SYSTIMAX®
COMMSCOPE

SYSTIMAX® VisiPatch 360® system

A revolution in patching

YOUR NETWORK
YOUR FUTURE

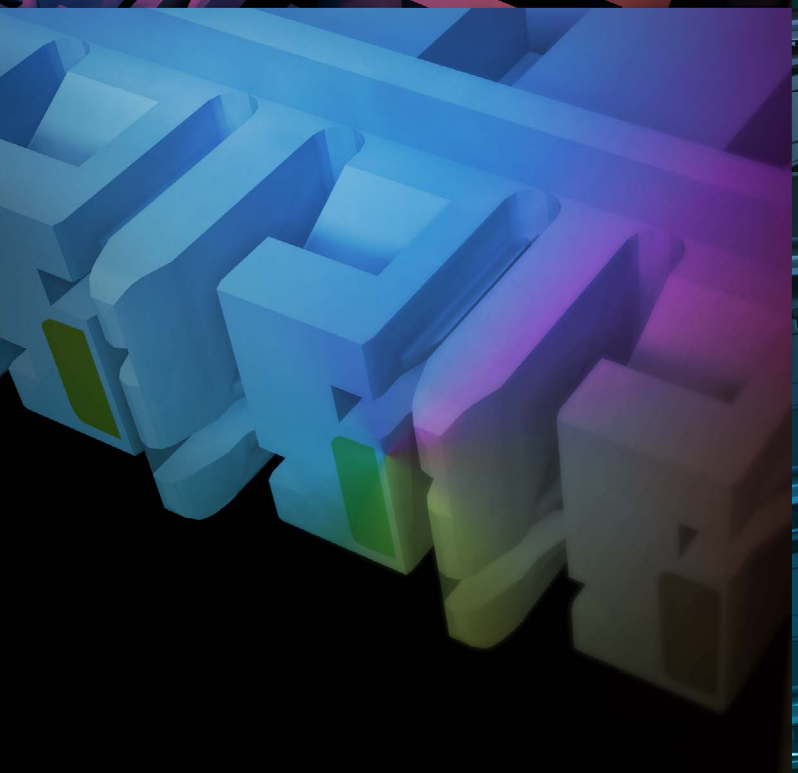
What if...

- you could add a whole new dimension to your communications room?
- a patching system could save you time, space and money?
- you could experience performance in a whole new way?

It's possible.

Introducing the
SYSTIMAX
VisiPatch 360 System

It's a revolution in patching.



Change how you view performance

It's more than bandwidth.
It's more than speed.
It's more than product reliability.

CommScope, through its SYSTIMAX® brand, has always been dedicated to understanding the user experience, listening to our customers' concerns and needs, and analyzing how we can help improve efficiency. And after exhaustive research, we've developed a whole new approach that holistically integrates form, function and usability to deliver true performance.

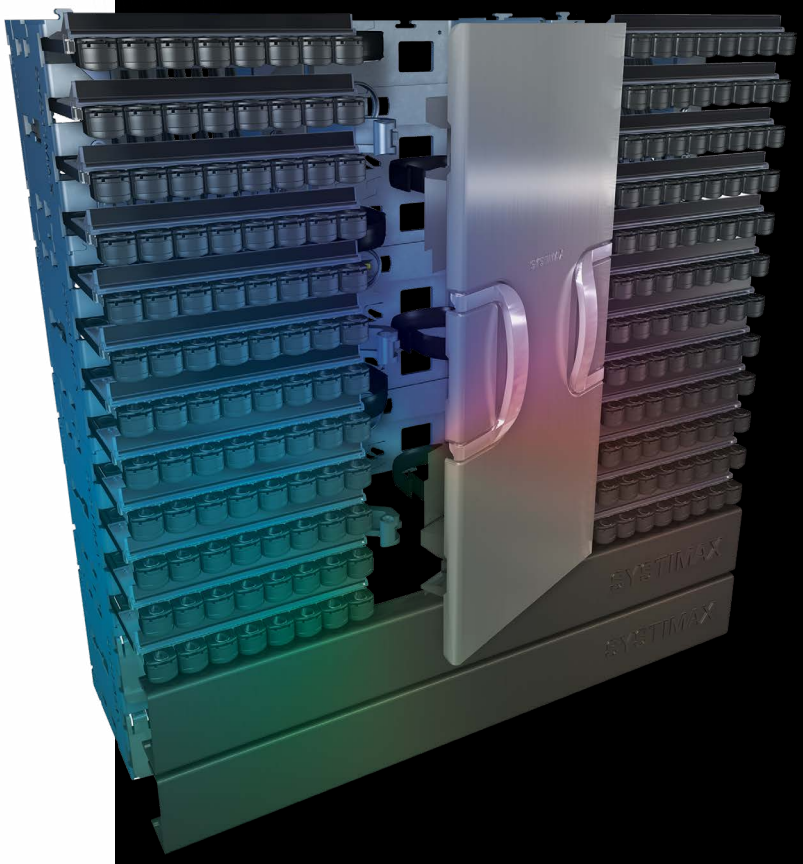
We call it our 360-degree design philosophy

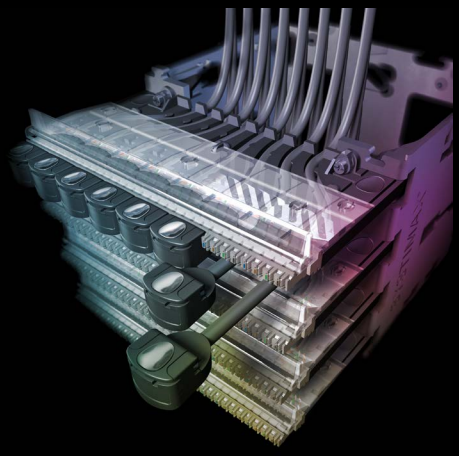
It's an approach that redefines performance from every angle. It combines breakthrough technology with radical design innovation. The result is a whole new approach to network infrastructure solutions.

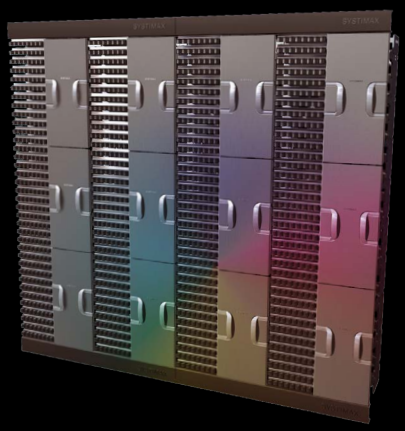
The first result of this new philosophy is a new generation of patching systems—the SYSTIMAX VisiPatch 360 System, which seamlessly incorporates patching and integrated cable management to deliver an ergonomically designed and aesthetically pleasing solution that saves you time, space and money.

A revolutionary difference

The unique reverse patching technology the VisiPatch 360 System employs improves cord management and reduces the "spaghetti" cord clutter of poorly installed RJ45 systems. The reduced clutter is both visually elegant and ergonomically functional, providing for clear and easy port labeling, a simpler user experience, and a sophisticated appearance in your communications room.







By projecting the cord away from the user and into the patching field, the VisiPatch 360 System makes the patch cord plug-end more accessible, makes reading the labeling information easy and facilitates future moves, adds and changes.

Due to the increased usable density, the VisiPatch 360 System can be more cost-effective than RJ45 systems.

Usable density is also maximized in the VisiPatch 360 System. Patch cord and cable congestion in traditional RJ45 systems cause usable density to be lower than the actual port density. Not so with the VisiPatch 360 System, which is specifically designed to maximize usable density by minimizing patch cord and cable congestion. Now, with the additional option of small diameter (MiNo6A) cordage, the bundled cord volume is significantly reduced in the patch cord management areas.

Continuing the technology and performance excellence that CommScope is known for, the VisiPatch 360 System makes possible the first real IDC-based 10G components and channel.

Designed with your needs in mind

What the key VisiPatch 360 System features and benefits mean for you

Save time

- Best-in-class transmission performance
- Easy access to patch plug
- Snap-together components
- Clear and simple port labeling

Save space

- Modular, scalable and flexible
- Unique reverse patching technology
- Integrated horizontal and vertical cable and patch cord management

Save money

- Increased usable density
- Cost-effective 10G connectivity system
- Lower per-port cost than traditional RJ45 applications

Save time, space and money from the inside out

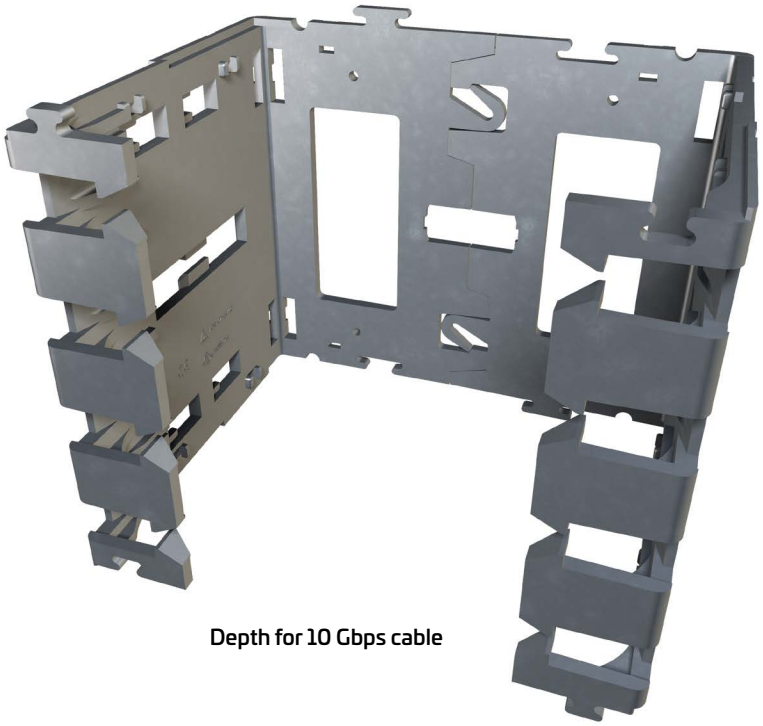
The five key components that make up the VisiPatch 360 System are carefully designed to work together to create a simple and custom installation. This modular nature of the system also means future expansion is easy and cost-effective.

Back panel

The back panel is made of structural foam and serves as the framework for the system. Careful thought went into ergonomically designing the back panels to simplify installation as well as future expansion.

- 7 in (17.78 cm) depth to accommodate 10 Gbps cable
- Space between the wiring blocks equal to 1U (1RMU)
- Top and bottom guides allow for quick, easy stacking

Interlocking tabs for quick, easy stacking

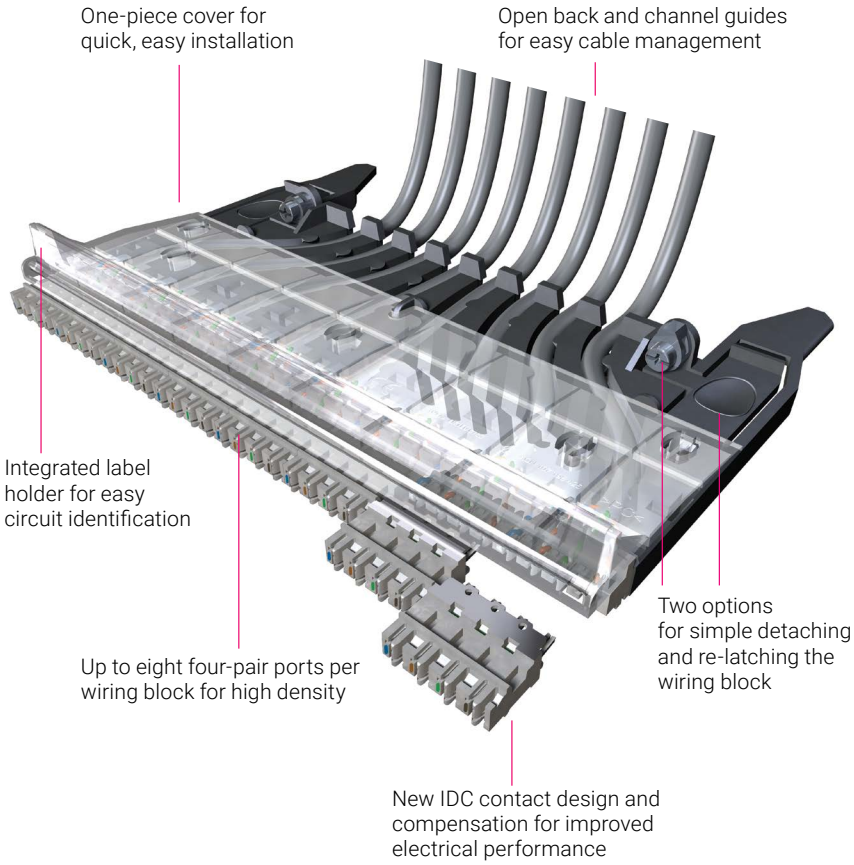


Depth for 10 Gbps cable

Wiring block/connecting block

Even the standard wiring block benefited from a complete rethinking. The result was the redesign or addition of several key features that improve performance and ease of use.

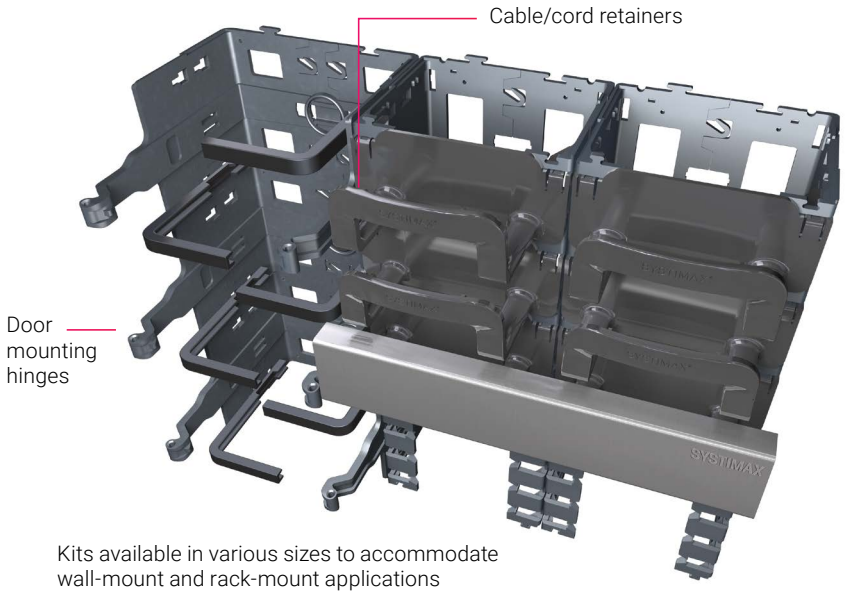
- Accommodates up to eight four-pair ports per wiring block for high density
- Eight port count to match server/switch configuration
- Open back and channel guides for easy cable management
- One-touch finger releases for simple detaching and re-latching of the wiring block
- Quarter-turn cam fasteners provide alternative method for detaching the wiring block
- One-piece cover for quick, easy installation
- Patented new IDC contact design and compensation methods, including offset IDCs and parasitic rings, improve electrical performance



Cable management

Key to the efficient design and elegant appearance of the VisiPatch 360 System, the innovative cable management system fully integrates robust vertical and horizontal spaces to increase ease of use.

- Spacer module—integral part of the vertical trough cable manager kit—offers easy installation and proper alignment
- Spacer module features 11.5 in (29.21 cm) depth for efficient cable/cord management
- Micro/macro cable/cord retainers available for better cable/cord management in the vertical cable trough
- Modular horizontal cable management trough and cover provide additional spaces for cord management



Patch cord

One of the most dramatically redesigned elements in the VisiPatch 360 System is the visually striking patch cord. Designed with ergonomics and appearance in mind, the patch cords offer easy access to plug ends.

- Compact, ergonomically designed plug is easy to grab and patch
- Clear demarcation of gripping points improves speed and efficiency of patching
- Four-pair and one-pair patch cords available
- Integrated anti-snag design for frustration-free installation and moves, adds and changes post-installation
- Labeling area makes future MACs much simpler
- Accommodates data, analog, digital and power circuits

The newly redesigned option of the VP360 patch cords is one that incorporates a reduced diameter cordage. This new size changes the volume of bundled cords to be approximately 20% less than the current patch cord offering. This is especially important when adding VisiPatch circuits in existing telecommunication closets. The results are a more streamlined cord arrangement with aesthetically optimized appearance of the cord bundles.

The reduced diameter patch cords are based off of the CommScope MiNo6A brand cords. The VisiPatch-MiNo6A conforms to all existing design and performance criteria of the MiNo6A patch cord product line.

- The MiNo6A cord diameter is 4.95 mm (0.195 in) versus the standard VP360 cord diameter of 6.02 mm (0.237 in).
- Same connecting features and apparatus routing as existing VP360 cords.
- Design guidelines for MiNo6A patch cords apply to the VP360-MiNo6A patch cords.
- Perfect for cross connects, workstations or racks with higher density and/or limited space
- Small diameter unshielded twisted pair patch cords (0.195 in/4.95 mm) that offer flexibility, durability and reliability
- Unique laminate barrier wrap provides excellent alien cross-talk performance

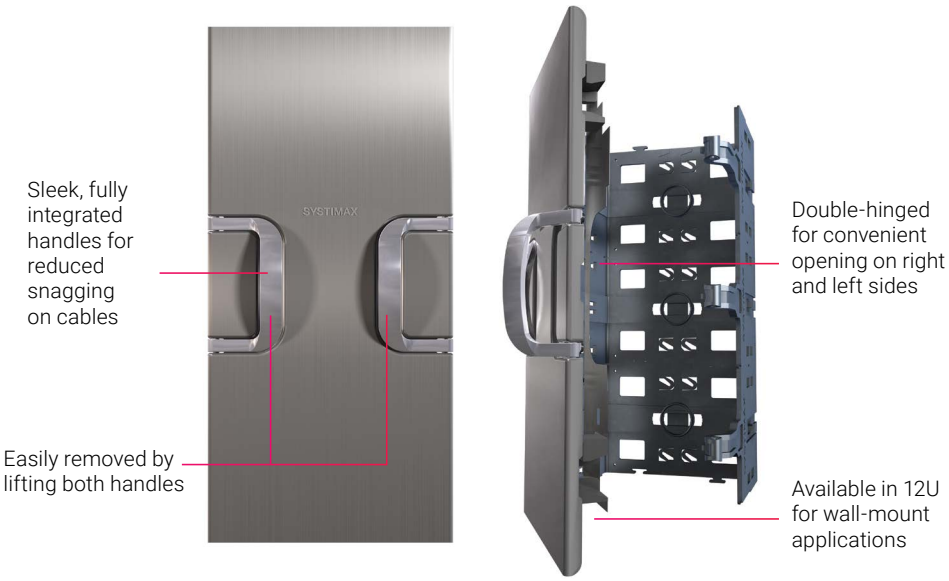
BASE CODE, CPCFFV2
(VP360-MiNo6A-to-VP360-MiNo6A)

BASE CODE, CPCFMV2
VP360-MiNo6A-to-RJ45)

Vertical trough cover

The vertical cable management is concealed by the vertical trough cover, a beautiful brushed aluminum door that can swing easily to either side or be removed altogether.

- Double-hinged doors allow for convenient right or left opening without removal or awkward handle rotation
- Door can be easily removed by lifting both handles with a smooth, quiet operation
- Door attaches easily to hinge points thanks to added gather and bullet-nosed hinge pins.
- Ergonomic, sleek and fully-integrated polished handles minimize snagging on clothing or cables
- Available in 12U to accommodate wall-mount applications



Product specifications

Guaranteed performance specifications for four-connection GigaSPEED X10D® UTP channels[1]	
Electrical parameter	**Guaranteed channel margins to amendment [1] to ISO/IEC 11801:2002 Class E_A (1 - 500 MHz)**
Insertion loss	3%
NEXT	1 dB
PSNEXT	2.5 dB
ACR-F	6 dB
PSACR-F	8 dB
Return loss, PSANEXT, PSANEXTavg, PSAACR-F, PSAACR-Favg	> 0 dB

[1] Insertion loss margin is calculated based on 12 m of 95 series cordage and 88 m of 91 series cable plus four connections. If the total cord length in a 100 m channel has to be greater than 12 m, please refer to GigaSPEED X10D Design and Installation Guidelines for the instruction on how to scale cable and cord length properly.

Product specifications (continued)

Guaranteed channel performance specifications for four-connection GigaSPEED X10D UTP systems														
Freq (MHz)	Insertion Loss (dB)	PS ANEXT (dB)	Avg. PS ANEXT (dB)	PS AACR-F (dB)	Avg. PS AACR-F (dB)	NEXT (dB)	ACR-N (dB)	PS NEXT (dB)	PS ACR-F (dB)	ACR-F (dB)	PS ACR-F (dB)	Return Loss (dB)	Delay (ns)	Delay Skew (ns)
1.0	3.9	67.0	69.25	67.0	71.0	71.0	68.8	69.5	67.3	69.3	68.3	22.0	580	40
4.0	4.0	67.0	69.25	65.0	69.0	69.0	65.0	68.0	64.0	57.2	56.2	22.0	562	40
8.0	5.6	67.0	69.25	58.9	62.9	64.2	58.6	63.1	57.5	51.2	50.2	22.0	557	40
10.0	6.3	67.0	69.25	57.0	61.0	62.6	56.3	61.5	55.2	49.3	48.3	22.0	555	40
16.0	7.9	67.0	69.25	52.9	56.9	59.2	51.3	58.1	50.2	45.2	44.2	18.9	553	40
20.0	8.9	67.0	69.25	51.0	55.0	57.6	48.7	56.5	47.6	43.2	42.2	19.0	552	40
25.0	9.9	66.0	68.25	49.0	53.0	56.0	46.1	54.8	44.9	41.3	40.3	19.1	551	40
31.3	11.1	65.1	67.35	47.1	51.1	54.4	43.3	53.2	42.1	39.3	38.3	19.2	550	40
62.5	15.9	62.0	64.25	41.1	45.1	49.4	33.5	48.1	32.2	33.3	32.3	17.0	549	40
100.0	20.3	60.0	62.25	37.0	41.0	45.9	25.6	44.6	24.3	29.3	28.3	15.0	548	40
200.0	29.2	55.5	57.75	31.0	35.0	40.8	11.6	39.4	10.2	23.2	22.2	12.0	547	40
250.0	32.9	54.0	56.25	29.0	33.0	39.1	6.2	37.7	4.8	21.3	20.3	11.0	546	40
300.0	36.2	52.8	55.05	27.5	31.5	32.7	-3.5	31.3	-4.9	20.0	19.0	7.2	546	40
400.0	42.3	51.0	53.25	25.0	29.0	30.6	-11.7	29.1	-13.2	17.5	16.5	6.0	546	40
500.0	47.8	49.5	51.75	23.0	27.0	28.9	-18.9	27.3	-20.5	15.5	14.5	6.0	546	40

Note: The table provides reference values only. All parameters comply with the governing equations given above over the entire frequency range. All values and equations apply to worst-case channels utilizing four-pair 91 series cables with full cross-connects, consolidation points and work area outlets (four connections in a channel) for the length up to 100 m.

Length (de-rating guidelines)

The 28-AWG cordage of MiNo6A cords is insertion loss de-rated by 90%, in contrast to the 20% de-rating of conventional cordage. ANSI/TIA-568.2-D and ISO 11801 specify insertion loss de-rating differently.

ANSI/TIA-568.2-D provides a method for determining the maximum cordage length (P) for a given horizontal cable length (H) using a fractional de-rating factor (D), while ISO 11801 calculates the maximum horizontal length for a given total cordage length (F) using a loss factor (X). The results are similar, with the ANSI/TIA-568.2-D spec being the more restrictive of the two. An example of the calculation for each standard is shown in the tables below.

Though TIA recommends that no more than 15 m of 28 AWG cordage be used in a channel, CommScope testing has shown that MiNo6A cords are compliant to Category 6A performance requirements in lengths of up to 40 m when used in direct attached applications.

TIA cord length from horizontal length (H)
$P \leq (102 - H)/D$

	24 AWG D=1.2	MiNo6A D=1.9
90.0	10.0	6.3
88.0	11.7	7.4
86.0	13.3	8.4
84.0	15.0	9.5
82.0	16.7	10.5
80.0	18.3	11.6
78.0	20.0	12.6
76.0	21.7	13.7
74.0	23.3	14.7

ISO cord length from horizontal length (H)
$F \leq (103 - H)/X$

	24 AWG X=1.2	MiNo6A X=1.9
90.0	10.8	6.8
88.0	12.5	7.9
86.0	14.2	8.9
84.0	15.8	10.0
82.0	17.5	11.1
80.0	19.2	12.1
78.0	20.8	13.2
76.0	22.5	14.2
74.0	24.2	15.3

ISO 11801 also has a mixed de-rating calculation when using cords of both types with a second cordage (C) and second de-rating (Y):

$H = 103 - F * X - C * Y$

For example, with a 5 m 360GS10E cord and two 3 m MiNo6A cords, the maximum horizontal length = 103 – (1.2*5) – (1.9*6) = 85.6 m.

Product specifications (continued)

Select product dimensions

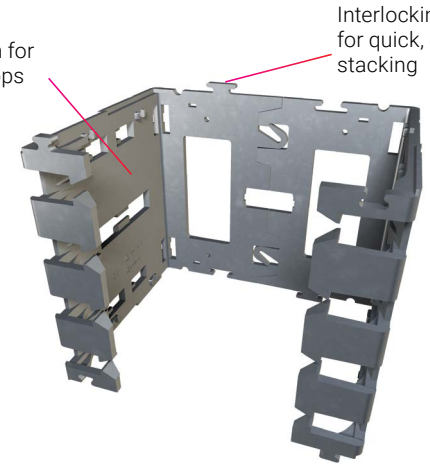
	Height	Width	Depth
Patch panel kits			
4U (32 ports)	7.1 in (18.03 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)
12U (96 ports)	21.2 in (53.84 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)
Cable manager kits - vertical			
12U	21.0 in (53.34 cm)	10.0 in (25.40 cm)	11.8 in (29.97 cm)

Electrical specifications

Insulation Resistance	>1000 MOhms min.
Current Rating	2.0 A @ 20° C (68° F)
TIA/EIA:ISO Class E_A	6A
Dielectric Withstand Voltage	1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
Fault Current Test	7 A for a minimum of 5 seconds
UL, cUL, CE, Austel	Listed

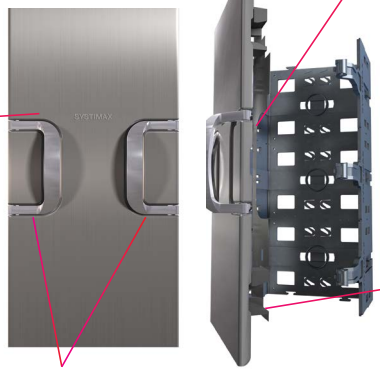
SYSTIMAX VisiPatch 360 System

Back panel

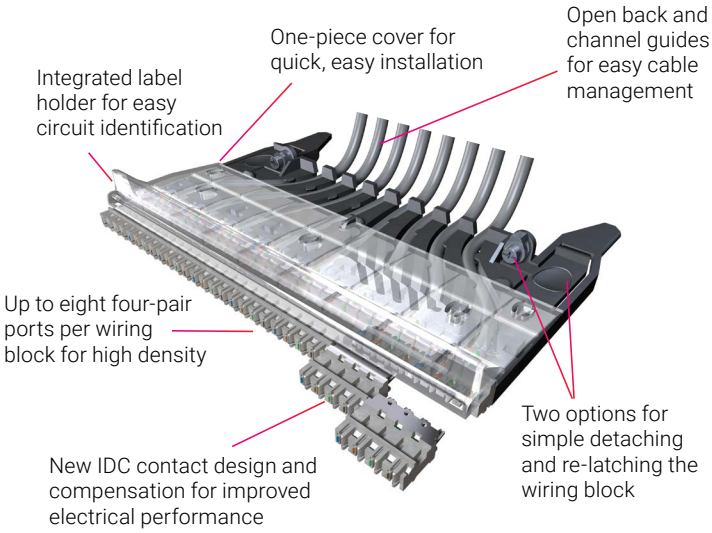


Patch cord

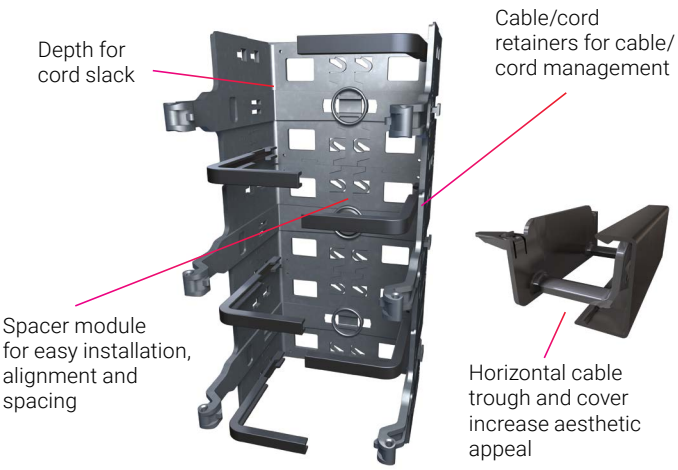
Vertical trough cover



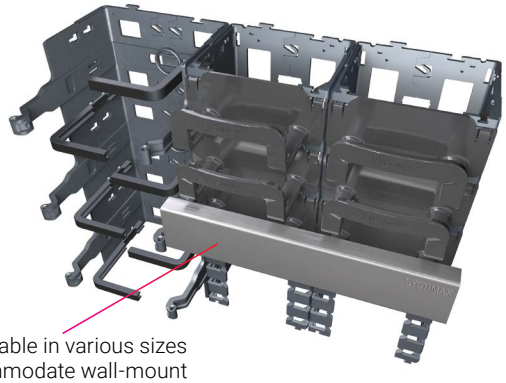
Wiring block/connecting block



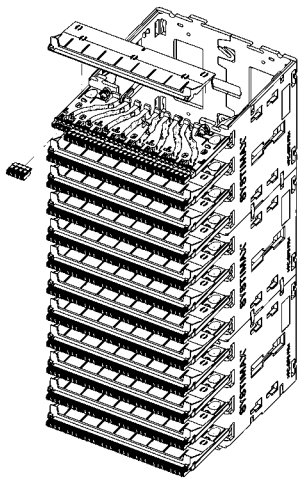
Vertical cable management



Horizontal cable management



Ordering information



VP360-12U-96P

Patch panel kits

MID	Product ID	Description	Component description	Qty
760049445	VP360-4U-32P	VisiPatch 360 4U (32 ports) Kit	VisiPatch 360 Back Panel 4U VisiPatch 360 Wiring Block VisiPatch 360 Wiring Block Cover VisiPatch 360 Connecting Block VisiPatch Label Holder White Label	1 4 4 32 4 12
760049452	VP360-12U-96P	VisiPatch 360 12U (96 ports) Kit	VisiPatch 360 Back Panel 12U VisiPatch 360 Wiring Block VisiPatch 360 Wiring Block Cover VisiPatch 360 Connecting Block VisiPatch Label Holder White Label	1 12 12 96 12 12
760074278	VP360-19PNL-KT	VisiPatch 360 19 in 1U Panel Kit	VisiPatch 360 19 in 1U Panel VisiPatch 360 Wiring Block Wiring Block Cover VisiPatch 360 Connecting Block VisiPatch Label Holder White Label Screw, #12-24 x 0.50 in	1 2 2 16 2 12 4

Patch cord

Material ID	Product number	Description	Jack color options	Cord color options	UOM	Cable/cordage length options
VisiPatch 360 System GigaSPEED X10D patch cord						
CPCFFX2	VP360T-VP360T-P8X10D	VisiPatch360-VisiPatch360 X10D 4-pair Solid Cord T	0	1,2,3,8,9,C,Z	F,M	7-100ft / 2-30m
CPCFSX2	VP360T-360GS10E	VisiPatch360-360GS10E X10D 4-pair Solid Hybrid Cord T	0	1,2,3,8,9,C,Z	F,M	7-100ft / 2-30m
CPCFSXG	VP360T-360GS10E-A	VisiPatch360-360GS10E X10D 4-pair Solid Hybrid Cord T, A-wired	0	1,2,3,8,9,C,Z	F,M	7-100ft / 2-30m
CPCFFXD	VP360T-VP360T-P8X10D-XD	VisiPatch360-VisiPatch360 X10D 4-pair Solid Cord Crossover T	0	1,2,3,8,9,C,Z	F,M	7-100ft / 2-30m
CPCFFZ2	VP360T-VP360T-P8X10D-L	VisiPatch360-VisiPatch360 X10D 4-pair LSZH Solid Cord T	0	1,2,3,8,9,C,Z	F,M	7-100ft / 2-30m
CPCFSZ2	VP360T-360GS10E-L	VisiPatch360-360GS10E-L X10D 4-pair LSZH Solid Hybrid Cord T	0	1,2,3,8,9,C,Z	F,M	7-100ft / 2-30m

Ordering material ID example: CPCFFX2 - 03F007

Cord Color Options

1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
8 White (WH)
9 Yellow (YL)
C Slate (SL)
Z Blue (BL)

Ordering information *continued*

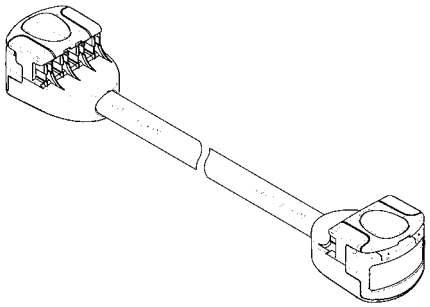
Patch cord

Material ID	Product number	Description	Jack color options	Cord color options	UOM	Cable/cordage length options
VisiPatch® 360 System GigaSPEED® XL patch cord						
CPCFF12	VP360-VP360-P8XL	VisiPatch360-VisiPatch360 XL 4-pair Cord	0	1,2,3,8,9,Z	F,M	1-100ft / 1-30m
CPCF312	VP360-GS8E	VisiPatch360-GS8E XL 4-pair Hybrid Cord	0	1,2,3,8,9,Z	F,M	1-100ft / 1-30m
CPCFF92	VP360-VP360-P8XL-L	VisiPatch360-VisiPatch360 XL 4-pair LSZH Cord	0	1,2,3,8,9,Z	F,M	1-100ft / 1-30m
CPCF392	VP360-GS8E-L	VisiPatch360-GS8E XL 4-pair LSZH Hybrid Cord	0	1,2,3,8,9,Z	F,M	1-100ft / 1-30m

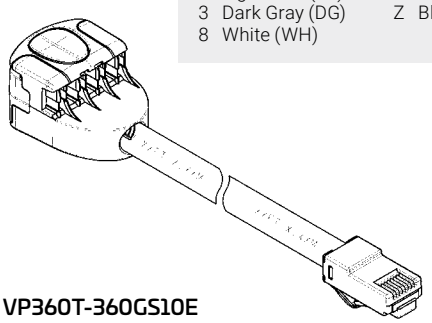
Ordering material ID example: C P C F F 1 2 - 0 3 F 0 0 7

Cord Color Options

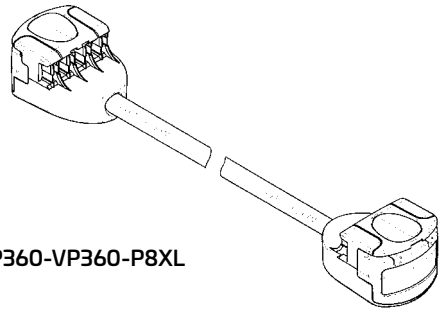
1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
8 White (WH)
9 Yellow (YL)
C Slate (SL)
Z Blue (BL)



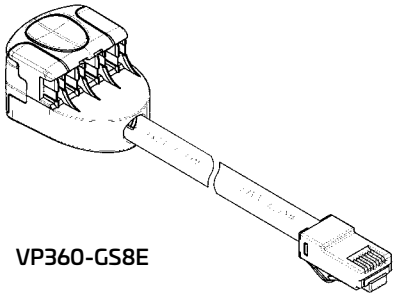
VP360T-VP360T-P8X10D



VP360T-360GS10E



VP360-VP360-P8XL



VP360-GS8E

Recommended label sizes for patch cord plugs are:

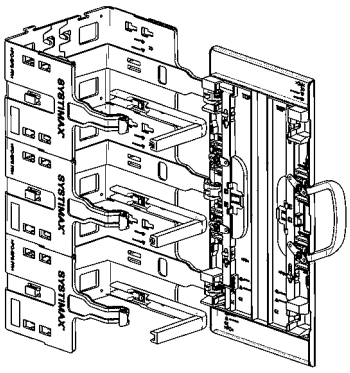
- 3/8 in H x 7/8 in W for four-pair

Patch cord (small diameter cordage)

Material ID	Product number	Description	Jack color options	Cord color options	UOM	Cable/cordage
VisiPatch 360 System GigaSPEED X10D patch cord – Small diameter cordage						
CPCFFV2	VP360T-VP360T-P8_MiNo6A	VisiPatch360_MiNo6A-VisiPatch360_MiNo6A X10D 4-pair Solid Cord T	0	3, 8	F,M	3-33 ft/1-10 m
CPCFMV2	VP360T- MiNo6A_RJ45-P8_MiNo6A	VisiPatch360_MiNo6A-RJ45_MiNo6A X10D 4-pair Solid Cord T	0	3, 8	F,M	3-33 ft/1-10 m

Ordering material ID example: C P C F F V 2 - 0 3 F 0 0 7

Ordering information *continued*



VP360-12U-10VTCM

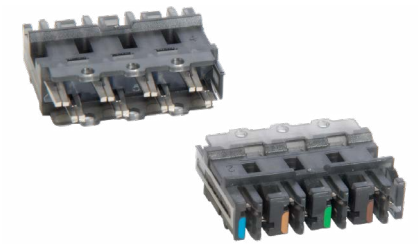
Cable manager kits—vertical

MID	Product ID	Description	Component description	Qty
760236389	VP360-12U-10VTCM	VisiPatch 360 12U Vertical Trough Cable Mgr Kit e/w Door, 10 in	VisiPatch 360 12U VTCM Door, 10 in 4U Spacer Module 4U Spacer Module Extender Macro Cable/Cord Retainer	1 3 3 3

Cable manager kits—horizontal

MID	Product ID	Description	Component description	Qty
760060343	VP360-HCM-Kit-19	VisiPatch 360 Horizontal Cable Mgr Kit, 19 in	4U Back Panel Base Horizontal CM Trough Horizontal Trough Cover, 19 in	1 2 2
760060301	VP360-HCM-Kit-27	VisiPatch 360 Horizontal Cable Mgr Kit, 27 in	4U Back Panel Base Horizontal CM Trough Horizontal Trough Cover, 27 in	2 4 2
760060871	VP360-HCM-Kit-37	VisiPatch 360 Horizontal Cable Mgr Kit, 37 in	4U Back Panel Base Horizontal CM Trough Horizontal Trough Cover, 37 in	2 4 2

Ordering information *continued*



VP360-CB-10

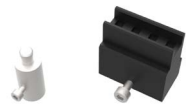
VP360-RMBKT

VP360-CBF-SK

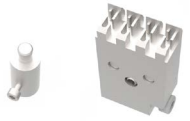
Accessories

MID	Product ID	Description	Component description	Qty
760060277	VP360-CB-10	VisiPatch 360 Connecting Block, 10/pk	VisiPatch 360 Connecting Block	10
760060251	VP360-4U-BPK	VisiPatch 360 4U Back Panel Kit	VisiPatch 360 Back Panel 4U Metal Clip	2 12
760060327	VP360-2U-RMBKT	VisiPatch 360 19 in Rack Mount Bracket	19 in Rack Mounting Bracket	1
760060335	VP360-CBF-SK	VisiPatch 360 Cable Bundle Fastener Kit, Small	Micro Cable/Cord Retainer	4
760074286	VP360-32PR-WB	VisiPatch 360 Wiring Block Kit	VisiPatch 360 Wiring Block Index Strip Wiring Block Cover VisiPatch 360 Connecting Block VisiPatch Label Holder White Label	2 2 2 16 2 12
760080630	VP360-SIDEPNL	VisiPatch 360 Side Panel	VisiPatch 360 Side Panel	3
760074294	VP360-19PNL	VisiPatch 360 19 in 1U Panel	VisiPatch 360 19 in 1U Panel Screw, #12-24 x 0.50 in	1 4
760236390	VP360-12U-Door-10	VisiPatch 360 12U Door, 10 in. wide		1
760072488	VP-Label	VisiPatch 360 4 Pair Cord Label		5 (260 labels/ sheet)
760130104	VP360-8FILLERPLUG-KIT	VisiPatch 360 4-Pair Filler Plug Kit, 8/pk	Component Desc: 8 GigaSPEED X10D 4-Pair VisiPatch 360 Filler Plugs Without Metal Contacts	8
108528464	110BG3-2688L	Blue Label		96

VP360-914-BIT-E



VP360-SEATING TOOL



VP360 PUNCHDOWN TOOL

Tool kits

MID	Product ID	Description	Component description	Qty
760142463	VP360-914-BIT-E	GigaSPEED X10D VisiPatch 360 1-Pair Tool Bit, E version	This tool suits the D914 Fluke tool handle	1
760225573	VP360-SEATING TOOL	GigaSPEED X10D VisiPatch 360 4-Pair Head	4-pair block punch down block	1
760225565	VP360 PUNCHDOWN TOOL	GigaSPEED X10D VisiPatch 360 4-pair cutting tool kit with two extra blades	The seating tool and cutting tool suit the Paladin PA 3561 handle.	1

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