# EVOLUTION™ CABLE MANAGEMENT

## KEY FEATURES

- Evolution™ Cable Managers have a distinctive look that matches the CPI TeraFrame™ Family of Cabinets for a single aesthetic in showplace data centers
- Organize cables by rack-mount unit; the improved T-shaped cable guide design decreases deflection when loaded with cables, especially important when deploying Cat 6a cabling
- Rounded edges on the cable guides and at the top of the cable manager protect cables as they enter or exit the storage space
- The door on the vertical manager opens to the right or left with a single knob; the horizontal manager has an easy to use snap-on cover
- The rigid vertical manager trough minimizes movement when installed on the end of a row of racks; solid construction with a full rectangular base supports large bundles of heavy cables
- Openings in the back of single-sided and middle of double-sided and combination vertical managers allow cables to pass easily front-to-rear
- Double-sided vertical managers have Movable Mid-Sections that allow for flexibility in the volume of cable management space provided in the front and rear portions of the cable manager
- Various cable management accessories are available to divide the interior space and manage cable slack
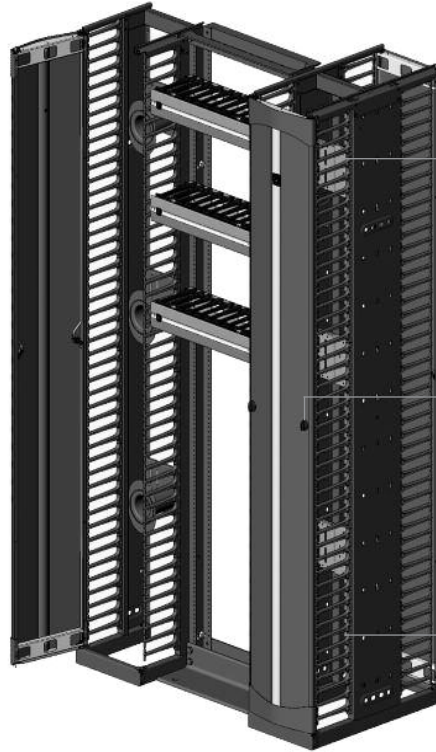
## APPLICATIONS

- Create vertical and horizontal pathways for storing and organizing premise cables, patch cords, equipment cords and jumper cords on CPI two-post and four-post open Rack Systems

## USE WITH

- Standard Rack
- Universal Rack
- QuadraRack™ 4-Post Frame
- QuadraRack™ Server Frame
- Adjustable QuadraRack™ (AQR)
- Adjustable ServerRack (ASR)
- Adjustable Rail QuadraRack™ (ARQR)
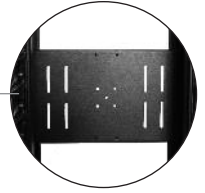- Adjustable Rail ServerRack (ARSR)

## RELATED ACCESSORIES

- Fiber Segregation Kit
- Cable Lashing Bar Kit
- Cable Distribution Spools
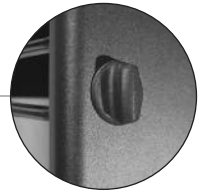- Movable Mid-Sections
- Saf-T-Grip® Reusable Straps



**Movable Mid-Section**

Move forward, backward, up or down to allocate interior cable management space and position accessories where needed

**Door Latch**

Includes doors with a single latch

**Cable Management Fingers**

T-shaped plastic cable guides organize cables by rack-mount unit

CPI Evolution™ Cable Management provides an engineered solution for managing high-density cabling applications on open two-post and four-post CPI Rack Systems, delivering increased performance to match the demands of data center applications. Featuring easy-to-use doors with styling that complements the CPI TeraFrame™ Family of Cabinets; Evolution™ Cable Management provides innovative interior features to help maximize the capacity and utility of vertical and horizontal cable management.

Use vertical managers on the sides of racks to manage premise cables, patch cords and jumper cords. Vertical managers include plastic T-shaped cable guides with openings that align with each rack-mount unit on the rack. Rounded edges on the cable guides and the top of the manager protect cables as they enter or exit the interior storage space. On double-sided managers, Movable Mid-Sections allow personalized placement of Cable Distribution Spools and other cable management accessories to effectively route patch cords. Use accessory Fiber Segregation Kits to create a dedicated internal channel for fiber cabling or accessory Cable Lashing Bar Kits to anchor premise cables closer to the mid-sections to increase capacity. The Movable Mid-Sections can also be positioned for a 50/50, 40/60 or 60/40 front/rear split of the internal cable management space to match cabling requirements. The door is secured by a spring-loaded two-point latch controlled by a single knob; simply turn the knob on the right or left side of the door and pull to swing the door open or turn both knobs to remove the door. The door attaches to the base and top of the cable manager, not the cable guides, and opens wider than previous designs for better access to cables. Vertical managers are available in single-sided, double-sided and combination configurations in five widths and three heights to match cabling requirements. Combination managers have cable management fingers in the front and cable rings in the back.

Use horizontal managers above and below patch panels and network switches to organize and store cables. Horizontal managers also include plastic T-shaped cable guides to organize patch cords and jumper cords as the cords enter and exit the manager to make individual equipment connections. The snap-on cover matches the door styling on the vertical manager. Swing the cover up or down to access cables; the cover stays in the open position while cabling. Horizontal managers are available in single-sided, 1U, 2U or 3U high configurations for 19 inch EIA-310-D compliant equipment Rack and Cabinet Systems.

Combine CPI Evolution Cable Management with two-post and four-post open Rack Systems to create a custom solution that fits your exact needs. See reverse for product details. Contact CPI Technical Support or visit the CPI Website (www.chatsworth.com) for configuration assistance.

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www.chatsworth.com

## SPECIFICATIONS

- Vertical and horizontal cable managers for open two-post and four-post Rack Systems
- For indoor use only, in environmentally controlled areas; may not be used outdoors, in harsh environments or in air-handling spaces
- Evolution™ g1 Single-Sided Vertical Manager includes:
  - Contoured front door with easy-open knobs and vertical center feature in contrasting aluminum finish
  - Rigid cable manager with 1U spaced plastic T-shaped cable guides (fingers)
  - Three Fixed Accessory Panels at the back of the cable manager
  - Three large Cable Distribution Spools and Cable Distribution Spool Spacers included with 10"W (250 mm), 12"W (300 mm) and 15"W (380 mm) managers
- Evolution™ g2 Double-Sided Vertical Manager includes:
  - Contoured front door with easy-open knobs and vertical center feature in contrasting aluminum finish
  - Rigid cable manager with 1U spaced plastic T-shaped cable guides (fingers)
  - Rear door with easy-open knobs and all black finish
  - Three Movable Mid-Sections
  - Three large Cable Distribution Spools and Cable Distribution Spool Spacers included with 10"W (250 mm), 12"W (300 mm) and 15"W (380 mm) managers
- Evolution™ g3 Combination Vertical Manager includes:
  - Contoured front door with easy-open knobs and vertical center feature in contrasting aluminum finish
  - Adjustable rear cable rings with spin-open latches on the back side (no rear door/cover)
  - Three large Cable Distribution Spools and Cable Distribution Spacers included with 10"W (250 mm), 12"W (300 mm) and 15"W (380 mm) managers
- Evolution™ Single-Sided Horizontal Manager includes:
  - Contoured front door with snap-hinges and longitudinal center feature in contrasting aluminum finish
  - Cable manager with plastic T-shaped cable guides (fingers)
  - Three 1.25"H x 2.12"W (31 mm x 53 mm) edge-protected oval cable pass-through ports at the rear of the 2U and 3U high cable manager
- Ships in a single carton
- Sizes: See ordering information at right
- Cable Fill: See cable fill table at www.chatsworth.com/cablefill
- Material: Steel and aluminum cable manager, plastic T-shaped cable guides
- Construction: Welded and riveted body and door
- Finish: Black epoxy-polyester hybrid powder coat paint

## ORDERING INFORMATION

| Evolution™ g1 Single-Sided Vertical Cable Managers | | |
|---|---|---|
| **Part Number** | **Description**<br>**H x W x D - in (mm)** | **Shipping Weight**<br>**lb (kg)** |
| 35511-701 | 72 x 6 x 13.2 (1828 x 150 x 335), Black | 51 (23.1) |
| 35511-703 | 84 x 6 x 13.2 (2133 x 150 x 335), Black | 57 (25.9) |
| 35511-715 | 96 x 6 x 13.2 (2438 x 150 x 335), Black | 65 (29.5) |
| 35512-701 | 72 x 8 x 13.2 (1828 x 200 x 335), Black | 54 (24.5) |
| 35512-703 | 84 x 8 x 13.2 (2133 x 200 x 335), Black | 61 (27.7) |
| 35512-715 | 96 x 8 x 13.2 (2438 x 200 x 335), Black | 70 (31.8) |
| 35513-701 | 72 x 10 x 13.2 (1828 x 250 x 335), Black | 60 (27.2) |
| 35513-703 | 84 x 10 x 13.2 (2133 x 250 x 335), Black | 67 (30.4) |
| 35513-715 | 96 x 10 x 13.2 (2438 x 250 x 335), Black | 76 (34.5) |
| 35514-701 | 72 x 12 x 13.2 (1828 x 300 x 335), Black | 65 (29.5) |
| 35514-703 | 84 x 12 x 13.2 (2133 x 300 x 335), Black | 73 (33.1) |
| 35514-715 | 96 x 12 x 13.2 (2438 x 300 x 335), Black | 82 (37.2) |
| 35515-701 | 72 x 15 x 13.2 (1828 x 380 x 335), Black | 74 (33.6) |
| 35515-703 | 84 x 15 x 13.2 (2133 x 380 x 335), Black | 83 (37.6) |
| 35515-715 | 96 x 15 x 13.2 (2438 x 380 x 335), Black | 90 (40.8) |
| **Evolution™ g2 Double-Sided Vertical Cable Managers** | | |
| 35521-701 | 72 x 6 x 24.5 (1828 x 150 x 662), Black | 83 (37.6) |
| 35521-703 | 84 x 6 x 24.5 (2133 x 150 x 662), Black | 94 (42.6) |
| 35521-715 | 96 x 6 x 24.5 (2438 x 150 x 662), Black | 107 (48.5) |
| 35522-701 | 72 x 8 x 24.5 (1828 x 200 x 662), Black | 90 (40.8) |
| 35522-703 | 84 x 8 x 24.5 (2133 x 200 x 662), Black | 101 (45.8) |
| 35522-715 | 96 x 8 x 24.5 (2438 x 200 x 662), Black | 116 (52.6) |
| 35523-701 | 72 x 10 x 24.5 (1828 x 250 x 662), Black | 98 (44.5) |
| 35523-703 | 84 x 10 x 24.5 (2133 x 250 x 662), Black | 110 (49.9) |
| 35523-715 | 96 x 10 x 24.5 (2438 x 250 x 662), Black | 125 (56.7) |
| 35524-701 | 72 x 12 x 24.5 (1828 x 300 x 662), Black | 105 (47.6) |
| 35524-703 | 84 x 12 x 24.5 (2133 x 300 x 662), Black | 118 (53.5) |
| 35524-715 | 96 x 12 x 24.5 (2438 x 300 x 662), Black | 134 (60.8) |
| 35525-701 | 72 x 15 x 24.5 (1828 x 380 x 662), Black | 115 (52.2) |
| 35525-703 | 84 x 15 x 24.5 (2133 x 380 x 662), Black | 129 (58.5) |
| 35525-715 | 96 x 15 x 24.5 (2438 x 380 x 662), Black | 147 (66.7) |
| **Evolution™ g3 Combination Vertical Cable Managers** | | |
| 35571-701 | 72 x 6 x 20.2 (1828 x 150 x 513), Black | 61 (27.7) |
| 35571-703 | 84 x 6 x 20.2 (2133 x 150 x 513), Black | 68 (30.8) |
| 35571-715 | 96 x 6 x 20.2 (2438 x 150 x 513), Black | 77 (34.9) |
| 35572-701 | 72 x 8 x 20.2 (1828 x 200 x 513), Black | 64 (29.0) |
| 35572-703 | 84 x 8 x 20.2 (2133 x 200 x 513), Black | 72 (32.7) |
| 35572-715 | 96 x 8 x 20.2 (2438 x 200 x 513), Black | 82 (37.2) |
| 35573-701 | 72 x 10 x 20.2 (1828 x 250 x 513), Black | 70 (31.8) |
| 35573-703 | 84 x 10 x 20.2 (2133 x 250 x 513), Black | 78 (35.4) |
| 35573-715 | 96 x 10 x 20.2 (2438 x 250 x 513), Black | 88 (39.9) |
| 35574-701 | 72 x 12 x 20.2 (1828 x 300 x 513), Black | 75 (34.0) |
| 35574-703 | 84 x 12 x 20.2 (2133 x 300 x 513), Black | 84 (38.1) |
| 35574-715 | 96 x 12 x 20.2 (2438 x 300 x 513), Black | 94 (42.6) |
| 35575-701 | 72 x 15 x 20.2 (1828 x 380 x 513), Black | 84 (38.1) |
| 35575-703 | 84 x 15 x 20.2 (2133 x 380 x 513), Black | 94 (42.6) |
| 35575-715 | 96 x 15 x 20.2 (2438 x 380 x 513), Black | 102 (46.3) |
| **Evolution™ Single-Sided Horizontal Cable Managers** | | |
| 35441-701 | 1U x 19" EIA x 8.2 (208), Black | 4 (1.8) |
| 35441-702 | 2U x 19" EIA x 8.2 (208), Black | 5 (2.3) |
| 35441-703 | 3U x 19" EIA x 8.2 (208), Black | 6 (2.7) |



Single-Sided          Double-Sided          Combination          Horizontal
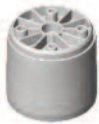
## ACCESSORIES

### Cable Distribution Spools

Cable Distribution Spools provide slack management and strain relief for patch cords and jumper cables inside Evolution™ Vertical Cable Managers.

- Three large cable distribution spools are included with each 10"W (250 mm), 12"W (300 mm) and 15"W (380 mm) vertical cable manager, (will not fit in other sizes)
- Attaches to the fixed adapter panels on the back of single-sided vertical cable managers and the Movable Mid-Sections inside double-sided vertical cable managers
- Spools are 2.75" (69.9 mm) in diameter and 5.9"L (150 mm) and made from black plastic
- Each kit includes four spools and mounting hardware

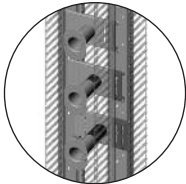| Part Number | Description | Shipping Weight lb (kg) |
|---|---|---|
| 15008-001 | Cable Distribution Spools, Black | 2 (0.9) |

### Cable Distribution Spool Spacer Kit

The Cable Distribution Spool Spacer Kit is used with the Cable Distribution Spool to offset the spool so that the front edge of the spool is close to the front edge of cable management fingers in the Evolution g2 Double-Sided Cable Managers.

- Use in 10"W (250 mm), 12"W (300 mm) and 15"W (380 mm) vertical cable managers; each manager includes three spools and three spacers
- Attaches to the Movable Mid-Sections inside double-sided Evolution g2 Vertical Cable Managers
- Use one Cable Distribution Spool Spacer with each Cable Distribution Spool when the Movable Mid-Sections in the cable manager are set for a 50/50 front/rear split
- Use two Cable Distribution Spool Spacers with each Cable Distribution Spool when the Movable Mid-Sections in the cable manager are set for a 60/40 front/rear split; stack both of the Cable Distribution Spool Spacers on the 60% side
- Spacers are 2.8" (71 mm) in diameter x 2.5"H (64 mm) and made from black ABS plastic
- Each kit includes eight spacers and mounting hardware

| Part Number | Description | Shipping Weight lb (kg) |
|---|---|---|
| 35505-001 | Cable Distribution Spool Spacer Kit | 1 (0.5) |

### Fiber Segregation Kit

Fiber Segregation Kit creates a separate pathway for fiber cables and patch cords inside Evolution Vertical Cable Managers.

- Use with any height Evolution Vertical Cable Manager
- Attaches to the inside single-sided vertical managers
- The number of kits allowed per manager depends on the width of the vertical cable manager and the position of the Movable Mid-Section in double-sided managers. See table below:

| Cable Manager Width in (mm) | Double-Sided with 60/40 Front/Rear Split | All Other Managers with 50/50 Front/Rear Split |
|---|---|---|
| 6 (150) | 1 | 0 |
| 8 (200) | 1 | 1 |
| 10 (250) | 2 | 1 |
| 12 (300) | 2 | 2 |
| 15 (380) | 2 | 2 |

- Each kit includes two 20.5"H (521 mm) J-shaped steel mounting brackets, eight plastic Fiber Segregation Spools and mounting hardware that create a separate pathway inside the vertical cable manager when assembled and installed
- The Fiber Segregation Spools turn 360° with stops at 90° allowing easy access to fiber cables
- The assembled bracket is 3.8"W x 4.3"D (97 mm x 109 mm) with a 2.4"W x 4.0"D (61 mm x 102 mm) interior space and includes mounting hardware

| Part Number | Description | Shipping Weight lb (kg) |
|---|---|---|
| 35475-701 | Fiber Segregation Kit | 6 (2.7) |

*Color is black.*

### Cable Lashing Bar Kit

Cable Lashing Bar Kit provides tie points for cables inside Evolution Vertical Cable Managers.

- Use with any height Evolution Vertical Cable Manager
- Attaches to the fixed adapter panel inside vertical cable managers
- Use up to six cable lashing bars (front/rear) in 6"W (150 mm) vertical cable managers and up to ten cable lashing bars (front/rear) in 8"W (200 mm), 10"W (250 mm), 12"W (300 mm) and 15"W (380 mm) vertical cable managers
- Each kit includes four round .23" (5.7 mm) diameter x 20.6"L (524 mm) steel lashing bars and mounting hardware

| Part Number | Description | Shipping Weight lb (kg) |
|---|---|---|
| 35473-001 | Cable Lashing Bar Kit | 2 (0.9) |

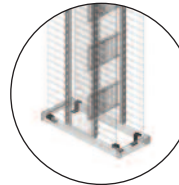*Zinc plated, silver colored.*

### Cable Divider Bar Kit

Cable Divider Bar Kit provides tie points for cables inside Evolution Vertical Cable Managers and divides the interior of the cable manager to create multiple pathways for cables.

- Use with any height Evolution Vertical Cable Manager
- Attaches to the fixed accessory panels inside vertical cable managers
- Each Cable Divider Bar is 5.75"H x 1"W x 20"L (146 mm x 25 mm x 510 mm), welded steel construction consisting of a vertical cable lashing bar and two U-shaped cable dividers
- Use side-by-side to create multiple pathways in 10"W (250 mm) or wider cable managers
- Each kit includes four Cable Divider Bars and mounting hardware

| Part Number | Description | Shipping Weight lb (kg) |
|---|---|---|
| 35503-701 | Cable Divider Bar Kit | 3 (1.4) |

*Color is black.*

### Evolution™ Floor Bracket

Evolution™ Floor Bracket secures the base of Evolution Vertical Cable Managers to the floor when located at the end of a row of equipment racks.

- Light-duty, steel bracket with attachment hole sized for 1/4" hardware
- Sold in packs of 12, order floor attachment hardware separately

| Part Number | Description | Shipping Weight lb (kg) |
|---|---|---|
| 35506-701 | Evolution Floor Bracket, Pack of 12 | 3 (1.4) |

*Color is black.*

## ACCESSORIES and SERVICE PARTS

### Solid Rear Panel

Solid Rear Panel encloses the rear of the Evolution g1 Single-Sided Vertical Cable Manager.

• Easy installation – hangs from the top of the manager; attaches to the back of the fixed accessory panels with included hardware

• Install Cable Distribution Spools and any additional fixed accessory panels before attaching the Solid Rear Panel; does not block attachment of other cable management accessories inside the manager

• Sold individually or in pairs; select to match the width and height of the cable manager

| Height ft (m) | 6"W (150 mm) | 8"W (200 mm) | 10"W (250 mm) | 12"W (300 mm) | 15"W (380 mm) | Shipping Weight lb (kg) |
|---|---|---|---|---|---|---|
| | Part Number (each) | | | | | |
| 6 (1.8) | 35501-701 | 35501-704 | 35501-707 | 35501-710 | 35501-713 | 9 (4.1) |
| 7 (2.1) | 35501-702 | 35501-705 | 35501-708 | 35501-711 | 35501-714 | 11 (5.0) |
| 8 (2.4) | 35501-703 | 35501-706 | 35501-709 | 35501-712 | 35501-715 | 12 (5.4) |
| | Part Number (Pair) | | | | | |
| 6 (1.8) | 35501-751 | 35501-754 | 35501-757 | 35501-760 | 35501-763 | 34 (15.4) |
| 7 (2.1) | 35501-752 | 35501-755 | 35501-758 | 35501-761 | 35501-764 | 42 (19.1) |
| 8 (2.4) | 35501-753 | 35501-756 | 35501-759 | 35501-762 | 35501-765 | 46 (20.9) |

*Color is black. Shipping weights are for 15 inch wide (380 mm) Solid Rear Panels.*

### Solid Mid Panel

Solid Mid Panel covers and divides the front and rear of the Evolution g2 Double-Sided Vertical Cable Manager.

• Easy installation – nested two-piece assembly telescopes to cover the width of the manager; attaches to the back of the Movable Mid-Sections inside the manager with included hardware

• Does not block attachment of additional Moveable Mid-Sections or other cable management accessories inside the manager

• Includes one Moveable Mid-Section for 7'H (2.1 m) manager and two for 8'H (1.8 m) manager.

• Sold individually or in packs of four; select to match the width and height of the cable manager

| Height ft (m) | 6"W (150 mm) | 8"W (200 mm) | 10"W (250 mm) | 12"W (300 mm) | 15"W (380 mm) | Shipping Weight lb (kg) |
|---|---|---|---|---|---|---|
| | Part Number (each) | | | | | |
| 6 (1.8) | 35497-701 | 35497-704 | 35497-707 | 35497-710 | 35497-713 | 14 (6.4) |
| 7 (2.1) | 35497-702 | 35497-705 | 35497-708 | 35497-711 | 35497-714 | 16 (7.3) |
| 8 (2.4) | 35497-703 | 35497-706 | 35497-709 | 35497-712 | 35497-715 | 18 (8.2) |
| | Part Number (Pack of 4) | | | | | |
| 6 (1.8) | 35497-751 | 35497-754 | 35497-757 | 35497-760 | 35497-763 | 58 (26.3) |
| 7 (2.1) | 35497-752 | 35497-755 | 35497-758 | 35497-761 | 35497-764 | 62 (28.1) |
| 8 (2.4) | 35497-753 | 35497-756 | 35497-759 | 35497-762 | 35497-765 | 70 (31.8) |

*Color is black. Shipping weights are for 15 inch wide (380 mm) Solid Mid Panels.*

### Solid Side Panel

Solid Side Panel covers the side of a Evolution g2 Double-Sided Vertical Cable Manager located at the end of a row of equipment racks.

• Easy tool-less installation – hangs from the top of the manager and attaches at the bottom of the manager with included snap-in hardware

• Sold individually or in pairs; select to match the height of the cable manager

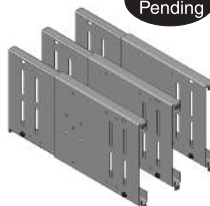| Part Number | Description Height - ft (m) | Shipping Weight lb (kg) |
|---|---|---|
| 35502-701 | 6 (1.8), Each | 16 (7.3) |
| 35502-702 | 7 (2.1), Each | 19 (8.6) |
| 35502-703 | 8 (2.4), Each | 21 (9.5) |
| 35502-751 | 6 (1.8), 1 Pair | 30 (13.6) |
| 35502-752 | 7 (2.1), 1 Pair | 35 (15.9) |
| 35502-753 | 8 (2.4), 1 Pair | 39 (17.7) |

*Color is black.*



*Evolution g2 Double-Sided Cable Managers shown with Solid Mid Panel (fig.1), Movable Mid-Section (fig. 2) and Solid Rear Panel (fig. 3)*

*Figure 1*    *Figure 2*    *Figure 3*
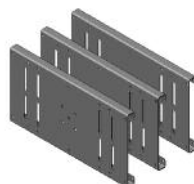
**Patent Pending**

### Movable Mid-Section Kit

Kit includes three additional Movable Mid-Sections for the Evolution g2 Double-Sided Vertical Cable Manager.

• Select to match the width of the cable manager

• Includes installation hardware

| Part Number | Description Width - in (mm) | Shipping Weight lb (kg) |
|---|---|---|
| 35493-701 | For 6 (150) Evolution g2 Double-Sided Vertical Cable Manager | 4 (1.8) |
| 35493-702 | For 8 (200) Evolution g2 Double-Sided Vertical Cable Manager | 5 (2.3) |
| 35493-703 | For 10 (250) Evolution g2 Double-Sided Vertical Cable Manager | 5 (2.3) |
| 35493-704 | For 12 (300) Evolution g2 Double-Sided Vertical Cable Manager | 7 (3.2) |
| 35493-705 | For 15 (380) Evolution g2 Double-Sided Vertical Cable Manager | 8 (3.6) |

*Color is black.*

### Fixed Accessory Panel Kit

Kit includes three additional fixed accessory panels for Evolution g1 Single-Sided Vertical Cable Manager.

• Select to match the width of the cable manager

• Includes installation hardware

| Part Number | Description Width - in (mm) | Shipping Weight lb (kg) |
|---|---|---|
| 35492-701 | For 6 (150) Evolution g1 Single-Sided Vertical Cable Manager | 3 (1.4) |
| 35492-702 | For 8 (200) Evolution g1 Single-Sided Vertical Cable Manager | 4 (1.8) |
| 35492-703 | For 10 (250) Evolution g1 Single-Sided Vertical Cable Manager | 5 (2.3) |
| 35492-704 | For 12 (300) Evolution g1 Single-Sided Vertical Cable Manager | 6 (2.7) |
| 35492-705 | For 15 (380) Evolution g1 Single-Sided Vertical Cable Manager | 7 (3.2) |

*Color is black.*

**CPI**

**CHATSWORTH PRODUCTS, INC.**