATS2 |
| FACT 4E Patch-Only Chassis with 48 LC UPC ports per Element (Total 192 Patches) | 760239993 | FACT-4EPATL1 |
| FACT 4E Patch-Only Chassis with 48 LC APC ports per Element (Total 192 Patches) | 760239994 | FACT-4EPATL2 |
| FACT 4E Patch-Only Chassis with 48 LC OM4 ports per Element (Total 192 Patches) | 760239995 | FACT-4EPATL4 |
| FACT 4E Patch-Only Chassis with 24 SC UPC ports per Element (Total 96 Patches) | 760239991 | FACT-4EPATS1 |
| FACT 4E Patch-Only Chassis with 24 SC APC ports per Element (Total 96 Patches) | 760240076 | FACT-4EPATS2 |
| FACT 5E Patch-Only Chassis with 48 LC UPC ports per Element (Total 240 Patches) | 760240432 | FACT-5EPATL1 |
| FACT 5E Patch-Only Chassis with 48 LC APC ports per Element (Total 240 Patches) | 760240433 | FACT-5EPATL2 |
| FACT 5E Patch-Only Chassis with 48 LC OM4 ports per Element (Total 240 Patches) | 760240434 | FACT-5EPATL4 |
| FACT 5E Patch-Only Chassis with 24 SC UPC ports per Element (Total 120 Patches) | 760239997 | FACT-5EPATS1 |

| Description | Catalogue Number (MID) | Catalogue Description |
|---|------------------------|-----------------------|
| FACT 5E Patch-Only Chassis with 24 SC APC ports per Element (Total 120 Patches) | 760240429 | FACT-5EPATS2 |
| FACT 6E Patch-Only Chassis with 48 LC UPC ports per Element (Total 288 Patches) | 760240441 | FACT-6EPATL1 |
| FACT 6E Patch-Only Chassis with 48 LC APC ports per Element (Total 288 Patches) | 760239998 | FACT-6EPATL2 |
| FACT 6E Patch-Only Chassis with 48 LC OM4 ports per Element (Total 288 Patches) | 760240442 | FACT-6EPATL4 |
| FACT 6E Patch-Only Chassis with 24 SC UPC ports per Element (Total 144 Patches) | 760240437 | FACT-6EPATS1 |
| FACT 6E Patch-Only Chassis with 24 SC APC ports per Element (Total 144 Patches) | 760240438 | FACT-6EPATS2 |

Table 12: FACT Patch Only Chassis Ordering Information

5.2.3 FACT Splice-Patch Chassis

The FACT Splice Patch chassis features two hinged trays that are pre-installed with LC/OM4, SC/OM4, SC/APC, SC/UPC, LC/APC or LC/UPC pigtails and corresponding through adaptors. The FACT Splice-Patch chassis enables splicing of OSP or ISP cables directly on the frame with no loss of density. The high-density chassis accommodates 24 single (12 duplex) SC or 48 single (24 duplex) LC connections per FACT element. The pre-installed fibre pigtails follow the EIA/TIA 598 color-coding standard (see adjacent table for details)

| Fibre Number | Fibre Colour Code |
|--------------|-------------------|
| Fibre 1 | Blue |
| Fibre 2 | Orange |
| Fibre 3 | Green |
| Fibre 4 | Brown |
| Fibre 5 | Grey |
| Fibre 6 | White |
| Fibre 7 | Red |
| Fibre 8 | Black |
| Fibre 9 | Yellow |
| Fibre 10 | Purple |
| Fibre 11 | Pink |
| Fibre 12 | Turquoise |

Table 13: Fibre Colour Code



Figure 8: Four Element RHP Splice-Patch Chassis 48 LC/APC Ports per Element (Total 192 Ports)

The following formula describes how the Catalogue Description is created for the FACT Splice-Patch Chassis:

FACT- **XX** **Y** HP **ZZ** **S**


Where XX is Element Count:

| | |
|----|----------------|
| 1E | One Element |
| 2E | Two Elements |
| 3E | Three Elements |
| 4E | Four Elements |
| 5E | Five Elements |
| 6E | Six Elements |

Where ZZ is Port Count and Adaptor Type:

| | |
|----|---|
| SF | 24 SC UPC ports per Element (Grade B connector) |
| SG | 24 SC APC ports per Element (Grade B connector) |
| S4 | 24 SC OM4 ports per Element |
| LF | 48 LC UPC ports per Element (Grade B connector) |
| LG | 48 LC APC ports per Element (Grade B connector) |
| L4 | 48 LC OM4 ports per Element |

Where Y is Patch Cord Side:

| | |
|---|-------|
| L | Left |
| R | Right |

Where S is the Splice Holder Type

| | |
|---|---------------------|
| S | SMOUV Splice Holder |
|---|---------------------|

The table below outlines the FACT Splice-Patch Chassis types available based on the configuration parameters provided above:

| Description | Catalogue Number (MID) | Catalogue Description |
|--|------------------------|-----------------------|
| FACT 1E Splice-Patch Chassis with 48 LC OM4 ports per Element (LHP - Total 48 Ports) | 760240454 | FACT-1ELHPL4S |
| FACT 1E Splice-Patch Chassis with 48 LC UPC ports per Element (LHP - Total 48 Ports) | 760240452 | FACT-1ELHPLFS |
| FACT 1E Splice-Patch Chassis with 48 LC APC ports per Element (LHP - Total 48 Ports) | 760240453 | FACT-1ELHPLGS |
| FACT 1E Splice-Patch Chassis with 24 SC OM4 ports per Element (LHP - Total 24 Ports) | 760240448 | FACT-1ELHPS4S |
| FACT 1E Splice-Patch Chassis with 24 SC UPC ports per Element (LHP - Total 24 Ports) | 760240446 | FACT-1ELHPSFS |
| FACT 1E Splice-Patch Chassis with 24 SC APC ports per Element (LHP - Total 24 Ports) | 760240447 | FACT-1ELHPSGS |
| FACT 1E Splice-Patch Chassis with 48 LC OM4 ports per Element (RHP - Total 48 Ports) | 760240589 | FACT-1ERHPL4S |
| FACT 1E Splice-Patch Chassis with 48 LC UPC ports per Element (RHP - Total 48 Ports) | 760240587 | FACT-1ERHPLFS |
| FACT 1E Splice-Patch Chassis with 48 LC APC ports per Element (RHP - Total 48 Ports) | 760240588 | FACT-1ERHPLGS |
| FACT 1E Splice-Patch Chassis with 24 SC OM4 ports per Element (RHP - Total 24 Ports) | 760240583 | FACT-1ERHPS4S |
| FACT 1E Splice-Patch Chassis with 24 SC UPC ports per Element (RHP - Total 24 Ports) | 760240581 | FACT-1ERHPSFS |
| FACT 1E Splice-Patch Chassis with 24 SC APC ports per Element (RHP - Total 24 Ports) | 760240582 | FACT-1ERHPSGS |
| FACT 2E Splice-Patch Chassis with 48 LC OM4 ports per Element (LHP - Total 96 Ports) | 760240003 | FACT-2ELHPL4S |
| FACT 2E Splice-Patch Chassis with 48 LC UPC ports per Element (LHP - Total 96 Ports) | 760240475 | FACT-2ELHPLFS |
| FACT 2E Splice-Patch Chassis with 48 LC APC ports per Element (LHP - Total 96 Ports) | 760240476 | FACT-2ELHPLGS |

| Description | Catalogue Number (MID) | Catalogue Description |
|---|------------------------|-----------------------|
| FACT 2E Splice-Patch Chassis with 24 SC OM4 ports per Element (LHP - Total 48 Ports) | 760240473 | FACT-2ELHPS4S |
| FACT 2E Splice-Patch Chassis with 24 SC UPC ports per Element (LHP - Total 48 Ports) | 760240471 | FACT-2ELHPSFS |
| FACT 2E Splice-Patch Chassis with 24 SC APC ports per Element (LHP - Total 48 Ports) | 760240472 | FACT-2ELHPSGS |
| FACT 2E Splice-Patch Chassis with 48 LC OM4 ports per Element (RHP - Total 96 Ports) | 760240022 | FACT-2ERHPL4S |
| FACT 2E Splice-Patch Chassis with 48 LC UPC ports per Element (RHP - Total 96 Ports) | 760240610 | FACT-2ERHPLFS |
| FACT 2E Splice-Patch Chassis with 48 LC APC ports per Element (RHP - Total 96 Ports) | 760240611 | FACT-2ERHPLGS |
| FACT 2E Splice-Patch Chassis with 24 SC OM4 ports per Element (RHP - Total 48 Ports) | 760240608 | FACT-2ERHPS4S |
| FACT 2E Splice-Patch Chassis with 24 SC UPC ports per Element (RHP - Total 48 Ports) | 760240606 | FACT-2ERHPSFS |
| FACT 2E Splice-Patch Chassis with 24 SC APC ports per Element (RHP - Total 48 Ports) | 760240607 | FACT-2ERHPSGS |
| FACT 3E Splice-Patch Chassis with 48 LC OM4 ports per Element (LHP - Total 144 Ports) | 760240009 | FACT-3ELHPL4S |
| FACT 3E Splice-Patch Chassis with 48 LC UPC ports per Element (LHP - Total 144 Ports) | 760240494 | FACT-3ELHPLFS |
| FACT 3E Splice-Patch Chassis with 48 LC APC ports per Element (LHP - Total 144 Ports) | 760240495 | FACT-3ELHPLGS |
| FACT 3E Splice-Patch Chassis with 24 SC OM4 ports per Element (LHP - Total 72 Ports) | 760240493 | FACT-3ELHPS4S |
| FACT 3E Splice-Patch Chassis with 24 SC UPC ports per Element (LHP - Total 72 Ports) | 760240492 | FACT-3ELHPSFS |
| FACT 3E Splice-Patch Chassis with 24 SC APC ports per Element (LHP - Total 72 Ports) | 760240006 | FACT-3ELHPSGS |
| FACT 3E Splice-Patch Chassis with 48 LC OM4 ports per Element (RHP - Total 144 Ports) | 760240029 | FACT-3ERHPL4S |
| FACT 3E Splice-Patch Chassis with 48 LC UPC ports per Element (RHP - Total 144 Ports) | 760240629 | FACT-3ERHPLFS |
| FACT 3E Splice-Patch Chassis with 48 LC APC ports per Element (RHP - Total 144 Ports) | 760240630 | FACT-3ERHPLGS |
| FACT 3E Splice-Patch Chassis with 24 SC OM4 ports per Element (RHP - Total 72 Ports) | 760240627 | FACT-3ERHPS4S |
| FACT 3E Splice-Patch Chassis with 24 SC UPC ports per Element (RHP - Total 72 Ports) | 760240625 | FACT-3ERHPSFS |
| FACT 3E Splice-Patch Chassis with 24 SC APC ports per Element (RHP - Total 72 Ports) | 760240626 | FACT-3ERHPSGS |
| FACT 4E Splice-Patch Chassis with 48 LC OM4 ports per Element (LHP - Total 192 Ports) | 760240015 | FACT-4ELHPL4S |
| FACT 4E Splice-Patch Chassis with 48 LC UPC ports per Element (LHP - Total 192 Ports) | 760240514 | FACT-4ELHPLFS |
| FACT 4E Splice-Patch Chassis with 48 LC APC ports per Element (LHP - Total 192 Ports) | 760240515 | FACT-4ELHPLGS |
| FACT 4E Splice-Patch Chassis with 24 SC OM4 ports per Element (LHP - Total 96 Ports) | 760240512 | FACT-4ELHPS4S |

| Description | Catalogue Number (MID) | Catalogue Description |
|---|------------------------|-----------------------|
| FACT 4E Splice-Patch Chassis with 24 SC UPC ports per Element (LHP - Total 96 Ports) | 760240510 | FACT-4ELHPSFS |
| FACT 4E Splice-Patch Chassis with 24 SC APC ports per Element (LHP - Total 96 Ports) | 760240511 | FACT-4ELHPSGS |
| FACT 4E Splice-Patch Chassis with 48 LC OM4 ports per Element (RHP - Total 192 Ports) | 760240057 | FACT-4ERHPL4S |
| FACT 4E Splice-Patch Chassis with 48 LC UPC ports per Element (RHP - Total 192 Ports) | 760240648 | FACT-4ERHPLFS |
| FACT 4E Splice-Patch Chassis with 48 LC APC ports per Element (RHP - Total 192 Ports) | 760240649 | FACT-4ERHPLGS |
| FACT 4E Splice-Patch Chassis with 24 SC OM4 ports per Element (RHP - Total 96 Ports) | 760240646 | FACT-4ERHPS4S |
| FACT 4E Splice-Patch Chassis with 24 SC UPC ports per Element (RHP - Total 96 Ports) | 760240644 | FACT-4ERHPSFS |
| FACT 4E Splice-Patch Chassis with 24 SC APC ports per Element (RHP - Total 96 Ports) | 760240645 | FACT-4ERHPSGS |
| FACT 5E Splice-Patch Chassis with 48 LC OM4 ports per Element (LHP - Total 240 Ports) | 760240540 | FACT-5ELHPL4S |
| FACT 5E Splice-Patch Chassis with 48 LC UPC ports per Element (LHP - Total 240 Ports) | 760240538 | FACT-5ELHPLFS |
| FACT 5E Splice-Patch Chassis with 48 LC APC ports per Element (LHP - Total 240 Ports) | 760240539 | FACT-5ELHPLGS |
| FACT 5E Splice-Patch Chassis with 24 SC OM4 ports per Element (LHP - Total 120 Ports) | 760240534 | FACT-5ELHPS4S |
| FACT 5E Splice-Patch Chassis with 24 SC UPC ports per Element (LHP - Total 120 Ports) | 760240532 | FACT-5ELHPSFS |
| FACT 5E Splice-Patch Chassis with 24 SC APC ports per Element (LHP - Total 120 Ports) | 760240533 | FACT-5ELHPSGS |
| FACT 5E Splice-Patch Chassis with 48 LC OM4 ports per Element (RHP - Total 240 Ports) | 760240673 | FACT-5ERHPL4S |
| FACT 5E Splice-Patch Chassis with 48 LC UPC ports per Element (RHP - Total 240 Ports) | 760240671 | FACT-5ERHPLFS |
| FACT 5E Splice-Patch Chassis with 48 LC APC ports per Element (RHP - Total 240 Ports) | 760240672 | FACT-5ERHPLGS |
| FACT 5E Splice-Patch Chassis with 24 SC OM4 ports per Element (RHP - Total 120 Ports) | 760240667 | FACT-5ERHPS4S |
| FACT 5E Splice-Patch Chassis with 24 SC UPC ports per Element (RHP - Total 120 Ports) | 760240665 | FACT-5ERHPSFS |
| FACT 5E Splice-Patch Chassis with 24 SC APC ports per Element (RHP - Total 120 Ports) | 760240666 | FACT-5ERHPSGS |
| FACT 6E Splice-Patch Chassis with 48 LC OM4 ports per Element (LHP - Total 288 Ports) | 760240566 | FACT-6ELHPL4S |
| FACT 6E Splice-Patch Chassis with 48 LC UPC ports per Element (LHP - Total 288 Ports) | 760240564 | FACT-6ELHPLFS |
| FACT 6E Splice-Patch Chassis with 48 LC APC ports per Element (LHP - Total 288 Ports) | 760240565 | FACT-6ELHPLGS |
| FACT 6E Splice-Patch Chassis with 24 SC OM4 ports per Element (LHP - Total 144 Ports) | 760240560 | FACT-6ELHPS4S |
| FACT 6E Splice-Patch Chassis with 24 SC UPC ports per Element (LHP - Total 144 Ports) | 760240558 | FACT-6ELHPSFS |

| Description | Catalogue Number (MID) | Catalogue Description |
|---|------------------------|-----------------------|
| FACT 6E Splice-Patch Chassis with 24 SC APC ports per Element (LHP - Total 144 Ports) | 760240559 | FACT-6ELHPSGS |
| FACT 6E Splice-Patch Chassis with 48 LC OM4 ports per Element (RHP - Total 288 Ports) | 760240697 | FACT-6ERHPL4S |
| FACT 6E Splice-Patch Chassis with 48 LC UPC ports per Element (RHP - Total 288 Ports) | 760240695 | FACT-6ERHPLFS |
| FACT 6E Splice-Patch Chassis with 48 LC APC ports per Element (RHP - Total 288 Ports) | 760240696 | FACT-6ERHPLGS |
| FACT 6E Splice-Patch Chassis with 24 SC OM4 ports per Element (RHP - Total 144 Ports) | 760240692 | FACT-6ERHPS4S |
| FACT 6E Splice-Patch Chassis with 24 SC UPC ports per Element (RHP - Total 144 Ports) | 760240690 | FACT-6ERHPSFS |
| FACT 6E Splice-Patch Chassis with 24 SC APC ports per Element (RHP - Total 144 Ports) | 760240691 | FACT-6ERHPSGS |

Table 14: FACT Splice-Patch Chassis Ordering Information



Important Note:

All incoming fibre must be 250µm for splicing

All Single Mode Connectors are Grade B

Single-Mode Grade B Connector performance is in accordance with IEC 61755-1

5.2.4 FACT NG4 Chassis

The universal FACT NG4 chassis features two hinged trays that supports NG4access connectivity packs and modules which snap into the FACT NG4 chassis. In addition to SC, LC and MPO adaptor packs, it also accommodates MPO-to-LC modules.

The FACT NG4 element includes two trays; each element can accommodate:

- Four LC adaptor packs
- Four SC adaptor packs
- Four MPO adaptor packs
- Two MPO-to-LC modules



Figure 9: Four-Element FACT NG4 Chassis with LC12 Adaptor Packs



Figure 10: Single-Element FACT NG4 Chassis with right-exit MPO Module

The following formula describes how the Catalogue Description is created for the FACT NG4 Chassis:

FACT- **XX** NG4



Where XX is Element Count:

- 1E** One Element
- 2E** Two Elements
- 3E** Three Elements
- 4E** Four Elements
- 6E** Six Elements

The table below outlines the FACT NG4 Chassis types available based on the configuration parameters provided above:

| Description | Catalogue Number (MID) | Catalogue Description |
|---------------------|------------------------|-----------------------|
| FACT 1E NG4 Chassis | 760239975 | FACT-1ENG4 |
| FACT 2E NG4 Chassis | 760239976 | FACT-2ENG4 |
| FACT 3E NG4 Chassis | 760239977 | FACT-3ENG4 |
| FACT 4E NG4 Chassis | 760239978 | FACT-4ENG4 |
| FACT 6E NG4 Chassis | 760242087 | FACT-6ENG4 |

Table 15: FACT NG4 Chassis Ordering Information



Five (5) Element Chassis:

The FACT five (5) Element NG4 Chassis is not an orderable item.

5.3 Universal Adaptor Packs

FACT universal adaptor packs are designed to accept single-mode and multimode connections with ultra-polished or angle-polished connectors. A staggered adaptor design allows technicians to easily identify and access individual connections without disturbing adjacent circuits and eliminates the need for insertion or extraction tools.

Each FACT element supports up to four universal adaptor packs; two LC12, SC6 or MPO4 adaptor packs can be installed per tray.

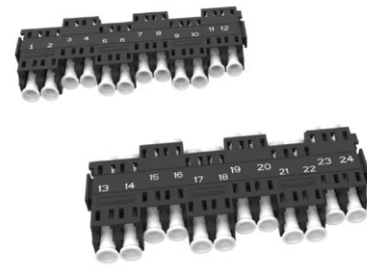


Figure 11: LC12 Universal Adaptor Pack

The table below outlines the NG4 Universal Adaptor Pack types available for use in the FACT NG4 Chassis:

| Description | Unit Picture | Capacity (Connections) | Dimensions (H x W x D mm) | Catalogue Number (MID) |
|--|--------------|---------------------------|---------------------------|------------------------|
| NG4 Snap-in LC12 Universal Adaptor Twin Pack NG4 Snap-in LC12 Universal Adaptor Pack (2 Packs required per NG4 Element) | | 24 Single (simplex) LC | 84 x 33 x 10 | NG4-APLC120000 |
| NG4 Snap-in SC6 Universal Adaptor Twin Pack (2 Packs required per NG4 Element) | | 12 Single (simplex) SC | | NG4-APSC060000 |
| NG4 Snap-in MPO4 Adaptor Four-Pack (key up/down - Method A) (2 Packs required per NG4 Element) | | 8 MPO (Method A) | | NG4-APMP040000 |
| NG4 Snap-in MPO4 Adaptor Four-Pack (key up/up – Method B-Enhanced) (2 Packs required per NG4 Element) | | 8 MPO (Method B-Enhanced) | | NG4-APMP0400EB |

Table 16: Universal Adaptor Packs Ordering Information

5.4 MPO Modules

FACT MPO modules enable technicians to route and install higher fibre counts faster and more easily, while simplifying inventory and ordering. The front interface for LC connectors is identical to the cabled module, while the rear integrates a low-loss MPO adaptor - enabling installers to quickly connect MPO trunk cables for rapid installation and turn-up. This module also supports direct connection to electronics, fibre tie cables or top-of-rack systems such as CommScope's Rapid panels or MFPS panel. The MPO module snaps into place within the FACT NG4 tray, and each FACT NG4 element supports up to two MPO modules. Standard available wiring methods are Method A and Method B Enhanced.



Figure 12: Right-Exit MPO Module with LC Adaptors

The following formula describes how the Catalogue Description is created for the MPO Modules:

FACT-MMD **X** **Y** **Z** - **G**



Where X is Module Orientation:

- L** Left
- R** Right

Where Y is Front Connector Type:

- K** LC-UPC
- M** LC-APC
- C** LC OM4
- 5** LC OM5

Where Z is MPO Type:

- E** 12f MPO SM (only compatible with front connector K or M)
- H** 12f MPO MM (only compatible with front connector C or 5)
- 2** 24f MPO MM (only compatible with front connector C or 5)

Where G is Wiring Method:

- A** Method A
- B** Method B Enhanced

The table below outlines the FACT MPO Module types available based on the configuration parameters provided above and suitable for use in the FACT NG4 Chassis:

| Description | Catalogue Number (MID) | Catalogue Description |
|--|------------------------|-----------------------|
| FACT LH 2x12f MPO (Meth A) Module with SM LC-APC Front Connectors | 760244923 | FACT-MMDLME-A |
| FACT RH 2x12f MPO (Meth A) Module with SM LC-APC Front Connectors | 760244924 | FACT-MMDRME-A |
| FACT LH 2x12f MPO (Meth B Enhanced) Module with SM LC-APC Front Connectors | 760244560 | FACT-MMDLME-B |
| FACT RH 2x12f MPO (Meth B Enhanced) Module with SM LC-APC Front Connectors | 760244561 | FACT-MMDRME-B |
| FACT LH 2x12f MPO (Meth A) Module with SM LC-UPC Front Connectors | 760244921 | FACT-MMDLKE-A |
| FACT RH 2x12f MPO (Meth A) Module with SM LC-UPC Front Connectors | 760244922 | FACT-MMDRKE-A |
| FACT LH 2x12f MPO (Meth B Enhanced) Module with SM LC-UPC Front Connectors | 760244558 | FACT-MMDLKE-B |
| FACT RH 2x12f MPO (Meth B Enhanced) Module with SM LC-UPC Front Connectors | 760244559 | FACT-MMDRKE-B |
| FACT LH 2x12f MPO (Meth A) Module with LC-OM4 Front Connectors | 760244853 | FACT-MMDLCH-A |
| FACT RH 2x12f MPO (Meth A) Module with LC-OM4 Front Connectors | 760244854 | FACT-MMDRCH-A |
| FACT LH 2x12f MPO (Meth B Enhanced) Module with LC-OM4 Front Connectors | 760244650 | FACT-MMDLCH-B |
| FACT RH 2x12f MPO (Meth B Enhanced) Module with LC-OM4 Front Connectors | 760244651 | FACT-MMDRCH-B |
| FACT LH 24f MPO (Meth A) Module with LC-OM4 Front Connectors | 760244855 | FACT-MMDLC2-A |
| FACT RH 24f MPO (Meth A) Module with LC-OM4 Front Connectors | 760244856 | FACT-MMDRC2-A |
| FACT LH 24f MPO (Meth B Enhanced) Module with LC-OM4 Front Connectors | 760244652 | FACT-MMDLC2-B |
| FACT RH 24f MPO (Meth B Enhanced) Module with LC-OM4 Front Connectors | 760244653 | FACT-MMDRC2-B |
| FACT LH 2x12f MPO (Meth B Enhanced) Module with LC-OM5 Front Connectors | 760244849 | FACT-MMDL5H-B |
| FACT RH 2x12f MPO (Meth B Enhanced) Module with LC-OM5 Front Connectors | 760244850 | FACT-MMDR5H-B |
| FACT LH 24f MPO (Meth B Enhanced) Module with LC-OM5 Front Connectors | 760244851 | FACT-MMDL52-B |
| FACT RH 24f MPO (Meth B Enhanced) Module with LC-OM5 Front Connectors | 760244852 | FACT-MMDR52-B |

Table 17: MPO Modules Ordering Information

5.5 FACT Cable Termination Kits

FACT cable termination kits enable quick and easy termination of all commonly used cables either with Cable Termination Units (CTUs) directly on the FACT chassis or with Cable Attachment Plates for the larger and/or stiff cables in the cable side duct.

FACT CTUs are specifically designed for termination of most commonly used cables (diameter range: 5-15mm) directly on the FACT chassis. This allows the installer to pre-terminate a cable on the CTU outside the frame.

When using the FACT Frame solution, it is recommended to use the FACT-FRACCCTUxE series.

This CTU series which can only be used with the FACT frame (i.e. not with FIST GR2/3 frames), accommodates stiffer cables and cable diameters up to 15 mm.

FACT Cable Attachment Plates are used for securing very stiff/thick cables and fanout cables in the side duct.

The table below outlines the recommended FACT Cable Termination Unit (CTU) types available for use with the FACT ODF Chassis based on chassis size:

| Description | Diameter Range (cable or flex tube) | Catalogue Number (MID) | Catalogue Description |
|--------------------------------------|---|------------------------|-----------------------|
| FACT 1E Cable Termination Unit (CTU) | 1 to 4 cables with diameter 5 to 8,5 mm or 1 cable with diameter 8,5 to 15 mm | 760243102 | FACT-FRACCCTU1E |
| FACT 2E Cable Termination Unit (CTU) | 1 to 4 cables with diameter 5 to 8,5 mm or 1 cable with diameter 8,5 to 15 mm | 760243103 | FACT-FRACCCTU2E |
| FACT 3E Cable Termination Unit (CTU) | 1 to 4 cables with diameter 5 to 8,5 mm or 1 cable with diameter 8,5 to 15 mm | 760243104 | FACT-FRACCCTU3E |
| FACT 4E Cable Termination Unit (CTU) | 1 to 4 cables with diameter 5 to 8,5 mm or 1 cable with diameter 8,5 to 15 mm | 760243105 | FACT-FRACCCTU4E |
| FACT 5E Cable Termination Unit (CTU) | 1 to 4 cables with diameter 5 to 8,5 mm or 1 cable with diameter 8,5 to 15 mm | 760243106 | FACT-FRACCCTU5E |
| FACT 6E Cable Termination Unit (CTU) | 1 to 4 cables with diameter 5 to 8,5 mm or 1 cable with diameter 8,5 to 15 mm | 760243107 | FACT-FRACCCTU6E |

Table 18: FACT Cable Termination Unit (CTU) Ordering Information



All FACT-FRACCCTU Kits include:

One side guide channel part per chassis element count

One angled part per kit

Cable Preparation:

For cables with diameter greater than 15mm, strip cable at frame entrance and use corrugated tube as transport tubing to the FACT chassis

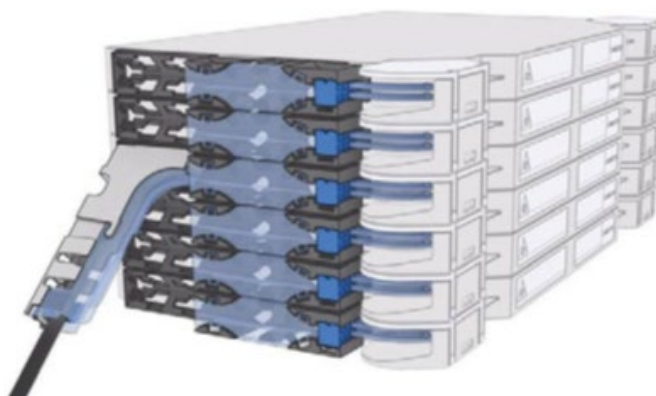


Figure 13: Installed FACT-FRACCCTU6E with Cable Exit in the Bottom Left Corner

The table below outlines the FACT Cable Attachment Plate types available for use in the FACT ODF Frames:

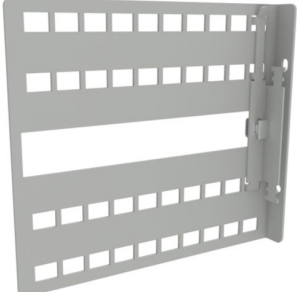



| Description | Unit Picture | Catalogue Number (MID) | Catalogue Description |
|--|---|------------------------|-----------------------|
| FACT Cable Attachment Plate for Frame Side Duct & Cable to Flex Conversion Component Set |  | 760243108 | FACT-FRACCCAPL |
| FACT Cable to Flex Conversion Component Set for Cable Attachment Plate |  | 760243111 | FACT-FRACCCTF |
| FACT Fan-Out Plate (FOPL) for up to 32 Fan-Out Cables (includes 8 Fan-Out fixations) |  | 760243109 | FACT-FRACCCFOPL |
| FACT Fan-Out Fixation Component Sets (set of 8 for Fan-Out Fixation Plate) |  | 760243112 | FACT-FRACCFOFK-8 |

Table 19: FACT Cable Attachment Plate Ordering Information

5.6 FACT in FIST-GR2/3 Frames

The FACT Optical Distribution Frame system is also compatible for use with CommScope's all-purpose FIST-GR3 frames. Based on the ETSI Standard (600mm wide), the frame provides intuitive fibre management and handling, supporting up to 2,688 single (simplex) LC connections in a single frame.

The table below outlines the FIST-GR3 Frame types available for use with the FACT ODF Chassis:

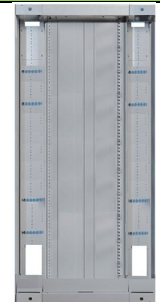
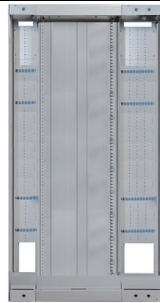
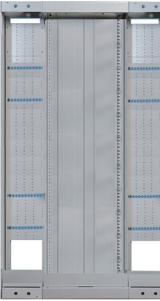
| Description | Unit Picture | Dimensions (H x W x D mm) | Max. Frame (Simplex) Capacity | Catalogue Number (MID) | Catalogue Description |
|---|---|---------------------------|-------------------------------|------------------------|-------------------------|
| FIST-GR3 Frame with 2x 150mm Side Ducts |  | 2200 x 900 x 300 | 2,688 LC or 1,344 SC | CS6171-000 | FIST-GR3-R-150/150-22-2 |
| FIST-GR3 Frame with 1x 150mm and 1x 300mm Side Duct |  | 2200 x 1050 x 300 | 2,688 LC or 1,344 SC | CS6177-000 | FIST-GR3-R-150/300-22-2 |
| FIST-GR3 Frame with 2x 300mm Side Ducts |  | 2200 x 1200 x 300 | 2,688 LC or 1,344 SC | CS6174-000 | FIST-GR3-R-300/300-22-2 |

Table 20: FIST-GR3 Frame Ordering Information



All frames include:

Two side ducts with integrated ETSI mounting profiles to manage and house cables, pigtails, patch cords

Base duct measures 8HU (200mm)

Loose drums (15x)

Cable attachment plates and drum plates integrated into management panel

Wall and back-to-back connection kits

Earthing kit

Adjustable feet

Intuitive installation instructions and footprint template







Rack-painted (powder-coated) light grey (RAL-7035)

Label kit for colour identification of the spools

All hardware and fasteners

The following table summarises the accessories available for the FIST-GR3 Frame when used with the FACT ODF products:

| Description | Picture | Catalogue Number (MID) | Catalogue Description |
|--|---|------------------------|-------------------------------|
| FACT Backplate, mounts four (4) FACT Elements in FIST-GR3 Frame FACT Backplate, mounts four (4) FACT Elements in FIST-GR3 Frame | | 760239955 | FACT-ACCBPL4E |
| FACT Backplate, mounts twenty-eight (28) FACT Elements in FIST-GR3 Frame | | 760239956 | FACT-ACCBPL28E |
| FIST-GR3 Spool Labels | | 860638561 | FIST-GR3-LABEL-COLOR-CODE-2.2 |
| FIST-GR3 Frame Door Kit for 150mm Side-Duct (2.2m) | | CZ9821-000 | FIST-GR3-D-150-22-2 |
| FIST-GR3 Frame Door Kit for 300mm Side-Duct (2.2m) | | CZ9825-000 | FIST-GR3-D-300-22-2 |
| FIST-GR3 Frame Door Kit for 600mm Central Section (2.2m), w/lock | | CZ9827-000 | FIST-GR3-D-600-22-2 |
| FIST-GR3 Frame Top Cover Kit for 150mm Side-Duct (300m deep) | | CZ9047-000 | FIST-GR3-T-150 |
| FIST-GR3 Frame Top Cover Kit for 300mm Side-Duct (300m deep) |  | CW5887-000 | FIST-GR3-T-300 |
| FIST-GR3 Frame Top Cover Kit for 600mm Central Section (300m deep) |  | CK8631-000 | FIST-GR3-T-600 |
| FIST-GR3 Frame Side or Back Panels (set of two) | | CS9084-000 | FIST-GR3-P-300-22 |
| FIST-GR3 Storage Bay (includes a fibre passage for back-to-back configuration) |  | CV7092-000 | FIST-GR3-SB-300-22-2 |

| Description | Picture | Catalogue Number (MID) | Catalogue Description |
|---|---|------------------------|-------------------------|
| FIST-GR3 Frame Extended Base Duct for 150 mm side duct Increases patch cord capacity at bottom of frame; incoming feeder cable must come from top of frame |  | EF7794-000 | FIST-GR3-BD-150/215 |
| FIST-GR3 Frame Extended Base Duct for 300 mm side duct Increases patch cord capacity at bottom of frame; incoming feeder cable must come from top of frame |  | EF7793-000 | FIST-GR3-BD-300/215 |
| FIST-GR3 Frame Side-by-Side Brackets (set of two) |  | CC9465-000 | FIST-GR3-STS |
| FIST GR2/3 Kit to Lead Jumpers from Front to Back of Rack (required when extended base ducts are used) |  | EF8196-000 | FIST-GR3-BD-BTB-600/215 |
| FIST GR2/3 Containment Bracket Kits (maintain Patch Cords in Side-Duct) |  | 315826-000 | FIST-GR2-PCBR-10 |
| FIST GR2/3 Outer C-Cable Clamp for 1 Cable (28-34mm diameter) |  | C77537-000 | FIST-GR2-CAA-1-28/34 |


| Description | Picture | Catalogue Number (MID) | Catalogue Description |
|--|---|------------------------|-----------------------|
| FIST GR2/3 Loose Tube Protection/Transportation Tube (Flex Conduit), 12mm diameter, 50 meters length |  | E43826-000 | FIST-GS-FLEX-12-50 |

Table 21: FIST-GR3 Frame Accessories Ordering Information



Important Note:

It is recommended when installing the FACT ODF Chassis in a FIST GR2/3 Frame that the 28E Backplate be used

The following table summarises the Cable Attachment Plate options for the FIST-GR2/3 Frames:


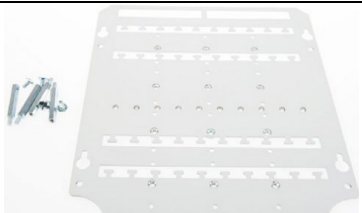
| Description | Picture | Catalogue Number (MID) | Catalogue Description |
|---|---|------------------------|-----------------------|
| FIST GR2/3 Cable Attachment Plate for IFC and Breakout Cable, includes L-Cable Attachment Plate (supports up to ten IFC or Breakout cables and mounts perpendicularly in side-duct) | | EG5792-000 | FIST-GR3-BOIC-LPL |
| FIST GR2/3 Frame Backplate for 300mm side duct - accommodates up to nine (9) L-Cable Attachment plates (FIST-GR2-BOIC-LPL) |  | D35100-000 | FIST-GR2-BOIC-BPL |
| FIST-GR3 Frame Internal Extension Cable Attachment Plate for 150 mm Side-Duct | | CW8226-000 | FIST-GR3-CAP-150-INT |
| FIST-GR3 Frame Internal Extension Cable Attachment Plate for 300 mm Side-Duct |  | EG0850-000 | FIST-GR3-CAP-300-INT |

Table 22: FIST-GR3 Cable Attachment Plate Ordering Information

If you are using a FACT chassis/shelf in a FIST-GR3 frame (or another compatible frame), please use the FACT-ACCCTU Cable Termination Unit (CTU) series and FIST-GR3 cable attachment. The following table summarises the Cable Termination Unit options for use with the FIST-GR2/3 Frames:

| Description | Picture | Catalogue Number (MID) | Catalogue Description |
|---|---------|------------------------|-----------------------|
| FACT Cable Termination Unit (CTU) for one cable (max. diameter 15mm) or one flex tube (diameter 12mm - 16 mm), includes transparent cover | | 760239897 | FACT-ACCCTULLT |
| FACT Cable Termination Unit (CTU) for one cable (max. diameter 15mm) or one flex tube (diameter 12mm - 16 mm) | | 760239898 | FACT-ACCCTUMLT |
| FACT Cable Termination Unit (CTU) for one IFC-Cable (max. diameter 8.5mm) or two IFC-Cables (max. diameter 6mm) | | 760239899 | FACT-ACCCTUMIFC |
| FACT Cable Termination Unit (CTU) Trumpet, for 24 pigtails (diameter 1.8mm - 2.4mm) | | 760239900 | FACT-ACCCTUMP24 |
| FACT Cable Termination Unit (CTU) for one IFC-Cables (max. diameter 8.5mm) or two IFC-Cables (max. diameter 6mm) | | 760239951 | FACT-ACCCTUSIFC |
| FACT Cable Termination Unit (CTU) for one cable (max. diameter 8.5mm) or one flex tube (diameter 6mm - 10mm) | | 760239952 | FACT-ACCCTUSLT |

Table 23: FACT Cable Termination Unit (CTU) for FIST GR2/3 Frames Ordering Information

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