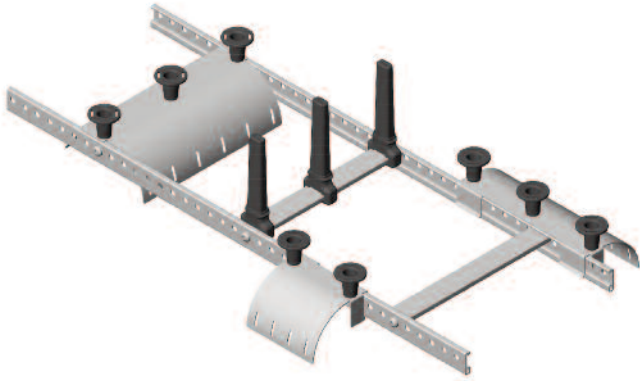


Frequently Asked Questions

ADJUSTABLE CABLE RUNWAY



Q. What is the purpose of an “adjustable” runway?

A. An adjustable runway solution allows technicians and installers to reposition features of the runway such as cross members and accessories for better alignment and to preserve bend radii. The adjustable design simplifies the deployment of cabling above racks, cabinets and cable managers.

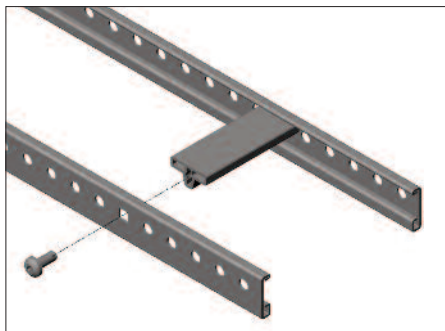
Q. What makes the runway adjustable?

A. The Adjustable Cable Runway features bolted construction with moveable Cross Members for ultimate cable pathway customization. This differs from other CPI Runway, which feature Cross Members that are permanently attached (welded) to the runway.

When shipped assembled, the Cross Members are fastened to the Stringers at 12” (305 mm) intervals through square-punched holes. Cross Members are fastened to Stringers by (2) M8 x 20, Taptite thread-forming hexalobular (TORX) screws. The Stringers themselves feature pre-punched round holes spaced at 1” (25 mm) intervals, which allow Cross Members to be moved as required for better alignment with cable entry/exit points.



M8 x 20, Taptite thread-forming hexalobular (TORX) screws



Q. What is included with Adjustable Cable Runway?

A. Each Adjustable Cable Runway product includes two 119.5”L (3035 mm) steel Stringers/sticks attached to 10 aluminum Cross Members spaced at 12” (305 mm) intervals. In addition, customers also have the option to purchase additional Adjustable Cable Runway Cross Members and Adjustable Cable Runway Stringers separately. Cross Members ship in kits of 10 and 50, and Stringers ship in kits of 10.

Q. How are Cross Members adjusted?

A. To move Cross Members, use a T40 (TORX) hexalobular driver to loosen and remove the hardware. After that, the Cross Members will slide freely but securely down the runway (between the Stringers). Note that for ease of placement, it may be necessary to loosen the screws on adjacent Cross Members. Once placed, Cross Members may then be reattached with hardware. It is also important to note that Cross Members may be moved a maximum of 4” (101 mm) from their original position in order to maintain an appropriate load rating.

Q. How does the load rating on the Adjustable Cable Runway compare with other CPI Cable Runway?

A. Load ratings for the Adjustable Cable Runway are identical to the Universal Cable Runway. When supported every 5’ (1.5 m), the runway will hold 132 lb/ft (196 kg/m). For more information about load ratings, see the table below.

Safety Factor	Span (ft)	4	5	6	7	8	9
1.5	Maximum Load (lb/ft)	206	132	92	67	52	41
	Deflection (in)	0.41	0.64	0.92	1.25	1.62	2.03
2.0	Maximum Load (lb/ft)	154	99	69	50	39	31
	Deflection (in)	0.31	0.48	0.68	0.93	1.21	1.53
	K Factor	0.002	0.005	0.010	0.019	0.032	0.050

To calculate deflection for loads lighter than maximum loads listed in table, multiply load for which deflection is desired by K factor listed in table for cable runway support span utilized.

Example: To calculate maximum deflection using a safety factor of 1.5 for a length of cable runway supported every 5 feet and loaded with 80 pounds per foot:

$$\text{Deflection} = (80)(0.005) = 0.40 \text{ in.}$$

Frequently Asked Questions

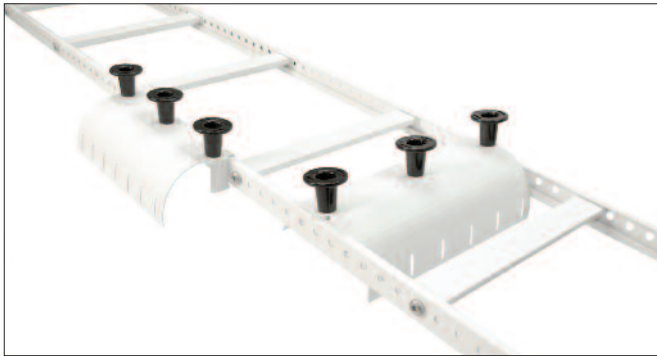
ADJUSTABLE CABLE RUNWAY

Q. Does the Adjustable Cable Runway need to be grounded and bonded?

Yes, any metal pathway such as CPI's Adjustable Cable Runway, must be bonded together for grounding purposes. Generally, individual pathway components are bonded across each splice, and the pathway is then bonded to the Telecommunications Grounding Busbar. Grounding and Bonding features of the Adjustable Cable Runway include the use of grounding thread-forming screws at the end of each Cross Member. The threads of the screws and ring on the underside of the head cut through paint to form an electric bond between Cross Members and Stringers. Use the Grounding Splice Kit to bond runway sections across each splice.

Q. Is the Adjustable Cable Runway compatible with other CPI Cable Runway?

A. Yes, the Adjustable Cable Runway is compatible with many other CPI Runway products including the Universal (10250), TELCO (11252) and UL Classified (11275) product lines.



Q. What CPI Cable Runway Accessories are compatible with the Adjustable Cable Runway?

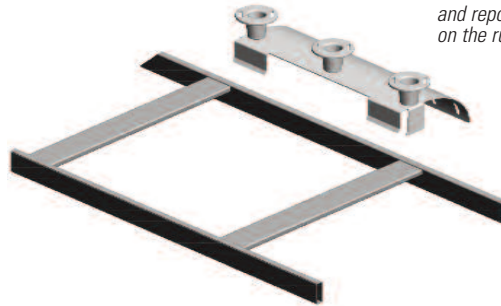
The Adjustable Cable Runway may be combined with many other CPI Cable Runway Accessories to form a cable pathway solution that easily adapts in many facilities and environments. Adjustable Cable Runway uses the same splice kits and supports as Universal, Telco and UL Classified Runway.

In addition, several accessories were developed with the Adjustable Cable Runway in mind. They include the Tool-less Pathway Divider, Tool-less Cross Member Radius Drop and Tool-less Stringer Radius Drop. Like other CPI Cable Runway products, each of these durable accessories is designed to facilitate cable pathway organization and

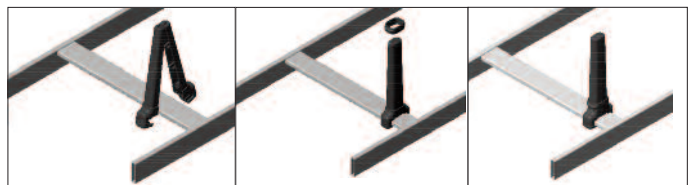
support. Adjustable Cable Runway Accessories may also be removed and repositioned anywhere on the runway—before, during or after installation.

CPI's Tool-less Radius Drops support cables as they enter and exit the runway. Cross Member Radius Drops attach between Stringers and may be positioned directly over or between Cross Members to support cables as they enter or exit along the runway. CPI's Tool-less Stringer Radius Drops attach to a single Stringer and support cables as they enter or exit at the side of the runway.

Accessories may be removed and repositioned anywhere on the runway.



In addition, Tool-less Pathway Dividers serve to create multiple pathways, which organize cables by media type and destination and click into place on the Cable Runway Cross Members. Pathway Dividers feature CPI's Click Secure Technology and attaches to the product clicking into the locked position, assuring technicians that the accessory is securely fastened.



Adjustable Cable Runway accessories are compatible for use with the Universal (10250), TELCO (11252) and UL Classified (11275) Cable Runway. The Tool-less Cross Member Radius Drop width must match the Runway width.

See the Adjustable Cable Runway data sheet for a full listing of available runway accessories. The CPI product catalog, as well as CPI Solutions page are also excellent sources for determining appropriate accessories for all CPI products.

Frequently Asked Questions

ADJUSTABLE CABLE RUNWAY

Q. What cable runway components, accessories and supports are compatible with the Adjustable Cable Runway?

A. The following products are all compatible with the Adjustable Cable Runway. Please refer to the CPI website for details:

www.chatsworth.com/products/cable-pathway

- Patch Rack, P/N 13395-XXX

Attaches to CPI Cable Runway to save rack-mount space by placing patch panels or interconnect equipment above the rack or cabinet.

Splice Kits

- Butt-Splice Kit, P/N 11301-XXX

Compression splice for end-to-end connections.

- Junction-Splice Kit, P/N 11302-XXX

Compression splice for T- or L-connections.

- Heavy-Duty Butt-Splice Kit, P/N 11299-XXX

Bolted splice for end-to-end connections.

- Heavy-Duty Junction-Splice Kit, P/N 11298-XXX

Bolted splice for T- or L- connections.

- Adjustable Junction Splice Kit, P/N 10616-XXX

Compression splice for angled (non-90°) intersection connections.

- 90° Runway-Splice Kit, P/N 11314-XXX

Compression splice for horizontal-to-vertical connections.

- 45° Runway-Splice Kit, P/N 11313-XXX

Compression splice for horizontal-to-vertical connections.

- Butt Swivel Splice Kit, P/N 10487-XXX

Compression splice for angled end-to-end connection (ramp up/down).

- Junction Swivel Splice, P/N 10488-XXX

Compression splice for angled T- or L- connection (ramp up/down).

- Vertical Swivel Splice Kit, P/N 10489-XXX

Compression splice for angled vertical connection (ramp up/down).

Supports and Bracing

- Cable Runway Elevation Kit, P/N 10506-XXX

L-shaped supports that elevate cable runway above the rack.

- Triangular Support Bracket, Aluminum, P/N 11312-XXX

Wall support for side of Cable Runway.

- Triangular Support Bracket, Steel, P/N 11312-XXX

Wall support for side of Cable Runway.

- Wall Angle Support Kit, Cable Runway, P/N 11421-XXX

Wall support for end of Cable Runway.

- Cable Runway Standoff Support Kit Part Number, P/N 31470-XXX

Supports a second tier of Cable Runway 12" (300 mm) above the first tier of Cable Runway.

- Tall Pipe Stand (Related Accessory), P/N 10684-XXX

Includes 1/2" concrete floor installation hardware. Use with cable runway center support kit and 5/8-11 threaded rod.

- Threaded Ceiling Kit (Related Accessory), P/N 11310-XXX

Ceiling support for side of Cable Runway.

- Cable Retaining Post (Related Accessory), P/N 10596-XXX

Used to keep cable from falling off of the side of the ladder rack.

- Wall Angle, Cable Runway, P/N 11420-XXX

Used as a wall support or as part of earthquake bracing.

- J-Bolt Kit, Cable Runway, P/N 11305-XXX

Used to attach a 2" x 1" auxiliary framing channel to a 1-1/2" equipment rack top bar.

- Foot Kit, Cable Runway, P/N 11309-XXX

Attaches and secures Cable Runway to a wall or floor.

- Adjustable Floor Support Channel, Cable Runway, P/N 11241-XXX

Floor support for the bottom of Cable Runway.

- Runway Support Brackets, P/N 11408-XXX

Secures threaded rod to Cable Runway.

- Ceiling Support Bracket, P/N 11406-XXX

Secures threaded rod to Cable Runway.

- Slotted Support Bracket, P/N 10607-XXX

Secures threaded rod to Cable Runway.

- Vertical Wall Brackets, P/N 10608-XXX

Used to secure Cable Runway with 1-1/2" x 3/8" (38 mm x 9.53 mm) stringers to a wall.

- Cable Runway Center Support Kit, P/N 12362-XXX

Single point of attachment to the cable runway stringer.

Bends

- Cable Runway Radius Bends, P/N 11959-XXX

Creates a smooth 90° turn within the L-shaped corner made by two intersecting ladder racks.

- Cable Runway E-Bend, P/N 10822-XXX

Provides a 90-degree gradual sweep in horizontal plane.

Mounting and Framing

- 3" (76.2 mm) Channel Rack-To-Runway Mounting Plate,

P/N 12408-XXX; Attaches cable runway to the top of two-post freestanding racks in parallel or perpendicular orientation.

- 3" (76.2 mm) Channel Rack-To-Runway Mounting Plate

with Bracket, P/N 12730-XXX

Attaches cable runway to the top of two-post freestanding racks in parallel or perpendicular orientation.



Frequently Asked Questions

ADJUSTABLE CABLE RUNWAY

- 6" (150 mm) Channel Rack-to-Runway Mounting Plate, P/N 12409-XXX
Rack-To-Runway Attaches cable runway to the top of two-post freestanding racks in parallel or perpendicular orientation.
- 6" (150 mm) Channel Rack-to-Runway Mounting Plate with Bracket, P/N 12731-XXX
Attaches Cable Runway to the top of two-post freestanding racks in parallel or perpendicular orientation.
- J-Bolt Kit, Auxiliary Framing Channel/Runway, P/N 10635-XXX
To attach 1-1/2" Cable Runway to a 1" x 2" auxiliary framing channel without drilling.
- Clip J-Bolt, Auxiliary Framing Channel/Runway, P/N 10620-XXX
Used to attach Cable Runway to auxiliary framing.
- Spanner Kit, Auxiliary Framing Channel/Runway, P/N 10702-XXX
Used to attach Cable Runway to auxiliary framing.
- J-Bolt (Hook Bolt), Round Bend, Auxiliary Framing Channel/Cable Runway or Bars, P/N 11431-XXX
Used to bolt Cable Runway auxiliary framing channels and/or bars together.
- Mounting Kit, Auxiliary Framing Channel/Runway, P/N 10709-XXX
For fastening Cable Runway to auxiliary framework.

Grounding and Bonding, Safety

- Cable Runway Insulator Bar Kit, P/N 10842-XXX
Provides a means of electrically isolating individual ladder rack sections through an end-to-end splice separated with a non-conductive material.
- End Closing Kit, P/N 11700-XXX
Used to close an unspliced end of Cable Runway.
- Protective End Caps, P/N 10642-XXX
Covers and protects exposed ends of Cable Runway and auxiliary framing bar and channel. Reduces chances of personal injury and equipment damage.
- L-Bracket, Cable Runway, P/N 11268-XXX
Provides a separate facility for running power conductors or other cables that should be physically separated from main cables.
- Touch-Up Paint (Spray Can), P/N 25400-XXX
Used on ladder rack and ladder rack system components will be color-matched to the finish on the ladder rack or component.
- Touch-Up Paint (Bottle), P/N 25401-XXX
Used on ladder rack and ladder rack system components will be color-matched to the finish on the ladder rack or component.

Q. Is the size of the Adjustable Cable Runway different than other runway products?

A. No. The size and profile of the Adjustable Cable Runway are the same as those of the Universal Runway. The Stringers of the runway are 119.5"L (3035 mm) and allow the Adjustable Runway to be installed alongside other runway styles. The Adjustable Cable Runway is available in a variety of sizes including: 4" (102 mm), 6" (152 mm), 9" (229 mm), 12" (305 mm), 15" (381 mm), 18" (457 mm), 24" (610 mm), 30" (762 mm) and 36" (914 mm).

Q. How does the Adjustable Cable Runway ship?

A. The Adjustable Cable Runway ships assembled or unassembled and is individually packaged to simplify shipping. Each box of runway is labeled with the part number and product description, indicating color and width. Packaging allows for runway to be stacked in two or three columns for simple movement around facilities, and it is fully stretch-wrapped and banded to a pallet to eliminate movement during shipping.

Chatsworth Products (CPI) info:

Contact CPI Technical Support for assistance: 800-834-4969 or techsupport@chatsworth.com. The Technical Support Team assists customers and partners in solving IT

infrastructure problems in a timely and accurate manner by understanding their requirements and creating practical and suitable CPI solutions.

Q. Is the size of the Adjustable Cable Runway different than other runway products?

A. No. The size and profile of the Adjustable Cable Runway are the same as those of the Universal Runway. The Stringers of the runway are 119.5"L (3035 mm) and allow the Adjustable Runway to be installed alongside other runway styles. The Adjustable Cable Runway is available in a variety of sizes including: 4" (102 mm), 6" (152 mm), 9" (229 mm), 12" (305 mm), 15" (381 mm), 18" (457 mm), 24" (610 mm), 30" (762 mm) and 36" (914 mm).