

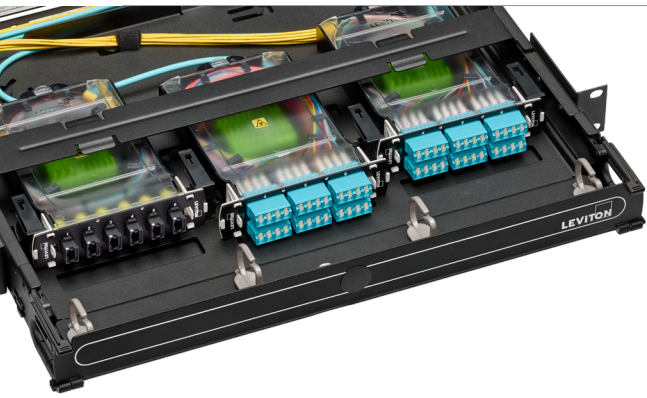


OPT-X[™] Fiber Optic System

Optimized for essential connectivity in the enterprise, Leviton's standard performance SDX Premises system offers 72 fibers per rack-unit density with spliced or mechanical field terminated connectivity to meet a wide variety of application needs and deployment locations. OPT-X fiber optic systems are global solutions available everywhere.

Recommended For:

- Enterprise Building Backbones
- Campus Networks
- Rack or Wall Mount in Telecommunication Rooms
- Active DAS Network Patching



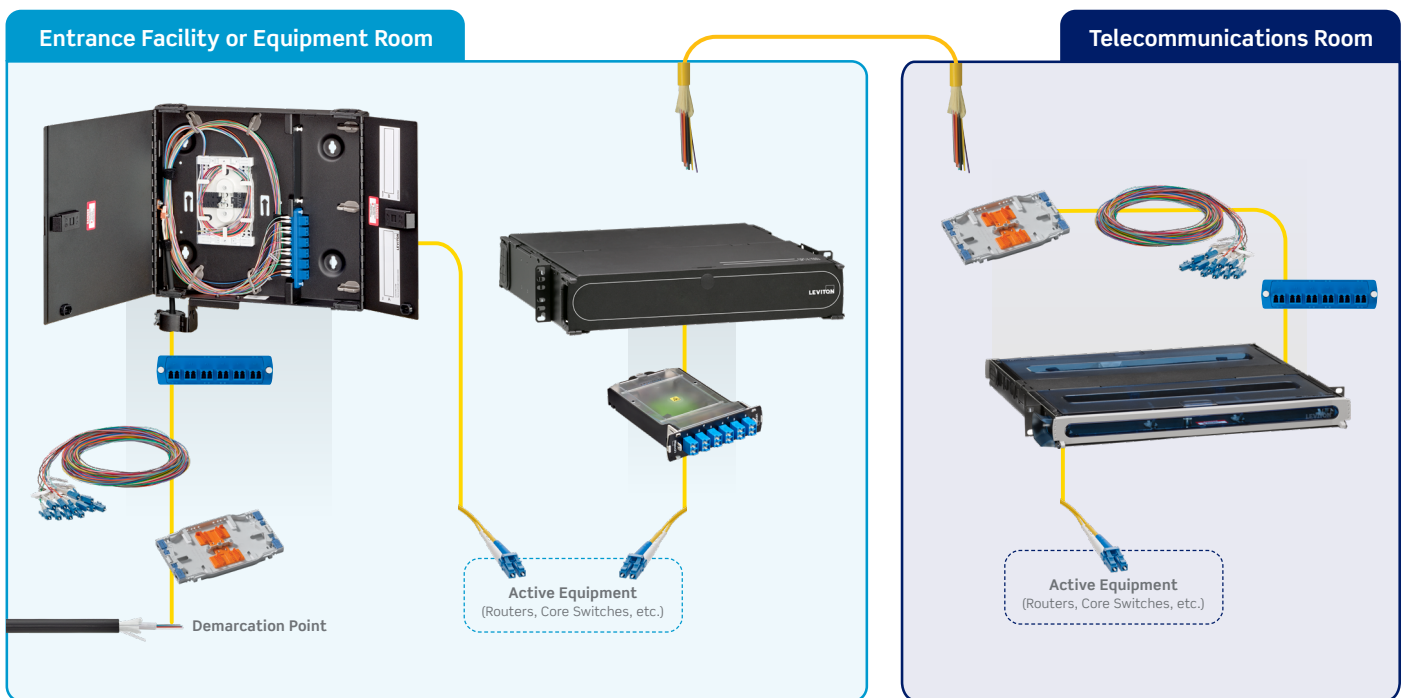
The **OPT-X SDX platform** allows for easy field termination of connectors and splicing in a standard-density footprint. SDX splice modules and adapter plates offer flexible connections and storage options to meet any project need.

Premises solutions include bulk cable and field terminated connectivity that deliver reliable, standard loss performance for campuses and enterprise networks. They are designed for installation with the OPT-X SDX platform.


Use Cases

| Efficient Field Termination | Smaller Connection Channels | Versatile for Range of Locations | Standard Density and Lower Fiber Count Networks |
|--|---|--|---|
| Typically deployed with Leviton’s loose tube or tight buffered bulk cable, the SDX Premises system offers a variety of field termination options including splice trays, splice modules, pigtailed, and mechanical fiber connectors. | With standard performance connectivity, the Premises system offers the best value for point-to-point or single-patch field architectures. | Front-loading rack-mount and wall-mount enclosures and panels come in a range of sizes, with enhanced labeling options to simplify MAC work. | Ideal for typical enterprise backbones with 6 fiber to 24 fiber connections, the standard density SDX (max 72 fibers per RU) leaves ample room for regular maintenance or MACs. |

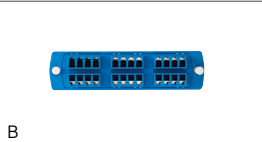
Example Network



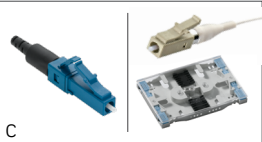
Example Channel Reach Performance with Mechanical Field Termination




A
Patch Cords



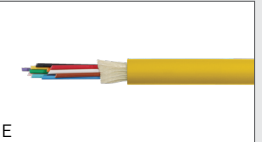
B
OPT-X SDX Adapter Plates



C
FASTCAM™ Connectors or Splice Tray and Fiber Pigtails



D
OPT-X SDX Enclosure




E
Premises Distribution or Loose Tube Cable

| OM4 | 10G SR | | 25G SR | | 40G BiDi | |
|------------------------|--|---|--------|---|----------|---|
| # of Connection Points | 2 | 4 | 2 | 4 | 2 | 4 |
| Reach (m) | For expected optical reach data, contact your local sales person. Leviton.com/ns/global-locations | | | | | |


| OS2 | 10G LR | | 40G LR | | 100G CWDM4 | |
|------------------------|--|---|--------|---|------------|---|
| # of Connection Points | 2 | 4 | 2 | 4 | 2 | 4 |
| Reach (m) | For expected optical reach data, contact your local sales person. Leviton.com/ns/global-locations | | | | | |

Note: Leviton can calculate reach for virtually any transceiver type. Contact 800-722-2082 for additional support or visit Leviton.com/ns/global-locations


Example Channel Reach Performance with Splice Modules



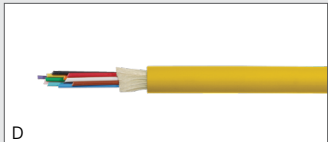
A
Patch Cords



B
OPT-X SDX Splice Modules



C
OPT-X SDX Enclosure



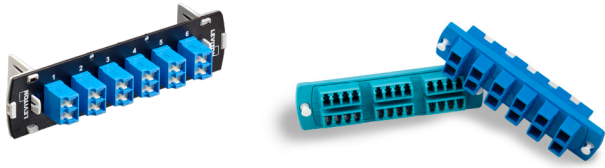
D
Premises Distribution or Loose Tube Cable

| OM4 | 10G SR | | 25G SR | | 40G BiDi | |
|------------------------|--|---|--------|---|----------|---|
| # of Connection Points | 2 | 4 | 2 | 4 | 2 | 4 |
| Reach (m) | For expected optical reach data, contact your local sales person. Leviton.com/ns/global-locations | | | | | |

| OS2 | 10G LR | | 40G LR | | 100G CWDM4 | |
|------------------------|--|---|--------|---|------------|---|
| # of Connection Points | 2 | 4 | 2 | 4 | 2 | 4 |
| Reach (m) | For expected optical reach data, contact your local sales person. Leviton.com/ns/global-locations | | | | | |

Leviton can calculate reach for virtually any transceiver type. Contact 800-722-2082 for additional support or visit Leviton.com/ns/global-locations.

The engineered link values listed in the tables are outputs from Leviton's Optical Link Verification Tool. To obtain these expected reach distances, the products must be properly installed by a Leviton Certified Installer. Additionally, the active equipment at both ends of the link must be properly installed and in good working condition, and meet appropriate IEEE 802.3 standards for the specific application. Leviton stands behind its system warranties, located at <https://leviton.com/ns/warranties>. As a variety of applications and connection points are possible, contact 800-722-2082 or apeng@leviton.com for specific design consultation and Link Performance verification.



Adapter Plates

OPT-X SDX Fiber Adapter Plates

- Available in LC, SC, ST, and blank styles
- Works with all SDX rack-mount and wall-mount enclosures
- Zirconia ceramic sleeves for optimal performance in 1 Gb/s or higher transmission speeds
- Shuttered LC option uses IP5x-rated internal shutters, eliminating the need for dust plugs to reduce waste and speeding up deployment
- Molded option made of durable polycarbonate material with integrated couplers

| OPT-X SDX Shuttered LC Adapter Plates | Part No. |
|--|-----------|
| Plate, OM1 (beige), Duplex Shuttered LC, 12-fiber | 5F100-S2I |
| Plate, OM3 & OM4 (blue), Duplex Shuttered LC, 12-fiber | 5F100-S2Q |
| Plate, OM4 (heather violet), Duplex Shuttered LC, 12-fiber | 5F100-S2M |
| Plate, OS2 (blue), Duplex Shuttered LC, 12-fiber | 5F100-S2L |
| Plate, OS2 (green), Duplex Shuttered LC/APC, 12-fiber | 5F100-S2V |
| Plate, OM1 (beige), Quad Shuttered LC, 24-fiber | 5F100-S4I |
| Plate, OM3 & OM4 (blue), Quad Shuttered LC, 24-fiber | 5F100-S4Q |
| Plate, OM4 (heather violet), Quad Shuttered LC, 24-fiber | 5F100-S4M |
| Plate, OS2 (blue), Quad Shuttered LC, 24-fiber | 5F100-S4L |
| Plate, OS2 (green), Quad Shuttered LC/APC, 24-fiber | 5F100-S4V |

| OPT-X SDX Molded Adapter Plates | Part No. |
|--|---------------------------|
| Plate, OM3 & OM4 (aqua), Duplex LC, 12-fiber | 5F100-2QL |
| Plate, OS2 (blue), Duplex LC, 12-fiber | 5F100-2LL |
| Plate, OS2 (green), Duplex LC/APC, 12-fiber | 5F100-2VL |
| Plate, OM3 & OM4 (aqua), Quad LC, 24-fiber | 5F100-4QL |
| Plate, OS2 (blue), Quad LC, 24-fiber | 5F100-4LL |
| Plate, OS2 (green), Quad LC/APC, 24-fiber | 5F100-4VL |
| Plates, OM3 & OM4 (aqua), Duplex SC, 6-fiber | 5F100-6QC |
| Plates, OS2 (blue), Duplex SC, 6-fiber | 5F100-6LC |
| Plates, OS2 (green), Duplex SC/APC, 6-fiber | 5F100-6VC |
| Plate, OM3 & OM4 (aqua), Duplex SC, 12-fiber | 5F100-2QC |
| Plate, OS2 (blue), Duplex SC, 12-fiber | 5F100-2LC |
| Plate, OS2 (green), Duplex SC/APC, 12-fiber | 5F100-2VC |
| Plate (black), Blank | 5F100-PLT |



Enclosures

OPT-X SDX Fiber Enclosures

Allow for easy field termination of connectors, splicing, or pre-terminated cabling. Rack-mount enclosures are available in 1RU, 2RU, 3RU, and 4RU sizes, with basic features in 500i, enhanced features in 1000i, and feature-rich in 2000i. Wall-mount and zero-RU options increase system flexibility.

- Patch up to 72 LC fibers per RU (96 LC fibers per RU on specific 3RU enclosures)
- Optional sliding trays removes completely from enclosure for ease of field terminations and splicing
- Transparent front and rear doors on 2000i provides visibility of port ID labeling or cabling
- Various enclosure depth for enhanced backbone cable management
- Flush mount open design on 500i allows for easy access to patch cords
- Removable front and/or rear covers on rack mount enclosures for better access to interior of enclosure
- Constructed of robust 16-gauge steel, powder-coated black or white (on 2000i)
- Accessory kit consists of cable ties, mounting ear screws, port ID label, and spiral wrap (for cable protection on units with a sliding tray)

| Enclosures and Panels | Part No. |
|---|---------------------------|
| 2000i, 1RU Enclosure, white, with sliding tray, accepts 3 components | 5R1UH-W03 |
| 2000i, 2RU Enclosure, white, with sliding tray, accepts 6 components | 5R2UH-W06 |
| 2000i, 4RU Enclosure, white, with sliding tray, accepts 12 components | 5R4UH-W12 |
| 2000i, 1RU Enclosure, black, with sliding tray, accepts 3 components | 5R1UH-S03 |
| 2000i, 2RU Enclosure, black, with sliding tray, accepts 6 components | 5R2UH-S06 |
| 2000i, 4RU Enclosure, black, with sliding tray, accepts 12 components | 5R4UH-S12 |
| 1000i, 1RU Enclosure, Empty, accepts 3 components | 5R1UM-F03 |
| 1000i, 1RU Enclosure, Empty, with sliding tray, accepts 3 components | 5R1UM-S03 |
| 1000i, 2RU Enclosure, Empty, accepts 6 components | 5R2UM-F06 |
| 1000i, 2RU Enclosure, Empty, with sliding tray, accepts 6 components | 5R2UM-S06 |
| 1000i, 3RU Enclosure, Empty, accepts 9 components | 5R3UM-F09 |
| 1000i, 3RU Enclosure, Empty, accepts 12 components | 5R3UM-F12 |
| 1000i, 4RU Enclosure, Empty, accepts 12 components | 5R4UM-F12 |
| 1000i, 4RU Enclosure, Empty, accepts 15 components | 5R4UM-F15 |
| 500i, 1RU Enclosure, Empty, accepts 3 components | 5R1UL-F03 |
| 500i, 2RU Enclosure, Empty, accepts 6 components | 5R2UL-F06 |
| 500i, 3RU Enclosure, Empty, accepts 12 components | 5R3UL-F12 |
| Wall-Mount Enclosure, mini, accepts 1 component | 5WMNT-01C |
| Wall-Mount Enclosure, small, accepts 2 components | 5WSML-02C |
| Wall-Mount Enclosure, medium, accepts 4 components | 5WMED-04C |
| Wall-Mount Enclosure, large, accepts 12 components | 5WLRG-12C |



Cable

Tight Buffered

Premises Distribution Cable is a tight-buffered fiber optic cable designed for installation in plenum, riser, and LSZH environments for horizontal connections and interbuilding backbones.

- 900 µm buffers allows for easy handling during termination and eliminates the need for fanout kits
- Plenum cables available with ARMOR-TEK™ interlock armor for additional physical protection
- Flexible and small diameter

| Tight Buffered Cable | Part No. | Typical Region |
|---|--|----------------------------------|
| Plenum | | |
| Tight Buffered, 50 µm-OM3, Indoor/Outdoor, aqua jacket | PDP0xxEB3010/25-I/O-C4(AQU) | United States |
| Tight Buffered, Single-Mode, Indoor/Outdoor, yellow jacket | PDP0xxAB0707-I/O-C4(YEL) | |
| Tight Buffered, 50 µm-OM4, Indoor/Outdoor, aqua jacket | PDP0xxFB3010/F5-I/O-C4(AQU) | |
| Tight Buffered, Interlock Armored, 50 µm-OM3, Indoor/Outdoor, aqua jacket | PDPK0xxEB3010/25-I/O-C4C5(AQU) | |
| Tight Buffered, Interlock Armored, OS2, Indoor/Outdoor, yellow jacket | PDPK0xxAB0707-I/O-C4C5(YEL) | |
| Tight Buffered, Interlock Armored, 50 µm-OM4, Indoor/Outdoor, aqua jacket | PDPK0xxFB3010/F5-I/O-C4C5(AQU) | |
| Tight Buffered, 50 µm-OM3, Indoor/Outdoor, aqua jacket | DOM3P-xx1 | Canada |
| Tight Buffered, Single-Mode, Indoor/Outdoor, yellow jacket | D008P-xx1 | |
| Tight Buffered, 50 µm-OM4, Indoor/Outdoor, aqua jacket | DOM4P-xx1 | |
| Tight Buffered, Interlock Armored, 50 µm-OM3, Indoor/Outdoor, aqua jacket | DAM3P-xx1 | |
| Tight Buffered, Interlock Armored, Single-Mode, Indoor/Outdoor, yellow jacket | DA08P-xx1 | |
| Tight Buffered, Interlock Armored, 50 µm-OM4, Indoor/Outdoor, aqua jacket | DAM4P-xx1 | |
| CPR-Rated, LSZH (B2ca) | | |
| Tight Buffered, 50 µm-OM3, Indoor, black jacket | GFOM3PDCxxLU-B2ca | Europe, Middle East, LATAM, APAC |
| Tight Buffered, 50 µm-OM4, Indoor, black jacket | GFOM4PDCxxLU-B2ca | |
| Tight Buffered, OS2, Indoor, black jacket | GF008PDCxxLU-B2ca | |

xx = Fiber Count (06, 12, 24)



Cable

Loose Tube

Revolutionary Outdoor/Indoor ADVENTUM™ cables are designed to be used in plenum and Euroclass environments. This fire-rated cable is designed to withstand the rigors of the outside plant environment.

- Flame rating enables installation to go directly from outside plant to riser shaft or through horizontal spaces
- Cable core and buffer tubes use dry waterblocking technology with no gel filler
- All dielectric design
- Plenum cables available with ARMOR-TEK interlock armor for additional physical protection

| Loose Tube Cable | Part No. | Typical Region |
|--|--------------------------------------|----------------------------------|
| Plenum | | |
| ADVENTUM Loose Tube, 50 µm-OM3, Indoor/Outdoor, aqua jacket | LTP12B0xxEB3010/25 | United States, Canada |
| ADVENTUM Loose Tube, 50 µm-OM4, Indoor/Outdoor, aqua jacket | LTP12B0xxFB3010/25 | |
| ADVENTUM Loose Tube, OS2, Indoor/Outdoor, yellow jacket | LTP12B0xxAB0403 | |
| CPR-Rated, LSZH (B2ca) | | |
| ADVENTUM Loose Tube, 50 µm-OM3, Indoor/Outdoor, black jacket | GFOM3ADTxxWRRLU-B2ca | Europe, Middle East, LATAM, APAC |
| ADVENTUM Loose Tube, 50 µm-OM4, Indoor/Outdoor, black jacket | GFOM4ADTxxWRRLU-B2ca | |
| ADVENTUM Loose Tube, OS2, Indoor/Outdoor, black jacket | GF108ADTxxWRRLU-B2ca | |

xx = Fiber Count (48, 72, 96)



Splice Modules

OPT-X SDX Splice Modules

OPT-X SDX LC, SC, and MPO Molded Splice Modules protect and organize heat-shrink fusion spliced fibers (up to 12, 24, or 72 fibers) for installation in an SDX fiber enclosure or panel. The modular design enables faster field splicing and simple management of pigtails within the housing. Splice modules eliminate the need for individual splice trays within a fiber enclosure and provide optimal organization and slack management of fibers. Typical applications include Wide Area Networks (WAN), campus environments, high-count riser buildings, government installations, data centers, and central offices.

- Module integrates fiber adapter bulkhead (12 or 24 fibers) and splice holders, eliminating the need of splice trays
- Offered in single-mode (OS2) UPC and APC and laser-optimized multimode OM3 and OM4 fiber types
- Integrated latching tabs allow for one-handed insertion and removal from SDX enclosures and panels
- Patented internal shutters on LC adapters eliminate the need for dust plugs to reduce waste, speed up deployment, and ensure safer installations
- 12-fiber, color-coded, 900 µm tight-buffer pigtails are 1 m and pre-loaded in module per specific configuration and include splice sleeves
- Modular design allows for ease of maintenance of individual spliced fiber and allows for scaling up without impacting existing fibers
- Patented MPO pigtail assembly allows for easy routing within module and no-preparation mass fusion splicing

| Splice Modules | Part No. |
|---|-----------|
| 12-Fiber, OM3 (aqua), Duplex LC Shuttered | SPLCS-2AL |
| 12-Fiber, OM4 (heather violet), Duplex LC Shuttered | SPLCS-2ML |
| 12-Fiber, OM4 (aqua), Duplex LC Shuttered | SPLCS-2QL |
| 12-Fiber, OS2 (blue), Duplex LC Shuttered | SPLCS-2LL |
| 12-Fiber, OS2 (green), Duplex LC/APC Shuttered | SPLCS-2VL |
| 24-fiber, OM3 (aqua), Quad LC Shuttered | SPLCS-4AL |
| 24-fiber, OM4 (heather violet), Quad LC Shuttered | SPLCS-4ML |
| 24-fiber, OM4 (aqua), Quad LC Shuttered | SPLCS-4QL |
| 24-fiber, OS2 (blue), Quad LC Shuttered | SPLCS-4LL |
| 24-fiber, OS2 (green), Quad LC/APC Shuttered | SPLCS-4VL |
| 12-Fiber, OM4 (aqua), Duplex SC | SPSCS-2QC |
| 12-Fiber, OS2 (blue), Duplex SC | SPSCS-2LC |
| 12-Fiber, OS2 (green), Duplex SC/APC | SPSCS-2VC |
| 72-Fiber, OM4, Simplex MPO (male) | SPMPS-MMP |
| 72-Fiber, OS2, Simplex MPO (male) | SPMPS-SMP |



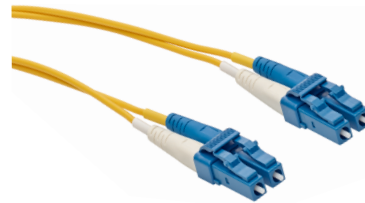
Connectors

FASTCAM™ Fiber Connectors

Leviton's FASTCAM pre-polished connectors provide precision mechanical termination of single-mode or multimode fiber.

- Terminated on 250 µm or 900 µm buffered fiber and/or 2 or 3 mm jacketed fiber
- Require no polishing or epoxy curing
- Use precision zirconia ferrules

| Fiber Connectors | Part No. |
|---|---------------------------|
| FASTCAM LC OM3/4, aqua | 49991-LLC |
| FASTCAM LC OS2, blue | 49991-SLC |
| FASTCAM SC OM3/4, aqua | 49991-LSC |
| FASTCAM SC OS2, blue | 49991-SSC |
| FASTCAM SC/APC OS2, green | 49991-ASC |
| FASTCAM LC Duplex Clip (pack of 6), Clear | 49991-CLP |



Patch Cords

Fiber Patch Cords

Leviton Fiber Optic Patch Cords are designed to interconnect or cross connect fiber networks.

- All connectors have precision pre-radiused zirconia ferrules
- Standard polarity is A-B

| Fiber Patch Cords | Riser Part No. | LSZH Part No. |
|-------------------------|---------------------------|----------------------------------|
| OM3, LC-LC, 2 m | 5LDLC-M02 | VPC-M3D1LCLC0020 |
| OM3, LC-LC, 3 m | 5LDLC-M03 | VPC-M3D1LCLC0030 |
| OM4, LC-LC, 2 m | 54DLC-M02 | VPC-M4D1LCLC0020 |
| OM4, LC-LC, 3 m | 54DLC-M03 | VPC-M4D1LCLC0030 |
| OS2, LC-LC, 2 m | UPDLC-S02 | VPC-S2D1LCLC0020 |
| OS2, LC-LC, 3 m | UPDLC-S03 | VPC-S2D1LCLC0030 |
| OM3, SC-SC, 2 m | 5LDSC-M02 | VPC-M3D1SCSC0020 |
| OM3, SC-SC, 3 m | 5LDSC-M03 | VPC-M3D1SCSC0030 |
| OM4, SC-SC, 2 m | 54DSC-M02 | VPC-M4D1SCSC0020 |
| OM4, SC-SC, 3 m | 54DSC-M03 | VPC-M4D1SCSC0030 |
| OS2, SC-SC, 2 m | UPDSC-S02 | VPC-S2D1SCSC0020 |
| OS2, SC-SC, 3 m | UPDSC-S03 | VPC-S2D1SCSC0030 |
| OS2, SC/APC-SC/APC, 2 m | APSSC-S02 | VPC-S2D1ACAC0020 |
| OS2, SC/APC-SC/APC, 3 m | APSSC-S03 | VPC-S2D1ACAC0030 |

Note: Additional lengths available



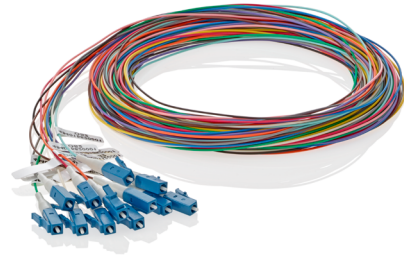
Fiber Splice Trays

12- & 24-Fiber Injection-Molded Splice Trays

Provide protection and slack management of heat-shrink fusion spliced fibers (up to 12 or 24 fibers) inside of a fiber enclosure. They feature a clear cover for viewing and inspection of tray contents.

- Four ratchet action clamps with foam rubber padding to minimize crush of loose tube or tight buffer fiber
- Accepts up to 12 or 24 heat-shrink style fusion spliced fibers
- Splice sleeves included
- Accommodates standard heat shrink sleeves in 40 or 60 mm lengths

| Fiber Splice Trays | Part No. |
|-----------------------------------|---------------------------|
| 12-Fiber Splice Tray | T5PLS-12F |
| 24-Fiber Splice Tray | T5PLS-24F |
| Splice Tray Mounting Hardware Kit | SPLMT-HKT |



Fiber Pigtails

Support fusion splicing for fiber cabling systems. Available in kits for ease of installation and ordering.

- All assemblies are 100% optically tested
- All pigtails are serialized for traceability
- Pigtails follow TIA color sequence to easily match color-coded (900 µm or 250 µm) fiber cable that will be spliced

| Popular 12-Fiber Kit Configurations | Riser Part No. | LSZH Part No. |
|-------------------------------------|---------------------------|----------------------------------|
| OM3, SC, 3 m | 5LPSC-KIT | VPK-M3TSC1200-03 |
| OM3, LC, 3 m | 5LPLC-KIT | VPK-M3TLC1200-03 |
| OM4, LC, 3 m | 54PLC-KIT | VPK-M4TLC1200-03 |
| OS2, SC UPC, 3 m | UPPSC-KIT | VPK-S2TSC1200-03 |
| OS2, LC UPC, 3 m | UPPLC-KIT | VPK-S2TLC1200-03 |

Released May 2024 E24 8863-GL ENv3

USA
 Network Solutions Headquarters
 +1 (800) 722 2082
infoUSA@leviton.com
 Leviton Cable (formerly Berk-Tek)
 +1 (800) 237 5835 | infoUSA@leviton.com

Asia Pacific
 +852 3620 2602
infoAPAC@leviton.com

Canada
 +1 (800) 461 2002
infoCanada@leviton.com

Europe
 +44 (0) 1592 772124
infoEurope@leviton.com

Latin America
 MX: +52 (55) 2128 6286
 LATAM: +52 (55) 2333 5963
infoLATAM@leviton.com

Middle East & Africa
 +971 (4) 247 9800
infoMEA@leviton.com

NETWORK SOLUTIONS PRODUCTS ARE AVAILABLE WORLDWIDE IN OVER 100 COUNTRIES. VISIT US ONLINE AT LEVITON.COM/NS TO LEARN MORE.