

COPPER SOLUTIONS

- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Modular Panels
- Additional Copper Connectivity
- Coaxial Cable

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Copper Solutions Reference

Copper Conductor Sizes

American Wire Gauge (AWG)	Diameter	DCR	Diameter	DCR
19	0.0359 in	8.05 Ohms/1,000 ft	0.912 mm	26.4 Ohms/km
22	0.0253 in	16.2 Ohms/1,000 ft	0.643 mm	53.2 Ohms/km
23	0.0226 in	20.3 Ohms/1,000 ft	0.574 mm	66.6 Ohms/km
24	0.0201 in	25.7 Ohms/1,000 ft	0.511 mm	84.2 Ohms/km
26	0.0159 in	41.0 Ohms/1,000 ft	0.404 mm	134.5 Ohms/km

Pair Colors

The 4-pair U/UTP cable, pair color combinations are as follows:

Pair Number	1010 Cable Pair Colors		2010 Cable Pair Colors		61, 71, 81, 91 Series Cable Pair Colors	
	(T)ip	(R)ing	(T)ip	(R)ing	(T)ip	(R)ing
1	W-BL	BL-W	W-BL	BL	W	BL
2	W-O	O-W	W-O	O	W	O
3	W-G	G-W	W-G	G	W	G
4	W-BR	BR-W	W-BR	BR	W	BR

The 25-pair U/UTP cable, pair color combinations are as follows:

Pair Number	Colors	Pair Number	Colors	Pair Number	Colors	Pair Number	Colors	Pair Number	Colors
1	BL/W	6	BL/R	11	BL/BK	16	BL/Y	21	BL/V
2	O/W	7	O/R	12	O/BK	17	O/Y	22	O/V
3	G/W	8	G/R	13	G/BK	18	G/Y	23	G/V
4	BR/W	9	BR/R	14	BR/BK	19	BR/Y	24	BR/V
5	S/W	10	S/R	15	S/BK	20	S/Y	25	S/V

Color Codes

1 Black	- BK
2 Light Blue	- LB
3 Dark Gray	- DG
4 Spring Green	- GR
6 Orange	- OR
7 Red	- RD
8 White	- WH
9 Yellow	- YL
B Lilac	- LL
C Slate	- SL
Z Blue	- BL



Twisted Pair Cord and Cable Colors
 DG - available for cordage only



Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

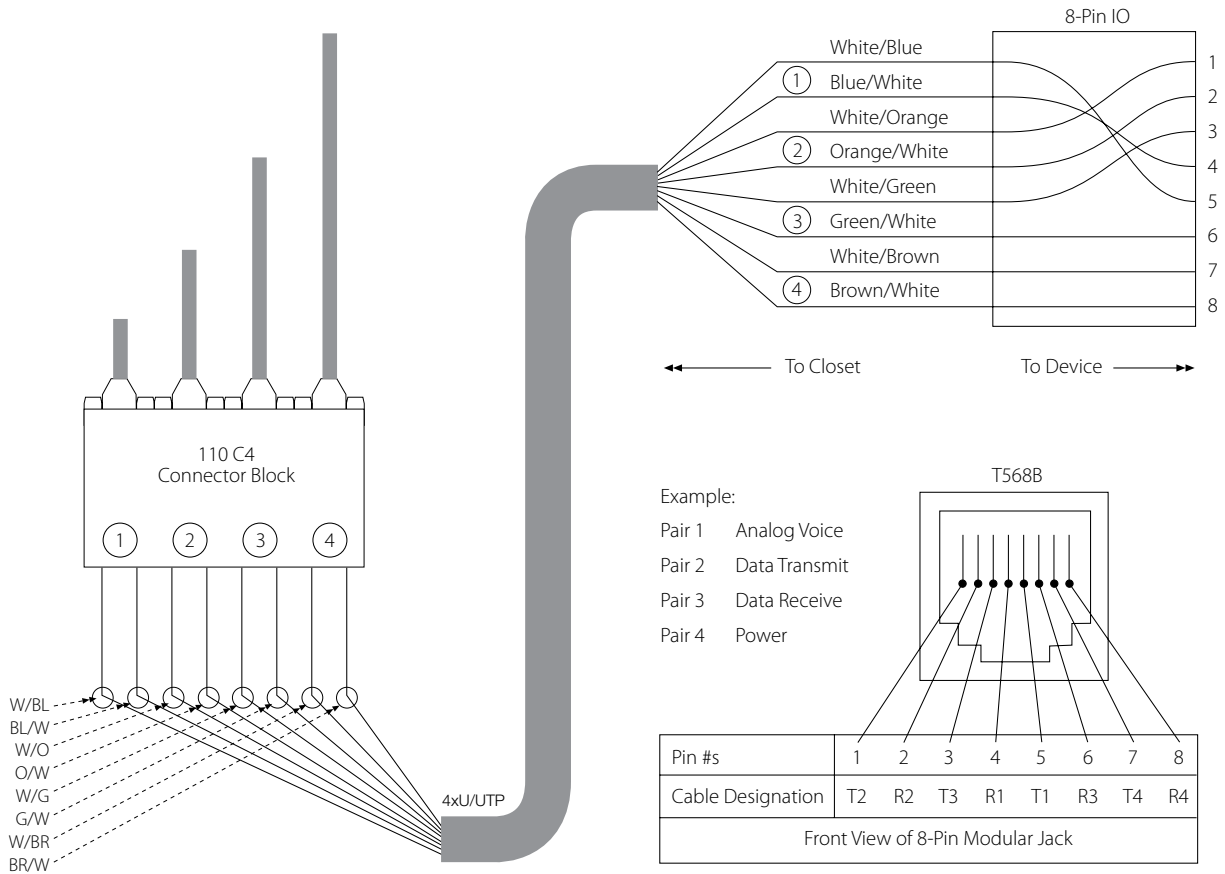
Additional Copper Connectivity

Coaxial Cable

Information Outlet

ISO (International Standards Organization) Pin-Pair Assignment

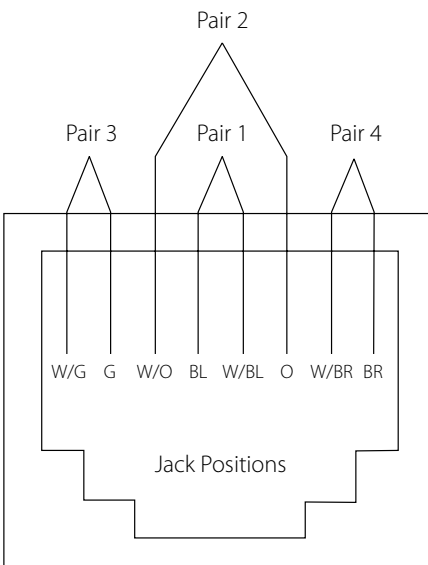
To permit circuit administration at the cross-connects, signals for different services may appear on specified wire pairs. The 8-pin IO is wired internally to make this happen. The 8-pin jack connects particular pins on the station side (the work area wiring) to particular twisted-wire pairs of the building distribution cable (the horizontal wiring).



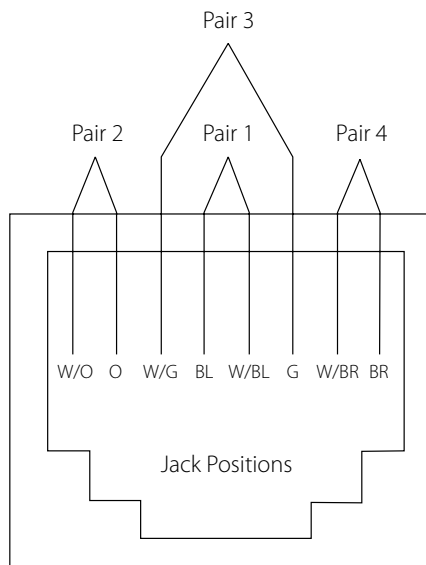
T568 Outlet Specifications

In the ANSI/TIA 568B standard, there are two configurations for termination of the 4-pair cable. They are designated T568A and T568B. The T568A wiring has pair 2 (orange) terminated on pins 3 & 6 and pair 3 (green) terminated on pins 1 & 2. The T568B wiring just reverses the termination of the orange and green pairs. Although T568A and T568B wiring is supported for system registration, SYSTIMAX recommends use of the T568B wiring.

T568A PIN-PAIR ASSIGNMENTS



T568B PIN-PAIR ASSIGNMENTS



The SYSTIMAX M-Series Modules are available with T568A and T568B universal color designations.

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

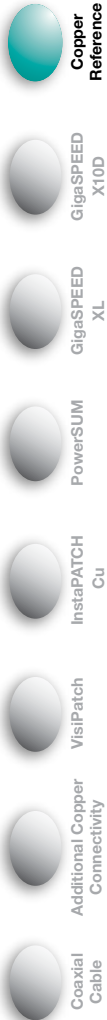
VisiPatch

Additional Copper Connectivity

Coaxial Cable

Copper Cord Assembly Product Identifier

The Copper Cord Assembly Identifier is an excellent tool for customers to identify each module of a cord/cable assembly.



The Copper Cord Assembly Identifier is an excellent tool for customers to identify each module of a cord/cable assembly.

CPC **a** **b** **c** **d** **-** **e** **f** **g** **hhh**

Copper Patch Cord

Termination Two

- 1 MGS500 Jack
- 2 MGS400 Jack
- 3 GS8E (RJ45)
- 4 Unterminated
- 5 VisiPatch®
- 6 D8PS (RJ45)
- 7 GS10E (RJ45)
- 8 110GS
- 9 Keyed GS8E (RJ45)
- C GS8E-IP-C (RJ45)
- D GS8E-IP-D (RJ45)
- F VisiPatch® 360
- G G10FP (RJ45)
- L GSXP RJ45
- N GS8E-SM (RJ45)
- P Keyed 360GS10E-SM (RJ45)
- Q MFP520 (RJ45)
- R 360GS10E-SM (RJ45)
- S 360GS10E (RJ45)
- U MGS600 Jack
- V GSXP-SM (RJ45)

Wiring Scheme

- 1 T568A
- 2 T568B/SYSTIMAX Standard
- 3 10/100 BASE-T Crossover
- 5 1000 BASE-T Crossover
- 6 Rollover
- 8 120P4
- D VP360 Crossover
- T T1 Crossover

Cord Color

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- K Pink (PK)
- L Purple (PR)
- M Green (GR)
- Z Blue (BL)

Length

001	1
002	2
003	3
...	...
050	50
...	...
100	100
...	...

Termination One

- 1 MGS500 Jack
- 2 MGS400 Jack
- 3 GS8E (RJ45)
- 5 VisiPatch®
- 6 D8PS (RJ45)
- 7 GS10E (RJ45)
- 8 110GS
- 9 Keyed GS8E (RJ45)
- C GS8E-IP-C (RJ45)
- D GS8E-IP-D (RJ45)
- F VisiPatch® 360
- G G10FP (RJ45)
- L GSXP RJ45
- N GS8E-SM (RJ45)
- P Keyed 360GS10E-SM (RJ45)
- Q MFP520 (RJ45)
- R 360GS10E-SM (RJ45)
- S 360GS10E (RJ45)
- U MGS600 Jack
- V GSXP-SM (RJ45)

Cordage Type

- 1 1074E 4/24 Stranded Cordage
- 2 3071E 4/23 Solid Cable
- 3 1095A 4/24 Solid Cordage
- 4 1074D 4/24 Stranded Cordage
- 5 1074C 2/24 Stranded Cordage
- 6 1074C 1/24 Stranded Cordage
- 7 2071E 4/23 Solid Cable
- 8 1071E 4/23 Solid Cable
- 9 3074E 4/24 Stranded Cordage
- D 3095A 4/24 Solid Cordage
- E 3075A 4/24 Solid Cordage
- F 2095A 4/24 Solid Cordage
- G 1091A 4/23 Solid Cable
- H 2091A 4/23 Solid Cable
- I 3091A 4/23 Solid Cable
- J 1295A 4/24 Solid Cordage
- K 2295A 4/24 Solid Cordage
- L 3295A 4/24 Solid Cordage
- M 1091B 4/23 Solid Cable
- N 1061L 4/24 Solid Cable
- O 2091B 4/23 Solid Cable
- P 1089A 4/24 Solid Cordage
- Q 2089A 4/24 Solid Cordage
- R 3089A 4/24 Solid Cordage
- S 1088A 4/23 Solid Cable
- T 2088A 4/23 Solid Cable
- U 3088A 4/23 Solid Cable
- V 1291A 4/23 Solid Cable
- W 3091B 4/23 Solid Cable
- X 1095B 4/24 Solid Cordage
- Y 2095B 4/24 Solid Cordage
- Z 3095B 4/24 Solid Cordage

Modular Jack Color

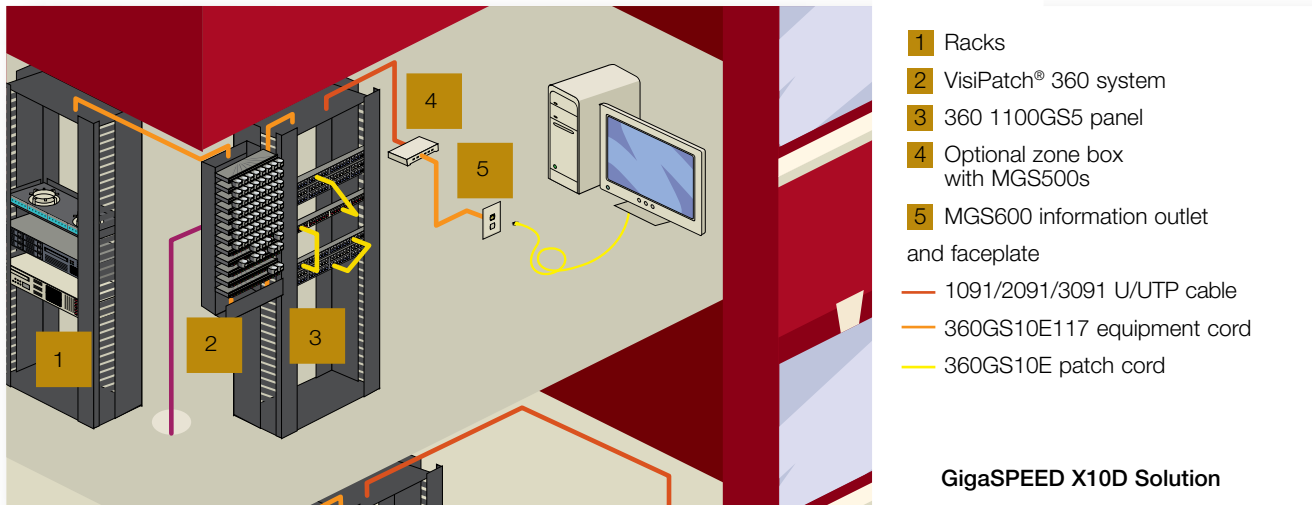
- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Unit of Measure

F Feet
M Meters

Examples:
CPCSSX2-02F007
CPC3312-03F007

GigaSPEED® X10D Solution Exceeding Category 6A



Features and Benefits:

- Performance guaranteed to meet or exceed Category 6A/Class E_A Channel Specifications to 500 MHz
- Performance guaranteed up to 4 connections, up to 100 meters, in a 6-around-1 cable bundle configuration
- Channel optimized using Modal Decomposition Modeling
- Supports IEEE 802.3 10GBASE-T, 1000BASE-T, ATM Forum CB1G plus other legacy LANs and applications (Video, BAS)
- Backward compatible with existing SYSTIMAX cable and connecting hardware

The Category 6A GigaSPEED X10D Solution fully complies with the IEEE 802.3an link segment specifications for 10GBASE-T, in addition to the ANSI/TIA and ISO/IEC Category 6A/Class E_A requirements.

The GigaSPEED X10D Solution will support up to 100 meter channel configuration with at least 4 connections and meet PSANEXT, PSACR-F and Insertion Loss specifications extrapolated to 500 MHz per IEEE 10GBASE-T standard. The Alien Crosstalk performance of the GigaSPEED X10D Solution, which is crucial to successful 10 Gbps transmission, is guaranteed for the complete channel (not just cable) across the entire swept frequency (1-500 MHz) and tested in a stringent 6-around-1 configuration that is representative of worst-case installation conditions.

The GigaSPEED X10D components are fully backward compatible in terms of channel performance and installation techniques to existing SYSTIMAX U/UTP solutions. The innovative cable design, coupled with connectors, follow similar termination procedures as previous generations.

The GigaSPEED X10D Solution is backed by the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when installed and registered by an authorized BusinessPartner.

SYSTIMAX 360 GigaSPEED X10D products include:

- 4-Pair 1091/2091/3091 U/UTP Cables
- SYSTIMAX 360 4-Pair 1291/2291/3291 F/UTP Cables
- 360 1100GS5 Patch Panels
- 360 PATCHMAX® GS5 Patch Panels
- SYSTIMAX Modular Patch Panels
- 360 MGS600 Information Outlets
- MFP520 Equipment Information Outlets
- 360GS10E Patch and Workstation Cords
- VisiPatch 360 System



GigaSPEED® X10D U/UTP Specifications

SYSTIMAX GigaSPEED X10D Category 6A Guaranteed Channel Performance

Guaranteed Performance Specifications for 4-Connection GigaSPEED X10D U/UTP Channels¹

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

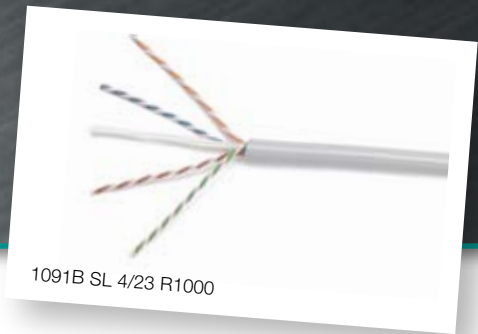
Guaranteed Channel Performance Specifications for 4-Connection GigaSPEED X10D U/UTP Systems

Frequency (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)	PSNEXT (dB)	PSACR-N (dB)	ACR-F (dB)	PSACR-F (dB)	Return Loss (dB)	Delay (ns)	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		31.3		20.0	19.0	7.2	546	40
400.0	42.3	51.0	53.25	25.0	29.0	30.6		29.1		17.5	16.5	6.0	546	40
500.0	47.8	49.5	51.75	23.0	27.0	28.9		27.3		15.5	14.5	6.0	546	40

Guaranteed Channel Performance Margin for registered SYSTIMAX installations performed by a SYSTIMAX BusinessPartner in accordance with the GigaSPEED X10D Design and Installation guidelines.

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 (4 connections in a channel) for the length up to 100 meters.

SYSTIMAX 360™ GigaSPEED® X10D 1091 Non-Plenum U/UTP Cable



The diameter of the 91 Series cables has been reduced making it the smallest Category 6A solution on the market. Using SYSTIMAX's innovative Optimized Material Technology (OMT) platform, not only reduces the cable's core, but optimizes transmission performance, giving network managers increased rack space and airflow without succumbing to alien crosstalk.

The redesigned 91 Series cable is packaged in CommScope's We Tote Box®; making it the only Category 6A cable offered in a box.

Features and Benefits:

- Outer diameter 0.285 in. (7.24 mm)
- Packaged in CommScope's We Tote box
- OMT resolves NEXT and ELFEXT issues required for accurate transmission using all four pairs
- 4 pair construction with finned inner jacket surface and isolator member provides the extra margin of performance required for high band-width applications
- Non-Plenum construction
- ETL Listed - 1091 Riser rated CMR and CMG
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 34.7 lbs/1,000 ft (15.8 kg)
Nominal Jacket Thickness: 0.05 in (1.27 mm)
Nominal Outside Diameter: 0.285 in (7.24 mm)
Maximum Pulling Tension: 25 lbs (11.3 kg)
Installation Temperature: 32°F to 140°F (0°C to 60°C)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

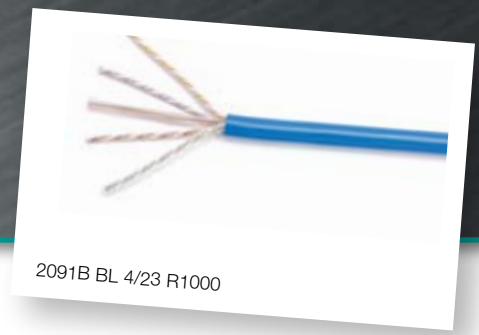
Electrical Specifications:

NVP (fastest pair @ 10 MHz): 65%
Maximum DC Resistance: 8.00 Ohms/100 m
Maximum DC Resistance Unbalance: 4%
Maximum Mutual Capacitance at 1 kHz: 6.0 nF/100 m
Minimum Dielectric Strength: 1500 VAC or 2500 VDC
Voltage Safety Rating: 300 Volts per NEC 800.179
ETL: CMR, CMG

Product Number	Pair Count	Color	Length	Package	Material ID
1091B BK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	760105742
1091B BK 4/23 W1000	4	Black	1,000 ft (305 m)	We Tote Box	760107086
1091B BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760105759
1091B BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760105833
1091B BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760107094
1091B GR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760105775
1091B GR 4/23 W1000	4	Green	1,000 ft (305 m)	We Tote Box	760107110
1091B LB 4/23 R1000	4	Light Blue	1,000 ft (305 m)	Reel	760105767
1091B LB 4/23 W1000	4	Light Blue	1,000 ft (305 m)	We Tote Box	760107102
1091B OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	760105783
1091B OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	760107128
1091B RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760105791
1091B RD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	760107136
1091B SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760105114
1091B SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760105858
1091B SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	760107078
1091B WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760105871
1091B WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760105841
1091B WH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	760107144
1091B YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760105825
1091B YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760107151

Copper Reference
GigaSPEED X10D
 GigaSPEED XL
 PowerSUM
 InstaPATCH Cu
 VialPatch
 Additional Copper Connectivity
 Coaxial Cable

SYSTIMAX 360™ GigaSPEED® X10D 2091 Plenum U/UTP Cable



2091B BL 4/23 R1000

The diameter of the 91 Series cables has been reduced making it the smallest Category 6A solution on the market. Using SYSTIMAX's innovative Optimized Material Technology (OMT) platform, not only reduces the cable's core, but optimizes transmission performance, giving network managers increased rack space and airflow without succumbing to alien crosstalk.

The redesigned 91 Series cable is packaged in CommScope's We Tote Box®; making it the only Category 6A cable offered in a box.

Features and Benefits:

- Outer diameter 0.285 in. (7.24 mm)
- Packaged in CommScope's We Tote box
- OMT resolves NEXT and ELFEXT issues required for accurate transmission using all four pairs
- 4 pair construction with finned inner jacket surface and isolator member provides the extra margin of performance required for high band-width applications
- Plenum construction
- ETL Listed – 2091 Plenum rated CMP
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 36.8 lbs/1,000 ft (16.7 kg)
Nominal Jacket Thickness: 0.05 in (1.27 mm)
Nominal Outside Diameter: 0.285 in (7.24 mm)
Maximum Pulling Tension: 25 lbs (11.3 kg)
Installation Temperature: 32°F to 140°F (0°C to 60°C)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 65%
Maximum DC Resistance: 8.00 Ohms/100 m
Maximum DC Resistance Unbalance: 4%
Maximum Mutual Capacitance at 1 kHz: 6.0 nF/100 m
Minimum Dielectric Strength: 1500 VAC or 2500 VDC
Voltage Safety Rating: 300 Volts per NEC 800.179
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2091B BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760105338
2091B BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760105965
2091B BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760107201
2091B GR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760105809
2091B GR 4/23 W1000	4	Green	1,000 ft (305 m)	We Tote Box	760107219
2091B OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	760105908
2091B OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	760107227
2091B RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760105924
2091B RD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	760107243
2091B SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760105932
2091B SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760105981
2091B SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	760107250
2091B WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760105940
2091B WH 4/23 W1000	4	White	3,000 ft (914 m)	Reel	760105973
2091B WH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	760107268
2091B YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760105957
2091B YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760107276

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

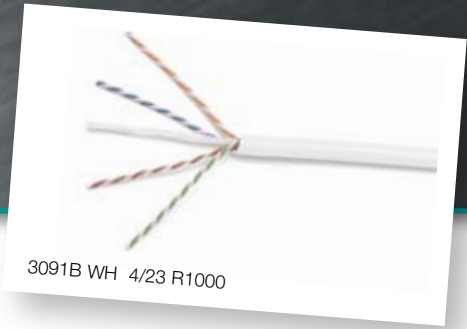
VisiPatch

Additional Copper Connectivity

Coaxial Cable

SYSTIMAX 360™ GigaSPEED® X10D 3091 LSZH U/UTP Cable

3091B WH 4/23 R1000



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The redesigned 91 Series cable is packaged in CommScope's We Tote Box®; making it the only Category 6A cable offered in a box.

Features and Benefits:

- Outer diameter 0.285 in. (7.24 mm)
- Packaged in CommScope's We Tote box
- OMT resolves NEXT and ELFEXT issues required for accurate transmission using all four pairs
- 4 pair construction with finned inner jacket surface and isolator member provides the extra margin of performance required for high band-width applications
- Low Smoke Zero Halogen construction
- IEC Certified - 3091 LSZH rated IEC 60332-3
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 33.9 lbs/1,000 ft (15.4 kg)
Nominal Jacket Thickness: 0.05 in (1.27 mm)
Nominal Outside Diameter: 0.285 in (7.24 mm)
Maximum Pulling Tension: 25 lbs (11.3 kg)
Installation Temperature: 32°F to 140°F (0°C to 60°C)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 65%
Maximum DC Resistance: 8.00 Ohms/100 m
Maximum DC Resistance Unbalance: 4%
Maximum Mutual Capacitance at 1 kHz: 6.0 nF/100 m
Minimum Dielectric Strength: 1500 VAC or 2500 VDC
Voltage Safety Rating: 300 Volts per NEC 800.179
Standards: IEC 60332-3

Product Number	Pair Count	Color	Length	Package	Material ID
3091B BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760106039
3091B BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760106062
3091B BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760107326
3091B GR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760119180
3091B GR 4/23 W1000	4	Green	1,000 ft (305 m)	We Tote Box	760119198
3091B RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760119206
3091B RD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	760119214
3091B SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760106047
3091B SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760106070
3091B SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	760107334
3091B WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760106054
3091B WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760105122
3091B WH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	760107318
3091B YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760119222
3091B YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760119230

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

SYSTIMAX 360™ PATCHMAX® X10D GigaSPEED® GS5 Panels



360 PATCHMAX GS5 48 Port Patch Panel

The GigaSPEED® X10D GS5 panels offer easy cable routing and bundling utilizing the rear cable manager and are available in a 24 port configuration. Panels also support deployment of InstaPATCH® Cu pre-terminated copper and features the elegant SYSTIMAX 360 design.

GS5 panels accept four (4) PATCHMAX GS Distribution Modules which can be rotated forward, allowing front-access to the 110 type IDC terminals for easy cable termination. PATCHMAX GS Distribution Modules feature an innovative termination manager and rear housing which provides easier, faster, more reliable terminations and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Improved rear cable manager makes cable routing and bundling easier
- Supports deployment of InstaPATCH Cu pre-terminated copper
- Available in 24 port (2U) configuration
- Features elegant SYSTIMAX 360 design
- Innovative 2-way mounting and terminating improving installation for limited rear access applications
- Distribution modules can be snapped onto front of panel for easy front access to rear 110 type IDC termination field
- Designed for simplified administration with built-in cord retainer fingers
- Allows all 24 cords to be routed in the same direction
- 1 to 24 port labeling and identification
- Meets 606 labeling standard

Product Number	Detailed Description	Material ID
360-PM-GS5-2U	360 PATCHMAX GS5 24 Port Patch Panel	760111385
360-PM-GS5-DM	360 PATCHMAX GS5 Distribution Module	760111393
360-PM-KIT-2U	360 PATCHMAX Panel Kit - 2U	760108993
360-PM-GS5-2U-48	360 PATCHMAX GS5 48 Port Patch Panel	760117374
360-PM-GS5-DM-12	360 PATCHMAX GS5 Distribution Module	760117390
360-PM-KIT-2U-48	360 PATCHMAX Panel Kit - 2U – 48	760117408

SYSTIMAX 360™ GigaSPEED® X10D 1100GS5 Panels

Product Number	Detailed Description	Material ID
360-1100-GS5-1U	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP 1U Panel Kit, empty	760109017
360-1100-GS5-24	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP Patch Panel, 24 port	760108894
360-1100-GS5-2U	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP 2U Panel Kit, empty	760109009
360-1100-GS5-48	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP Patch Panel, 48 port	760108902
360-1100-GS5-DM	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP Distribution Module	760108910

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

GigaSPEED® X10D 1100GS5 Modular Patch Panel

The GigaSPEED X10D 1100GS5 panel is a 19-inch rack mountable patch panel, designed with either 4 or 8 six-port GS5 distribution modules (DM) in 1U and 2U configurations. The 1100GS5 panel is fully tuned to provide optimal throughput performance when installed as part of the GigaSPEED X10D channel.

The 1100GS5 panel features termination managers and a redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

After the cable jacket is trimmed, the cable pairs are placed in the termination manager. The termination manager functions as an orientation guide and holder for each cable pair. The termination manager with each cable pair in the correct orientation (either 568B or 568A) is attached to the rear housing between the IDCs. Each cable pair is aligned to the correct IDC slots, and the conductors are placed in the slots. After all 24 cables with termination managers are in place and the conductors are in the correct IDC slot, the conductors are terminated and trimmed with the impact tool and 110 blade. An entire row of 24 cables can be placed sequentially; then, all cable conductors are punched-down sequentially, thus allowing traditional cable termination in high performance panels.

Features and Benefits:

- Certified component of an integrated GigaSPEED X10D 10G solution
- Termination managers and IDC housing allow traditional cable termination to high performance panel
- Available in 24- and 48-port configurations featuring universal A/B labeling
- 110 connector terminations on rear of panel allow quick and easy installation of 22 to 24 AWG cable
- Can support network line speeds in excess of 10 Gbps
- Each panel comes ready to install, including front and rear labels
- Backward compatible with Category 6, 5e, 5, and 3 cords and cables; however, optimal performance is achieved when used with GigaSPEED X10D cords and cables
- Qualifies for a 20-Year Extended Product Warranty and Applications Assurance when included in a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Height: 24-Ports: 1.74 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)

Width: 19 in (48.3 cm)

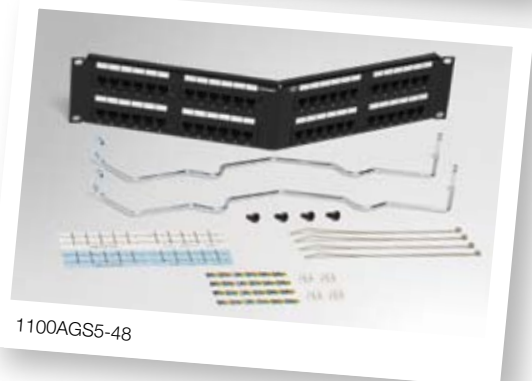
Depth: 1.60 in (4.06 cm)



1100GS5-24



1100GS5-DM



1100AGS5-48



Product Number	Detailed Description	Modules/Ports	Material ID
1100GS5-24	1100GS5 24-Port Panel	24 Ports	760051151
1100GS5-48	1100GS5 48-Port Panel	48 Ports	760051169
1100AGS5-24	1100GS5 24-Port Panel (Angled)	24 Ports	760051177
1100AGS5-48	1100GS5 48-Port Panel (Angled)	48 Ports	760051185
1100GS5-DM	1100GS5-DM Distribution Module Kit	6 Ports	760051193
1100PM5-TM	Termination Manager Kit	24 Ports	760051201
1100GS5-24 (empty)	1100GS5 1U Panel Kit (empty)	4 modules	760092775
1100GS5-48 (empty)	1100GS5 2U Panel Kit (empty)	8 modules	760092817
1100AGS5-24 (empty)	1100AGS5 1U Panel Kit (empty)	4 modules	760092825
1100AGS5-48 (empty)	1100AGS5 2U Panel Kit (empty)	8 modules	760092833

GigaSPEED® X10D PATCHMAX® GS5 Modular Patch Panel



PM-GS5-48

The SYSTIMAX GigaSPEED X10D PATCHMAX GS5 panel is a 19-inch rack mountable patch panel, designed to accept 4 or 8 six-port GS3 or GS5 Distribution Modules (DM), which can be rotated forward, allowing front-access to the 110 type IDC terminals for easy cable termination. Built-in horizontal patch cord management brackets provide support for patch cords as well as a holder for the DM modules during installation. This modular approach offers total flexibility in selecting the required copper and fiber adapters. In addition, it provides for fiber and SYSTIMAX GigaSPEED X10D and XL copper solutions since both fiber and copper modules can fit into the same panel kit.

The PATCHMAX GS5 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Individual six-port distribution modules can be removed, snapped onto the front cord management rings and pivoted forward for easy front access to the rear 110 type IDC termination field making installation easy
- Designed for simplified administration with built-in cord and cable retainer rings, color-coded labels and icons
- Termination manager and redesigned IDC housing allow traditional cable termination to high performance panel
- Available in 24- and 48-port configurations featuring universal A/B labeling
- Can support network line speeds in excess of 10 Gbps
- Qualifies for a 20-year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Dimensions:

PM-GS5-24:

19.0 x 3.53 x 8.13 in (48.26 x 8.90 x 20.50 cm) -
2 Rack Unit Universal A/B labeling

PM-GS5-48:

19.0 x 5.29 x 8.13 in (48.26 x 13.34 x 20.50 cm) -
3 Rack Unit Universal A/B labeling

Plastic Materials: High-impact, flame retardant, UL-rated 94V-0 thermoplastic

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Materials: Front Panel: Black powder painted steel

Nominal Solid Conductor Diameter: 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)

Nominal Stranded Conductor Diameter: 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)

Insulation Size: 0.042 in (1.08 mm) (22 to 24 AWG) Maximum DOD

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum

Current Rating: 1.5 A at 68°F (20°C)

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

UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
PM-GS5-24	PATCHMAX GS5 24 Port Patch Panel	24 Ports	760060913
PM-GS5-48	PATCHMAX GS5 48 Port Patch Panel	48 Ports	760060921
PM-GS5-2U (empty)	PATCHMAX GS5 2U Blank Panel Kit (empty)	24 Ports	760060939
PM-GS5-3U (empty)	PATCHMAX GS5 3U Blank Panel Kit (empty)	48 Ports	760060947
PM-GS5-DM	PATCHMAX GS5 Distribution Module	6 Ports	760060954
1100PM-TM	Termination Manager Kit	24 Ports	760051201

SYSTIMAX 360™ GigaSPEED® X10D MGS600 Series Outlet

The MGS600 Information Outlet is the latest result of many years of continuous product development at CommScope Labs. Just like previous MGS information outlets, the MGS600 snaps into standard CommScope M-Series faceplates, surface-mount boxes, and modular panels, but the patented compensation technology on the inside sets this outlet apart. Patented straddled pair cross-over techniques combined with printed wiring board technologies, all tuned to SYSTIMAX 360 10G Cables and Cords bring our customers unsurpassed 10G channel performance with less restrictions than specified by industry standards.



MGS600-262

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801: 2002 Class E_A and ANSI/TIA-568-C.2 Category 6A when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- Patented crossing of straddling pair contacts enables efficient alien crosstalk reduction in the channel
- Snaps into standard CommScope M-Series faceplates, surface-mount boxes, consolidation point boxes, and SYSTIMAX Modular Panels. Can also be mounted either at 90 degrees (straight) or 45 degrees (angled) in any SYSTIMAX faceplate
- Universal design and label supports both T568 A & B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Optional Plastic Icons (M61A) and Dust Covers (M20A) available in several colors
- Optimal performance is achieved when using the GigaSPEED X10D 360GS10E patch cords; however, the MGS600 is fully backwards compatible
- UL® listed
- Can support network line speeds up to at least 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire (7 strands)

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum

Current Rating: 1.5 A at 68°F (20°C)

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

UL and cUL Listed

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

SYSTEMAX 360

Copper Reference
GigaSPEED X10D
GigaSPEED XL
PowerSUM
InstaPATCH Cu
VisiPatch
Additional Copper Connectivity
Coaxial Cable

Product Number	Color	Qty/Pkg	Material ID
MGS600-003	Black	1	760092361
MGS600-112	Orange	1	760092379
MGS600-123	Yellow	1	760092387
MGS600-226	Green	1	760092403
MGS600-246	Ivory	1	760092411
MGS600-262	White	1	760092429
MGS600-270	Gray	1	760092437
MGS600-317	Red	1	760092445
MGS600-318	Blue	1	760092452
MGS600-361	Violet	1	760092460
MGS600-148	Almond	1	760092478
MGS600-BULK-003	Black	100	760110957
MGS600-BULK-246	Ivory	100	760110965
MGS600-BULK-262	White	100	760110973
MGS600-BULK-318	Blue	100	760110981



GigaSPEED® X10D MGS500 Series Outlet

The MGS500 Information Outlet, the latest result of many years continuous product development at CommScope Labs, features patented crosstalk cancellation and compensation techniques. The MGS500 connectivity, consistent at the panels and outlet, exhibit huge improvements in high frequency crosstalk enabled via PWB (Printed Wiring Board) materials and compensation technology. In addition, large improvements in connector Alien Crosstalk mitigation have been achieved through new materials and PWB compensation enhancements. This connector design excellence has been made possible by the CommScope Labs Connector Field Pattern Modeling technology, coupled with the system level MDM tool enabling high frequency cross coupling effects to be eliminated.



MGS500-318

Features and Benefits:

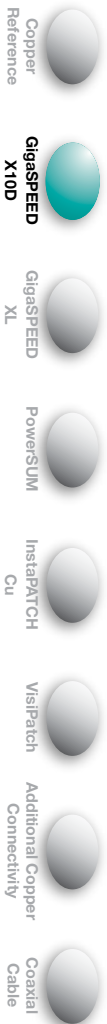
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Snaps into standard CommScope faceplates, surface-mount boxes, consolidation point boxes, M3000 and M2000 Modular Panels. Can also be mounted either at 90 degrees (straight) or 45 degrees (angled) in any SYSTIMAX faceplate
- Universal design and label supports both T568A and T568B wiring
- Snap-on icons provided in strip of three: Computer Symbol, DATA and GS, and are also sold separately in packages of 25, product number M61A
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel
- Package quantity 100; Bulk Pack includes one handheld terminating device (760034215)

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
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
UL and cUL Listed



- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

Product Number	Color	Qty/Pkg	Material ID
MGS500-003	Black	1	760023556
MGS500-318	Blue	1	760023648
MGS500-112	Orange	1	760023564
MGS500-226	Green	1	760023598
MGS500-123	Yellow	1	760023572
MGS500-361	Violet	1	760023655
MGS500-270	Gray	1	760023622
MGS500-215	Cream	1	760023580
MGS500-262	White	1	760023614
MGS500-246	Ivory	1	760023606
MGS500-317	Red	1	760023630
MGS500-BLK-003	Black	100	760042002
MGS500-BLK-246	Ivory	100	760042010
MGS500-BLK-262	White	100	760042028
MGS Cover with Strain Relief	Clear	25	760056069
MGS500-BLK-318	Blue	100	760042036



SYSTIMAX

SYSTIMAX 360™ GigaSPEED® X10D 360GS10E Patch Cords

The high performance 360GS10E patch cord family has a patented plug design featuring an anti-snag latch for easy and rapid field identification. Via the innovative plug design, the 360GS10E plug exhibits a dramatic reduction in variation of performance. Double-ended and single-ended patch cord constructions are available in plenum, non-plenum and low smoke zero halogen designs.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- ETL/cETL listed
- Can support network line speeds up to at least 10 gigabits per second
- Certified component of an integrated GigaSPEED X10D Solution
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Contact Material: Phosphor Bronze
Contact Plating: Gold 50 micro-inch (1.27 microns), nickel 100 micro-inch (2.54 microns)
Insertion Life: 750 minimum
Plug Material: Polycarbonate UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
RoHS Compliant: Yes

Electrical Specifications:

TIA Category: 6A

Safety Certification:

ETL/cETL Listed



SYSTIMAX 360 GigaSPEED®
X10D 360GS10E-L



SYSTIMAX 360 GigaSPEED®
X10D 360GS10E

SYSTIMAX 360™ GigaSPEED X10D 360GS10E Patch Cords

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCSSX2	360GS10E	360GS10E Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSX3	360GS10E-X3	360GS10E 10/100BASE-T 2x3 & 1x4 Crossover Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSX5	360GS10E-X5	360GS10E 1000BASE-T MDI-X Crossover Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSX2	360GS10E117	360GS10E Single-ended Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSUX2	360GS10E-MGS600	360GS10E-MGS600 on 1095B Solid Cordage Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSZ2	360GS10E-L	360GS10E Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSZ3	360GS10E-L-X3	360GS10E 10/100BASE-T 2X3 & 1X4 Crossover Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSZ5	360GS10E-L-X5	360GS10E 1000BASE-T MDI-X Crossover Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSZ2	360GS10E117-L	360GS10E Single-ended Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSUZ2	360GS10E-MGS600-L	360GS10E to MGS600 on 3095B Solid LSZH Cordage Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m

Ordering Material ID Example: CPCSSX2-02F007

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

Copper Reference X10D GigaSPEED XL GigaSPEED XL PowersUM InstaPATCH Cu Additional Copper Coaxial Cable

SYSTIMAX 360

SYSTIMAX 3600

SYSTIMAX 360™ GigaSPEED X10D 360GS10E Plenum Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length
CPCSSY2	360GS10E-P	360GS10E solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCSSY3	360GS10E-P-X3	360GS10E 10/100BASE-T 2x3 & 1x4 Crossover solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCSSY5	360GS10E-P-X5	360GS10E 1000BASE-T MDI-X Crossover solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCS4Y2	360GS10E117-P	360GS10E Single-ended solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCSUY2	360GS10E-MGS600-P	360GS10E-MGS600 on 2095B solid Plenum Cordage Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m

Ordering Material ID Example: **CPCSSY2-0ZF007**

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

SYSTIMAX 360™

GigaSPEED® X10D

MGS600-MGS600

Pre-terminated Cords

The high performance 91B series cables are terminated on MGS600 information outlets on both ends. Each individual cord has been tested for electrical continuity to ensure performance satisfaction. The MGS600-MGS600 Pre-terminated Cords are available in plenum, non-plenum and low smoke zero halogen designs.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- ETL/cETL listed
- Can support network line speeds up to at least 10 gigabits per second
- Certified component of an integrated GigaSPEED X10D Solution
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Copper Reference
GigaSPEED X10D
GigaSPEED XL
PowerSUM
InstaPATCH
Cu
VisiPatch
Additional Copper Connectivity
Coaxial Cable

SYSTIMAX 360™ GigaSPEED® X10D MGS600-MGS600 Pre-terminated Cords

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCUUM2	MGS600-MGS600	MGS600-MGS600 on 1091B Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	1,2,6,7,8,9,C,Z	F,M	15-300 ft / 5-100 m
CPCUUO2	MGS600-MGS600-P	MGS600-MGS600 on 2091B Plenum Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	6,7,8,9,C,Z	F,M	15-300 ft / 5-100 m
CPCUUW2	MGS600-MGS600-L	MGS600-MGS600 on 3091B LSZH Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	8,C,Z	F,M	15-300 ft / 5-100 m

Ordering Material ID Example: CPCUUM2-1ZF050

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

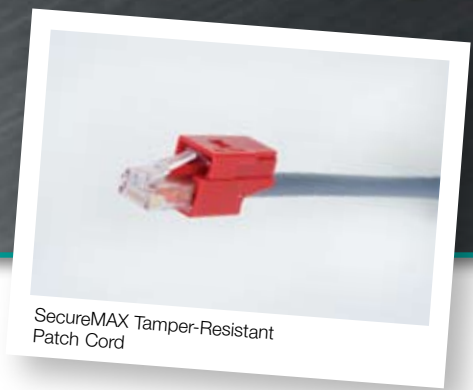
Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

SecureMAX Tamper Resistant Patch Cord



SecureMAX Tamper-Resistant Patch Cord

360GS10E-SM SecureMAX Tamper-Resistant Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
*CPCRRX2	360GS10E-SM	SecureMAX 360GS10E Tamper-resistant Patch Cord (Double side lock)	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
*CPCRSX2	360GS10E-SM-360GS10E	SecureMAX 360GS10E Tamper-resistant Patch Cord (Single side lock)	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m

Ordering Material ID Example: **CPCRRX2-03F007**

**Not available for sale in Europe, Australia or Japan*

Tamper Resistant Patch Cord Accessories



SM-CL and SM-CL-KEY

Product Number	Detailed Description	Material ID
SM-CL	SecureMAX Patch Cord Lock	760099424
SM-CL-KEY	SecureMAX Patch Cord Lock Key with key chain	760099432
SM-CL-KIT	SecureMAX Patch Cord Lock Kit (25 locks, 2 keys)	760102145

*SM-CL is compatible with SYSTIMAX GS8E, GS10E, GSXP and 360GS10E plugs. SM-CL can be mounted on plug in the field without disturbance to live connection. Lock and Key are available in red only.

*Not available for sale in Europe, Australia and Japan. Contact Product Management for availability outside of North America.

- Copper Reference
- GigaSPEED X10D**
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

GigaSPEED® X10D F/UTP Specifications

SYSTIMAX GigaSPEED X10D F/UTP Channel Performance

The SYSTIMAX GigaSPEED X10D F/UTP cabling system is designed specifically to meet and exceed the ISO/IEC Class E_A cabling specification. A major breakthrough of the SYSTIMAX GigaSPEED X10D F/UTP Solution over other legacy F/UTP solutions is vastly improved performance across the complete frequency spectrum from 1 to 500 MHz.

By utilizing the unique design tools available to CommScope Labs, the technologies implemented in the SYSTIMAX GigaSPEED X10D F/UTP Solution are capable of incorporating the F/UTP technology while maintaining pair balance without degrading the internal channel transmission performance. Superior crosstalk performance, improved Insertion Loss performance and guaranteed channel performance up to 500 MHz are the key enhancements that set the SYSTIMAX GigaSPEED X10D F/UTP Solution apart from other F/UTP solutions on the market today.

SYSTIMAX GigaSPEED X10D F/UTP Performance Specifications

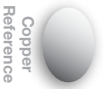
Channel Performance Specifications for the GigaSPEED X10D F/UTP Solutions

Freq (MHz)	Insertion Loss (dB)	PS ANEXT (dB)	Avg. PS ANEXT (dB)	PS AACR-F (dB)	Avg. PS AACR-F (dB)	NEXT (dB)	ACR (dB)	PS NEXT (dB)	PS ACR (dB)	ACR-F (dB)	PS ACR-F (dB)	Return Loss (dB)
1	2.3	67.0	69.25	67.0	67.0	65.0	61.0	62.0	58.0	63.3	60.3	19.0
4	4.2	67.0	69.25	65.0	63.0	63.0	58.9	60.5	56.4	51.2	48.2	19.0
8	5.8	67.0	69.25	58.9	62.9	58.2	52.5	55.6	49.9	45.2	42.2	19.0
10	6.5	67.0	69.25	57.0	61.0	56.6	50.2	54.0	47.6	43.3	40.3	19.0
16	8.2	67.0	69.25	52.9	56.9	53.2	45.1	50.6	42.5	39.2	36.2	18.0
20	9.2	67.0	69.25	51.0	55.0	51.6	42.5	49.0	39.9	37.2	34.2	17.5
25	10.2	66.0	68.25	49.0	53.0	50.0	39.8	47.3	37.1	35.3	32.3	17.0
31.2	11.5	65.1	67.35	47.1	51.1	48.4	37.0	45.7	34.3	33.4	30.4	16.5
62.5	16.4	62.0	64.25	41.1	45.1	43.4	27.1	40.6	24.3	27.3	24.3	14.0
100	20.9	60.0	62.25	37.0	41.0	39.9	19.1	37.1	16.3	23.3	20.3	12.0
200	30.1	55.5	57.75	31.0	35.0	34.8	4.8	31.9	1.9	17.2	14.2	9.0
250	33.9	54.0	56.25	29.0	33.0	33.1	-0.7	30.2	-3.6	15.3	12.3	8.0
300	37.4	52.8	55.05	27.5	31.5	31.7	-5.6	28.8	-8.5	13.7	10.7	7.2
400	43.7	51.0	53.25	25.0	29.0	26.7	-14.0	23.2	-17.0	11.2	8.2	6.0
500	49.3	49.5	51.75	23.0	27.0	28.7	-21.4	25.8	-24.5	9.3	6.3	6.0

Note: values at specific frequencies for information only. Performance shall be met on a swept frequency basis as per the above listed formula.

The SYSTIMAX GigaSPEED X10D F/UTP Solution offers guaranteed channel performance to the above specifications for registered SYSTIMAX Network Infrastructure Solutions installations. Please contact your CommScope representative for a GigaSPEED X10D F/UTP Solution Guide and GigaSPEED X10D F/UTP Design and Installation Guidelines.

* IL and PSANEXT requirement of the proposed TIA-568-B.2-AD10 for the category 6A ScTP cabling are different from the ISO Class E_A requirements. PSANEXT is 2dB more stringent while IL is relaxed to Category 6 level across the entire frequency band. Note that IL is a critical parameter generic to all applications while PSANEXT is specific to IEEE 10GBASE-T. The GigaSPEED X10D F/UTP solution incorporates the best of these proposed standards. The GigaSPEED X10D F/UTP channel meets or exceeds all ISO Class E_A requirements as well as TIA Cat-6A PSANEXT requirement.



GigaSPEED® X10D F/UTP Cable



The SYSTIMAX GigaSPEED X10D 91 Series F/UTP Cable exhibits excellent crosstalk performance, enabled via patented high-technology pair isolator (improves pair separation and also cable flexibility) and an optimized twist and strand scheme, dramatically enhancing high-frequency performance using the CommScope Labs Cable Twist Accuracy Technology.

The GigaSPEED X10D 91 Series F/UTP Cables have been optimized with the GigaSPEED X10D F/UTP connectors and cords to minimize internal channel crosstalk, and also crosstalk between channels in close proximity. The 91 Series Cables incorporate a round smooth shape that speeds the handling and termination process. The cables have been designed to optimize the balance of the F/UTP solution. The 91 Series F/UTP Cables have been specified out to 500 MHz to support high bandwidth applications operating at 10 Gbps.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- 4-pair construction with aluminum foil tape and isolator center member provides extra margin of performance required for high-bandwidth applications
- 1291 Non-Plenum cable is ETL listed as CMR and CMG. This cable is constructed with a single jacket
- 2291 Plenum cable* is ETL listed as CMP. This cable is constructed with a single jacket
- 3291 LSZH cable meets the requirements of IEC 60332-3. This cable is constructed with a single jacket
- ETL Listed - 1291 Riser rated CMR and CMG
- IEC Certified - 3291 LSZH rated IEC 60332-3
- Can support network line speeds up to at least 10 Gbps
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP channel

*call for availability

Physical Specifications:

	1291	2291	3291
Nominal Jacket Outside Diameter:	0.296 in (7.5 mm)	0.290 in (7.4 mm)	0.296 in (7.5 mm)
Nominal Jacket Thickness:	0.020 in (0.51 mm)	0.016 in (0.41 mm)	0.020 in (0.51 mm)
Maximum Pulling Tension:	25 lbs (11.3 kg)	25 lbs (11.3 kg)	25 lbs (11.3 kg)
Nominal Cable Weight:	35 lbs/1,000 ft (18.3 kg)	42 lbs/1,000 ft (17.4 kg)	35 lbs/1,000 ft (18.3 kg)
Installation Temperature:	32°F to 140°F (0°C to 60°C)	32°F to 140°F (0°C to 60°C)	32°F to 140°F (0°C to 60°C)
Operating Temperature:	-4°F to 140°F (-20°C to 60°C)	-4°F to 140°F (-20°C to 60°C)	-4°F to 140°F (-20°C to 60°C)
Gauge:	23 AWG	23 AWG	23 AWG

Electrical Specifications:

	1291	2291	3291
Characteristic Limit/100 m			
NVP:	69%	72%	69%
Conductor Resistance:	8.0 Ohms/100 m	8.0 Ohms/100 m	8.0 Ohms/100 m
Resistance Unbalance:	3%	3%	3%
Mutual Capacitance:	5.6 nF	5.6 nF	5.6 nF
Dielectric Strength:	1500 VAC or 2500 VDC	1500 VAC or 2500 VDC	1500 VAC or 2500 VDC
Voltage Safety Rating:	300 Volts per NEC 800.179	300 Volts per NEC 800.179	300 Volts per NEC 800.179
ETL:	CMR, CMG	CMP	
Standards:			IEC 60332-3-22, IEC 61034, IEC 60754-2

Non-Plenum

Product Number	Detailed Description	Color	Material ID
1291B BL 4/23 R1000	Non-Plenum	Blue	760081364
1291B GR 4/23 R1000	Non-Plenum	Green	760081372
1291B OR 4/23 R1000	Non-Plenum	Orange	760081380
1291B SL 4/23 R1000	Non-Plenum	Slate	760081398
1291B WH 4/23 R1000	Non-Plenum	White	760081406

Plenum

Product Number	Detailed Description	Color	Material ID
2291B BL 4/23 R1000	Plenum Cable	Blue	760122630
2291B SL 4/23 R1000	Plenum Cable	Slate	760122655
2291B WH 4/23 R1000	Plenum Cable	White	760122648

Low Smoke Zero Halogen

Product Number	Detailed Description	Color	Material ID
3291B BL 4/23 R1000	LSZH Cable	Blue	760081315
3291B WH 4/23 R1000	LSZH Cable	White	760081323

Copper Reference

GigASPEED X10D

GigASPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

GigaSPEED® X10D F/UTP Information Outlet



MFP520

The SYSTIMAX GigaSPEED X10D MFP520 Information Outlet is the latest result of many years of continuous product development at CommScope Labs. The MFP520 features patent-pending crosstalk cancellation and compensation techniques. A unique opaque aqua-colored inner tab identifies the unparalleled compensation technology.

The MFP520 information outlet, used throughout the GigaSPEED X10D F/UTP channel, exhibits extended frequency crosstalk suppression enabled via innovative Printed Wiring Board (PWB) compensation technologies. The MFP520 incorporates a metallized body and capsule, plus an innovative grounding connection to ensure consistent bonding performance.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- Snaps into most CommScope faceplates, surface-mount boxes, consolidation point boxes and SYSTIMAX M3200 panels
- Universal design and label supports both T568A and T568B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cables
- Black icons provided in strip of three: VOICE, DATA and BLANK, and are also sold separately in packages of 25, available in several colors, product number M61K
- Optimal performance is achieved when using the GigaSPEED X10D G10FP patch cords
- UL® listed
- Can support network line speeds up to at least 10 Gbps
- Certified component of an integrated GigaSPEED X10D F/UTP Solution
- Qualifies for the SYSTIMAX 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP Channel

Physical Specifications:

Width: 0.80 in (20 mm)
Length: 1.61 in (41 mm)
Depth: 0.82 in (21 mm)
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Jack Wires: Copper alloy, 1.27 µm lubricated gold plating over 2.54 µm nickel underplate
Connectors: Copper alloy, 2.54 µm bright solder over 2.54 µm nickel underplate
Insertion Life: >750 insertions of an FCC 8 position telecommunications plug
Min. Contact Force: 100 g using FCC approved modular plug
Min. Plug Retention Force: 133 N
Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

Min. Insulation Resistance: 500 MΩ
Min. Dielectric Withstand Voltage: 1000 V DC or AC peak (contact to contact @ 60 Hz)
Min. Dielectric Withstand Voltage: 1500 V DC or AC peak
Max. Contact Resistance: 100 mΩ
Max. Contact Resistance Variation: ≤ 20 mΩ
Current Rating @ 20°C: 1.5 A

Product Number	Detailed Description	Material ID
MFP520	F/UTP Information Outlet	760077032

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

GigaSPEED® X10D F/UTP Modular Patch Cord

SYSTIMAX G10FP F/UTP Modular Patch Cords are for use at both ends of a SYSTIMAX® GigaSPEED® X10D F/UTP channel. Along with cable and patching hardware, CommScope Labs has characterized the performance of these cords in thousands of different channel configurations using the Modal Decomposition Modeling (MDM) tool.



The high performance G10FP modular patch cord family has a patented plug design featuring a distinctive metallized construction, low profile rear housing and anti-snap latch for easy and rapid field identification. The G10FP plug exhibits dramatic reduction in performance variation via an innovative design. Together with high precision manufacturing, this provides the electrical performance needed to deliver the SYSTIMAX GigaSPEED X10D F/UTP Solution.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to at least 10 Gbps
- Certified component of an integrated GigaSPEED X10D F/UTP Solution
- Qualifies for the SYSTIMAX 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP channel

Physical Specifications:

Operating Temperature Range: 14° F to 140° F (-10° C to 60° C)
Contact Stability: 20 mΩ max. change
Insertion Life: 750 insertions
Contacting Plating: 1.27μ Gold over 2.540 μm Nickel
RoHS Compliant: Yes

Electrical Specifications:

TIA: category 6A

Safety Certifications:

ETL/cETL Listed

G10FP GigaSPEED X10D F/UTP Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCGGJ2	G10FP	G10FP on 1295 solid F/UTP Cordage, F/UTP Modular Patch Cord	0	1,2,3,8,9	F,M	3-300 ft / 1-100 m
CPCG4J2	G10FP117	G10FP Single-ended solid F/UTP Cordage, F/UTP Modular Patch Cord	0	1,2,3,8,9	F,M	3-300 ft / 1-100 m
CPCGQJ2	G10FP-MFP520	G10FP to MFP520B on 1295 solid F/UTP Cordage Zone Extension Cord	0	1,2,3,8,9	F,M	3-300 ft / 1-100 m
CPCGGK2	G10FP-P	G10FP on 2295 solid Plenum F/UTP Cordage, F/UTP Modular Patch Cord	0	3,8,Z	F,M	3-300 ft / 1-100 m
CPCG4K2	G10FP117-P	G10FP Single-ended solid Plenum F/UTP Cordage, F/UTP Modular Patch Cord	0	3,8,Z	F,M	3-300 ft / 1-100 m
CPCGQK2	G10FP-MFP520-P	G10FP to MFP520B on 2295 solid Plenum F/UTP Cordage Zone Extension Cord	0	3,8,Z	F,M	3-300 ft / 1-100 m
CPCGGL2	G10FP-L	G10FP on 3295 solid LSZH F/UTP Cordage F/UTP Modular Patch Cord	0	8	F,M	3-300 ft / 1-100 m
CPCG4L2	G10FP117-L	G10FP Single-ended solid LSZH F/UTP Cordage F/UTP Modular Patch Cord	0	8	F,M	3-300ft / 1-100m
CPCGQL2	G10FP-MFP520-L	G10FP-MFP520B on 3295 solid LSZH F/UTP Cordage Zone Extension Cord	0	8	F,M	3-300 ft / 1-100 m
CPCQQV2	MFP520-MFP520	MFP520B to MFP520B on 1291 F/UTP Cable Pre-terminated Cord	0	8,C,Z	F,M	50-300ft / 15-100m

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

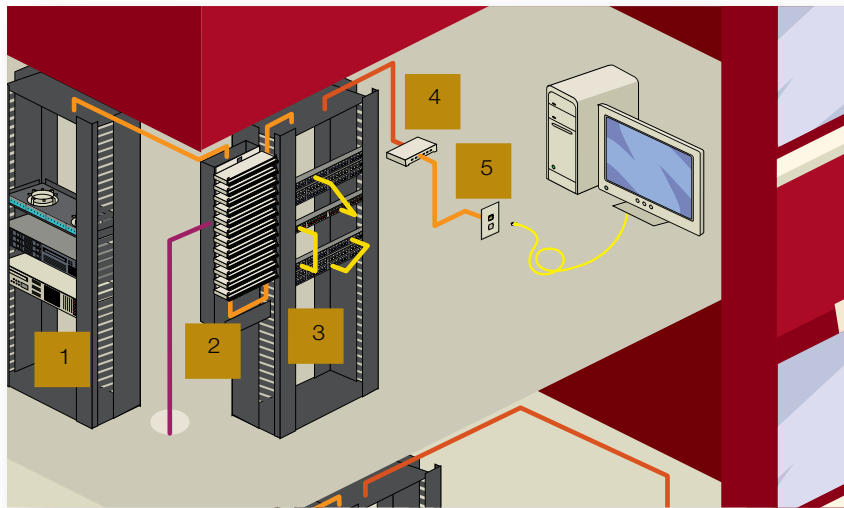
VisiPatch

Additional Copper Connectivity

Coaxial Cable

GigaSPEED® XL Solution Exceeding Category 6

- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL**
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable



- 1 Racks
- 2 360 VisiPatch System
- 3 1100GS3 PATCHMAX GS3/iPatch modular patch panels
- 4 Optional zone box with MGS400s
- 5 MGS400 outlet and faceplate
- 1071/2071/3071 U/UTP cable
- GS8E117 equipment cord
- GS8E patch cord

GigaSPEED XL 7 Solution

Features and Benefits:

- Performance guaranteed to meet or exceed Category 6/Class E Channel Specifications to 250 MHz
- Performance guaranteed up to 6 connections in any length channel configuration up to 100 meters
- Channel optimized using Modal Decomposition Modeling
- Supports IEEE 802.3 1000BASE-T, TIA-854-A 1000BASE-TX, ATM Forum CB1G plus other legacy LANs and applications (Video, BAS)
- Backward compatible with existing SYSTIMAX cable and connecting hardware

SYSTIMAX channels comprised of GigaSPEED XL passive products are capable of delivering potentially in excess of 1.2 Gbps to the workstation in accordance with application standards and are eligible for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance.

SYSTIMAX 360 GigaSPEED XL products include:

- 4-Pair 1071/2071/3071 U/UTP Cables
- PATCHMAX GS3 and 1100GS3 Patch Panels
- SYSTIMAX Modular Patch Panels
- MGS400 Telecommunications Outlets
- GS8E Patch and Workstation Cords
- VisiPatch 360 System
- VisiPatch System

GigaSPEED® XL7 Specifications

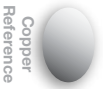
SYSTIMAX GigaSPEED XL7 Category 6 Guaranteed Channel Performance

Guaranteed Performance Specifications for GigaSPEED XL7 Solution

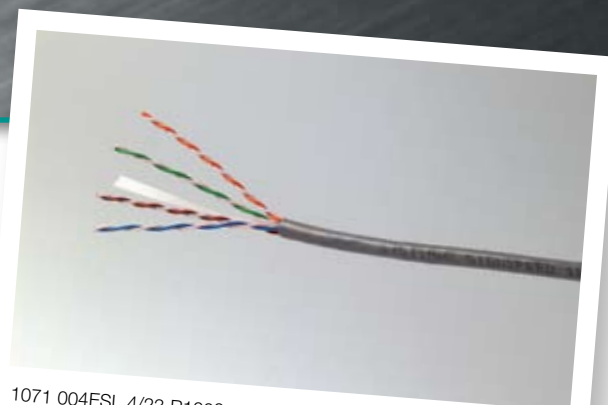
Electrical Parameter (1 - 250 MHz)	Guaranteed Channel Margins to Category 6/Class E ANSI/TIA-568-C.2 and ISO 11801 Edition 2.0
Insertion Loss	5.0 %
NEXT	6.0 dB
PSNEXT	7.5 dB
ELFEXT	6.0 dB
PSELFEXT	8.0 dB
Return Loss	4.0 dB

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)	Delay (ns)	Delay Skew (ns)
1.0	2.0	71.0	69.0	69.5	67.5	69.3	68.3	23.0	580	30
4.0	3.8	69.0	65.2	68.0	64.2	57.2	56.2	23.0	562	30
8.0	5.4	64.2	58.8	63.1	57.7	51.2	50.2	23.0	557	30
10.0	6.0	62.6	56.6	61.5	55.5	49.3	48.3	23.0	555	30
16.0	7.6	59.2	51.6	58.1	50.4	45.2	44.2	22.0	553	30
20.0	8.6	57.6	49.1	56.5	47.9	43.2	42.2	21.5	552	30
25.0	9.6	56.0	46.4	54.8	45.2	41.3	40.3	21.0	551	30
31.25	10.8	54.4	43.6	53.2	42.4	39.4	38.4	20.5	550	30
62.5	15.6	49.4	33.7	48.1	32.4	33.3	32.3	18.0	549	30
100.0	20.2	45.9	25.7	44.6	24.3	29.3	28.3	16.0	548	30
200.0	30.0	40.8	10.8	39.4	9.4	23.2	22.2	13.0	547	30
250.0	34.1	39.1	5.0	37.7	3.5	21.3	20.3	12.0	546	30

Note: The table provides reference values only. All parameters comply with the governing equations over the entire frequency range. All values and equations apply to worst-case channels utilizing 4-pair 71E series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for any channel lengths up to 100 meters.



GigaSPEED® XL Category 6 1071E Non-Plenum Cable



1071 004ESL 4/23 R1000

The 1071E 4-Pair GigaSPEED XL Cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 6. The 71E GigaSPEED XL cables feature a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

Physical Specifications:

Weight: 25.6 lbs/1,000 ft (38.2 kg/km)
Nominal Jacket Thickness: 0.022 in (0.56 mm)
Nominal Outside Diameter: 0.232 in (5.89 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 6
 ISO/IEC 11801: 2002 (Edition 2) Class E
 CENELEC EN50173: 2002 (Edition 2) Category 6
ETL: CMR

Product Number	Pair Count	Color	Length	Package	Material ID
1071E BK 4/23 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	700212129
1071E BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760004697
1071E BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760080671
1071E BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	760004689
1071E GR 4/23 W1000	4	Green	1,000 ft (305 m)	We-Tote Box	760039610
1071E GR 4/23 R3000	4	Green	3,000 ft (914 m)	Reel	760081307
1071E LB 4/23 R1000	4	Light Blue	1,000 ft (305 m)	Reel	700211956
1071E LB 4/23 R3000	4	Light Blue	3,000 ft (914 m)	Reel	760040105
1071E LB 4/23 W1000	4	Light Blue	1,000 ft (305 m)	We-Tote Box	700211964
1071E LL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	700212087
1071E LL 4/23 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	700212095
1071E OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	700212111
1071E OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	700212103
1071E PK 4/23 W1000	4	Pink	1,000 ft (305 m)	We-Tote Box	760011858
1071E PR 4/23 R1000	4	Purple	1,000 ft (305 m)	Reel	760093286
1071E PR 4/23 W1000	4	Purple	1,000 ft (305 m)	We-Tote Box	760039644
1071E RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	700212012
1071E RD 4/23 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	700212020
1071E SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700211923
1071E SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760040097
1071E SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	700211931
1071E SG 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	700212053
1071E SG 4/23 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	700212061
1071E WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700214208
1071E WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760040089
1071E WH 4/23 W1000	4	White	1,000 ft (305 m)	We-Tote Box	700212046
1071E YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	700211980
1071E YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We-Tote Box	700211998

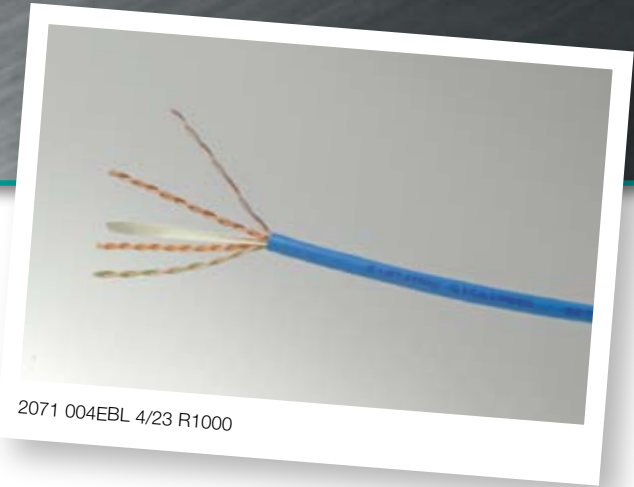
GigaSPEED® XL Category 6 2071E Plenum Cable

The 2071E 4-pair GigaSPEED XL Cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 6. The 71E GigaSPEED XL cables feature a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

The 2071E 4-pair cable is composed of bare solid copper conductors insulated with Fluorinated-Ethylene-Propylene (FEP). The core of twisted pairs is jacketed with a low smoke PVC. It conforms to the low flame, low smoke requirements of the NEC.

Physical Specifications:

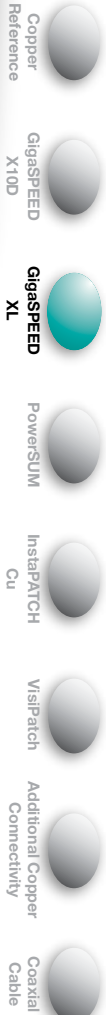
Weight: 29.1 lbs/1,000 ft (13.2 kg/304.8 m)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.224 in (5.69 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG



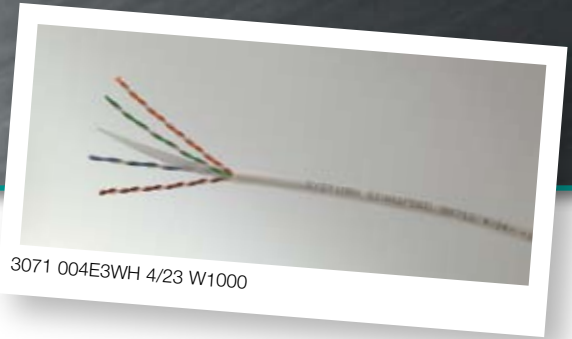
Electrical Specifications:

NVP (fastest pair @ 10 MHz): 71%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 6
 ISO/IEC 11801: 2002 (Edition 2) Class E
 CENELEC EN50173: 2002 (Edition 2) Category 6
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2071E BK 4/23 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	700210230
2071E BK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	700210222
2071E BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	700210081
2071E BL 4/23 R3000	4	Blue	3,000 ft (915 m)	Reel	700210099
2071E BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	700208093
2071E LL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	700210206
2071E LL 4/23 R3000	4	Lilac	3,000 ft (915 m)	Reel	760021212
2071E LL 4/23 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	700210214
2071E OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	700210008
2071E OR 4/23 R3000	4	Orange	3,000 ft (915 m)	Reel	760070367
2071E OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	700210024
2071E PK 4/23 R1000	4	Pink	1,000 ft (305 m)	Reel	760038554
2071E PK 4/23 W1000	4	Pink	1,000 ft (305 m)	We-Tote Box	760011841
2071E PR 4/23 R1000	4	Purple	1,000 ft (305 m)	Reel	760055830
2071E RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	700210248
2071E RD 4/23 R3000	4	Red	3,000 ft (915 m)	Reel	760043158
2071E RD 4/23 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	700210263
2071E SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700210198
2071E SL 4/23 R3000	4	Slate	3,000 ft (915 m)	Reel	760005652
2071E SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	700214372
2071E SG 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	700210156
2071E SG 4/23 R3000	4	Spring Green	3,000 ft (915 m)	Reel	760021204
2071E SG 4/23 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	700210164
2071E WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700210032
2071E WH 4/23 R3000	4	White	3,000 ft (915 m)	Reel	700210057
2071E WH 4/23 W1000	4	White	1,000 ft (305 m)	We-Tote Box	700208101
2071E YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	700210131
2071E YL 4/23 R3000	4	Yellow	3,000 ft (914 m)	Reel	760047555
2071E YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We-Tote Box	700210123



GigaSPEED® XL Category 6 3071E LSZH Cable



The 3071E 4-pair GigaSPEED XL Cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 6. The 71E GigaSPEED XL cables feature a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

3071E cable is composed of solid copper conductors insulated with non-halogen high-density polyethylene and jacketed with a low smoke zero halogen compound.

Physical Specifications:

Weight: 25.0 lbs/1,000 ft (37.3 kg/km)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.231 in (5.87 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 6
 ISO/IEC 11801: 2002 (Edition 2) Class E
 CENELEC EN50173: 2002 (Edition 2) Category 6
 IEC 754 part 2, Non-halogen based on pH and conductivity measurements
 IEC 1034 part 2, Smoke emission
 "E" version cables are tested to IEC 332 part 3 for Flammability and Fire Retardant
 NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3071 004EBK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	700216369
3070A WH 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	700216484
3071E BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760081265
3071E BL 4/23 R4000	4	Blue	4,000 ft (1219 m)	Reel	760077800
3071E BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	700216492
3071E GN 4/23 R1000	4	Green	1,000 ft (914 m)	Reel	760030882
3071E RD 4/23 R3000	4	Red	3,000 ft (914 m)	Reel	760081273
3071E RD 4/23 R4000	4	Red	4,000 ft (1219 m)	Reel	760077818
3071E SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700216419
3071E SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	760095554
3071E WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700216443
3071E WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760081281
3071E WH 4/23 R4000	4	White	4,000 ft (1219 m)	Reel	760077826
3071E WH 4/23 W1000	4	White	1,000 ft (305 m)	We-Tote Box	700216450

- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

Category 6, Outdoor 1571 Cable

The SYSTIMAX Category 6, Outdoor 1571 Cable consists of polyethylene, insulated conductors, tightly twisted into four pairs. The pairs are stranded around a polyolefin fluted center member, filled with a flooding compound and jacketed with a black polyethylene jacket. The 1571 cable is fully compliant with Category 6 requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801.



Physical Specifications:

Weight: 27.3 lbs/1,000 ft (40.6 kg/km)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.250 in (6.35 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -40°F to 140°F (-40°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 62%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: Category 6
 ANSI/TIA-568-C.2
 ISO/IEC 11801

Product Number	Pair Count	Color	Length	Package	Material ID
1571A BK 4/24 R1000	4	Black	1,000 ft (305 m)	Reel	760008888
1571A BK 4/24 R3000	4	Black	3,000 ft (915m)	Reel	760090043

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

SYSTIMAX 360™ GigaSPEED® XL 1100GS3 Panel

Panels are available in 1U and 2U options and feature the elegant SYSTIMAX 360™ design. Enhanced rear cable management features make installation easier over current cable bundling/dressing methods by reducing time and steps to tie down bundles of cable on the rear of the panels.

The SYSTIMAX 360™ “iPatch-ready” copper panels can be upgraded in the field at a later stage with the 360 iPatch Upgrade Kit. The upgrade can be performed without network disruptions, since it does not require the removal of patch cords. The SYSTIMAX 360™ solution offers customers the option to deploy intelligence immediately or in phases, according to their needs and budgetary requirements. By providing a clear strategy that includes an upgradeable product line, CommScope intends to bring intelligence to the masses and raise awareness of the business benefits of intelligent infrastructures.

Features and Benefits:

- Easy cable routing and bundling through improved rear cable management
- Supports deployment of InstaPATCH® Cu pre-terminated copper solutions
- Available in 24 port (1U) and 48 port (2U) options
- Features the elegant SYSTIMAX 360™ design
- Available in iPatch-Ready versions (field upgradable to iPatch without the need to remove patch cords, meaning no network downtime) or factory assembled iPatch versions

360 GigaSPEED® XL 1100GS3 24 Port Panel

360 GigaSPEED® XL 1100GS3 48 Port Panel

360 GigaSPEED 1100GS3 Panels

Product Number	Detailed Description	Material ID	iPatch Ready	iPatch
360-1100-GS3-24	360 1100GS3 24 Port Patch Panel	760093419	Yes	
360-1100-GS3-48	360 1100GS3 48 Port Patch Panel	760093427	Yes	
360-iP-1100-GS3-24	360 iPatch 1100GS3 24 Port Panel	760104984		Yes
360-iP-1100-GS3-48	360 iPatch 1100GS3 48 Port Panel	760105007		Yes
360-1100-GS3-DM	360 1100GS3 Distribution Module	760101576		
360-1100-LABEL	360 1100 Label Kit	760106161		
360-1100-BEZEL-1U	360 1100 Bezel Kit - 1U	760101931		
360-1100-BEZEL-2U	360 1100 Bezel Kit - 2U	760101949		
360-1100-GS3-1U	360 1100GS3 1U Panel Kit (Empty)	760103689		
360-1100-GS3-2U	360 1100GS3 2U Panel Kit (Empty)	760103697		
360-RCM-BM	360 Rear Cable Management (Bar Mountable)	760104398		
360-RCM-RM	360 Rear Cable Management (Rack Mountable)	760104737		
360-iP-UP-KIT-1100-24	360 iPatch Upgrade Kit for 360 1100 24 Port Panel	760104992		
360-iP-UP-KIT-1100-48	360 iPatch Upgrade Kit for 360 1100 48 Port Panel	760105015		

Note: iPatch Ready panels are upgradable to iPatch with the addition of the iPatch Upgrade Kits (360-iP-UP-KIT-1100).

* The Rack Mountable Cable Manager (760104737) can not be mounted in a cabinet. The Bar Mountable Cable Manager (760104398) should be used for mounting in a cabinet.

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

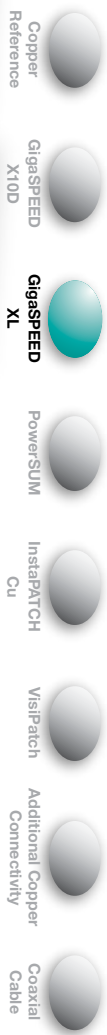
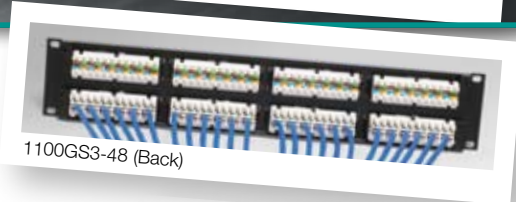
Coaxial Cable

GigaSPEED® XL 1100GS3 Modular Panel

The 1100GS3 Modular Patch Panel is a 19-inch rack or wall mountable 8-pin modular jack panel that accommodates repeated line moves, additions and rearrangements. Installation is easy using proven 110 IDC gas tight terminations in the back with easy-to-read labeling guides. Designed by CommScope Labs as part of the fully tuned and integrated GigaSPEED XL cabling solutions, the 1100GS3 provides an industry standard panel footprint but with many performance and feature extras.

The SYSTIMAX 1100AGS3 panel is angled to allow the cable to flow to each side of the rack. This enables the patch cords to be routed directly into vertical cable managers. It also allows the labeling scheme and port identification to be visible at all times.

The 1100GS3 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.



Features and Benefits:

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568-C.2 Category 6 and ISO/IEC Category 6/Class E specifications
- Vertical and horizontal cord organizers available to improve patch cord management
- Available in 24- and 48-port configurations featuring universal A/B labeling
- 110 connector terminations on rear of panel allow quick and easy installation of 22 to 24 AWG cable
- Attractive black powder covered high-strength steel panel comes equipped with a removable rear mounted cable management bar
- Can support network line speeds in excess of 1 Gbps
- Each panel comes ready to install, including front and rear labels
- Backward compatible with Category 5e, 5 and 3 cords and cables, however optimal performance is achieved when used with GigaSPEED GS8E patch cords
- Certified component of an integrated GigaSPEED XL Solution
- Qualifies for a 20-Year Extended Product Warranty and Applications Assurance when included in a registered SYSTIMAX GigaSPEED channel

Physical Specifications:

Height: 24-Ports: 1.74 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)

Width: 19 in (48.26 cm)

Depth: 1.60 in (4.06 cm)

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation resistance: 500 MΩ minimum

Current rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 6

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

UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS3-24	1100 GS3 24-Port Panel with Term. Mgr.	24 Ports	760062372
1100GS3-48	1100 GS3 48-Port Panel with Term. Mgr.	48 Ports	760062380
1100AGS3-24	1100A GS3 24-Port Panel with Term. Mgr.	24 Ports	760066563
1100AGS3-48	1100A GS3 48-Port Panel with Term. Mgr.	48 Ports	760066571
1100GS3-DM	1100 GS3-Distribution Module	6 Ports	760065771
6-Port PM/1100 Icon Label Holder Kit	6-Port 1100 Icon Label Holder Kit		760001404
1100PM Panel Label kit	1100PM Panel Label Kit	5/Kit (32 labels/sheet)	760072116
1100GS3 Blank Insert	1100GS3 Blank Insert		760018069
1100PM-TM	Termination Manager Kit	24 Ports	760051201

1100GS3 GigaSPEED XL Modular Patch Panel (cont.)

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS3-1U (empty)	1100GS3 1U Panel Kit (empty)	4 Modules	760001776
1100GS3-2U (empty)	1100GS3 2U Panel Kit (empty)	8 Modules	760001784
1100AGS3-1U (empty)	1100AGS3 1U Panel Kit (empty)	4 Modules	760072082
1100AGS3-2U (empty)	1100AGS3 2U Panel Kit (empty)	8 Modules	760092809

Multimedia Distribution Hardware



Multimedia panel product lines are made up of basic panel kits and various copper and fiber modules with LC, SC, ST adapters. The 1100GS3 panel kits have two configurations. The 1U kit supports four modules, and the 2U kit supports eight modules.

There are six adapters in both SC and ST modules and 12 adapters in the LC module.

This modular approach offers total flexibility in selecting the required fiber adapters. In addition, it provides for fiber and GigaSPEED XL copper solutions since both fiber and GigaSPEED XL modules can fit into the same panel kit. This feature also supports existing GigaSPEED XL installations by providing the option of a cost effective upgrade from copper to fiber solutions by simply replacing the copper modules with the fiber modules in conjunction with the cable changes.

The 1100GS3 Multimedia panel kits can be mounted in 19-inch racks for enterprise applications. Panel kits will include cable retainers and fasteners, labels, mounting screws and installation instructions.

Multimedia Panel

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS3-1U (empty)	1100GS3-1U Panel Kit (empty)	4 Modules	760001776
1100GS3-2U (empty)	1100GS3-2U Panel Kit (empty)	8 Modules	760001784
1100AGS3-1U (empty)	1100AGS3-1U Panel Kit (empty)	4 Modules	760072082
1100AGS3-2U (empty)	1100AGS3 2U Panel Kit (empty)	8 Modules	760092809
1100GS5-1U (empty)	1100GS5 1U Panel Kit (empty)	4 Modules	760092775
1100GS5-2U (empty)	1100GS5 2U Panel Kit (empty)	8 Modules	760092817
1100AGS5-1U (empty)	1100GS5 1U Panel Kit (empty)	4 Modules	760092825
1100AGS5-2U (empty)	1100GS5 2U Panel Kit (empty)	8 Modules	760092833

Multimedia Modules

Product Number	Detailed Description	Modules/Ports	Material ID
1100-DM-GS3-RJ45	1100GS3 Copper Module	6 RJ45	760065771
1100-DM-GS3-LS-SC/SC	1100GS3 LazrSPEED SC Module	6 SC	760001792
1100-DM-GS3-LS-ST/ST	1100GS3 LazrSPEED ST Module	6 ST	760001800
1100-DM-GS3-LS-LC/LC	1100GS3 LazrSPEED LC Module	12 LC	760001818
1100-DM-GS3-MM-SC/SC	1100GS3 OptiSPEED SC Module	6 SC	760001826
1100-DM-GS3-MM-ST/ST	1100GS3 OptiSPEED ST Module	6 ST	760001834
1100-DM-GS3-MM-LC/LC	1100GS3 OptiSPEED LC Module	12 LC	760001842
1100-DM-GS3-SM-SC/SC	1100GS3 TeraSPEED SC Module	6 SC	760001859
1100-DM-GS3-SM-ST/ST	1100GS3 TeraSPEED ST Module	6 ST	760001867
1100-DM-GS3-SM-LC/LC	1100GS3 TeraSPEED LC Module	12 LC	760001875
1100-DM-Blank	Blank Module		760018069

SYSTIMAX 360™ GigaSPEED® XL PATCHMAX® GS3 Panels

SYSTIMAX 360™ GigaSPEED® XL PATCHMAX® GS3 panels offer easy cable routing and bundling utilizing the rear cable manager and are available in a 24 port configuration. The 360 PATCHMAX GS3 panels also support deployment of InstaPATCH® Cu pre-terminated copper and features the elegant SYSTIMAX 360 design.

The PATCHMAX GS3 panels accept four (4) PATCHMAX GS Distribution Modules which can be rotated forward, allowing front-access to the 110 type IDC terminals for easy cable termination. PATCHMAX GS Distribution Modules feature an innovative termination manager and rear housing which provides easier, faster, more reliable terminations and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Improved rear cable manager makes cable routing and bundling easier
- Supports deployment of InstaPATCH Cu pre-terminated copper
- Available in 24 port (2U) configuration
- Features elegant SYSTIMAX 360 design
- Innovative 2-way mounting and terminating improving installation for limited rear access applications
- Distribution modules can be snapped onto front of panel for easy front access to rear 110 type IDC termination field
- Designed for simplified administration with built-in cord retainer fingers
- Allows all 24 cords to be routed in the same direction
- 1 to 24 port labeling and identification
- Meets 606 labeling standard



SYSTIMAX 360™ GigaSPEED® XL
PATCHMAX® GS3 Panel



360 PATCHMAX GS3 48 Port Patch Panel

Product Number	Detailed Description	Material ID
360-PM-GS3-2U	360 PATCHMAX GS3 24 Port Patch Panel	760102244
360-PM-GS3-DM	360 PATCHMAX GS3 Distribution Module	760102269
360-PM-KIT-2U	360 PATCHMAX Panel Kit - 2U	760108993
360-PM-GS3-2U-48	360 PATCHMAX GS3 48 Port Patch Panel	760117366
360-PM-GS3-DM-12	360 PATCHMAX GS3 Distribution Module - 12	760117382
360-PM-KIT-2U-48	360 PATCHMAX Panel Kit - 2U - 48	760117408



PATCHMAX® GS3 24 Port Patch Panel,
Front View



PATCHMAX® GS3 24 Port Patch Panel,
Rear View

Copper
Reference

GigaSPEED
X10D

GigaSPEED
XL

PowerSUM

InstaPATCH
Cu

VisiPatch

Additional Copper
Connectivity

Coaxial
Cable

PATCHMAX® GS3 GigaSPEED® XL Distribution Hardware



PATCHMAX GS3 Termination Manager Installation



PM-GS3-48

- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL**
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

The PATCHMAX GS3 panel system helps unleash the power of an integrated GigaSPEED XL copper and fiber optic LazrSPEED/TeraSPEED/OptiSPEED cabling solution while maintaining all of the innovative features that have made PATCHMAX unique in the industry. Its unique modularity and patch cord management system continue to provide unmatched flexibility to MIS managers with the ability to mix and match copper and fiber media in the same panel.

The 19-inch rack mountable patch panel is designed to accept 4 or 8 six-port Distribution Modules (DM) which can be rotated forward, allowing front access to the 110 type IDC terminals for easy cable termination. Built-in horizontal patch cord management brackets provide support for patch cords as well as a holder for the DM modules during installation.

This modular approach offers total flexibility in selecting the required copper and fiber adapters. In addition it provides for fiber and GigaSPEED XL copper solutions since both fiber and GigaSPEED XL modules can fit into the same panel kit. This feature also supports existing GigaSPEED XL installations by providing the option of a cost effective upgrade from copper to fiber solutions by simply replacing the copper modules with the fiber modules in conjunction with the cable changes.

The PATCHMAX GS3 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

Physical Specifications:

- Height:** 4 Module Panel: 3.53 in (8.9 cm)
8 Module Panel: 5.29 in (13.34 cm)
- Width:** 4 Module Panel: 19 in (48.3 cm)
8 Module Panel: 19 in (48.3 cm)
- Depth:** 4 Module Panel: 8.13 in (20.5 cm)
8 Module Panel: 8.13 in (20.5 cm)
- Plastic Material:** High-impact, flame retardant, thermoplastic
- Flammability Rating:** UL-rated 94 V-0
- Operating Temperature:** 14°F to 140°F (-10°C to 60°C)
- Storage Temperature:** -40°F to 158°F (-40°C to 70°C)
- Humidity:** 95% (non-condensing)
- Contact Material & Plating:** Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.
- Nominal Solid Conductor Diameter:** 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
- Nominal Stranded Conductor Diameter:** 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)

- Insulation Size:** 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
- Outlet Wires:** Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
- Plug Retention Force:** 30 lbs (133 N) minimum between modular plug and jack
- Plug Insertion Life:** 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
- Plug/Jack Contact Force:** 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

- Insulation Resistance:** 500 MΩ minimum
 - Current Rating:** 1.5 A at 68°F (20°C)
 - TIA/EIA Category:** 6
 - 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
- UL and cUL Listed**

Product Number	Detailed Description	Modules/Ports	Material ID
PM-GS3-24	PATCHMAX GS3 24-Port Patch Panel with Termination Manager	24 Ports	760062356
PM-GS3-48	PATCHMAX GS3 48-Port Patch Panel with Termination Manager	48 Ports	760062364
PM-GS3-DM	PATCHMAX GS3 Distribution Module	6 Ports	760065763
PM-DM-GS3-MM-LC/LC	PATCHMAX GS3-OptiSPEED LC Module	12 LC	760001735
PM-DM-GS3-SM-SC/SC	PATCHMAX GS3-TeraSPEED SC Module	6 SC	760001743
PM-DM-GS3-SM-ST/ST	PATCHMAX GS3-TeraSPEED ST Module	6 ST	760001750
PM-DM-GS3-SM-LC/LC	PATCHMAX GS3-TeraSPEED LC Module	12 LC	760001768
1100PM-TM	Termination Manager Kit	24 Ports	760051201

PATCHMAX GS3 GigaSPEED XL Distribution Hardware

Product Number	Detailed Description	Modules/Ports	Material ID
PM-GS3-2U	PATCHMAX GS3-2U Panel Kit (empty)	4 Modules	760001669
PM-GS3-3U	PATCHMAX GS3-3U Panel Kit (empty)	8 Modules	760001677
PM-DM-GS3-LS-SC/SC	PATCHMAX GS3-LazrSPEED SC Module	6 SC	760001685
PM-DM-GS3-LS-ST/ST	PATCHMAX GS3-LazrSPEED ST Module	6 ST	760001693
PM-DM-GS3-LS-LC/LC	PATCHMAX GS3-LazrSPEED LC Module	12 LC	760001701
PM-DM-GS3-MM-ST/ST	PATCHMAX GS3-OptiSPEED ST Module	6 ST	760001727
PM-DM-GS3-MM-SC/SC	PATCHMAX GS3-OptiSPEED SC Module	6 SC	760001719

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

GigaSPEED® XL Information Outlet

The MGS400 Information Outlet features proprietary crosstalk cancellation techniques for superior Near End Crosstalk (NEXT and PSNEXT) performance that provides unmatched throughput performance when installed as part of a complete GigaSPEED XL channel. The solution is guaranteed to exceed the Category 6/Class E channel specifications for ISO/IEC and TIA, even under the worst case channel configuration.

Features and Benefits:

- Snaps into any CommScope modular faceplate, frame or surface-mount box
- Can be mounted either at 90 degrees (straight) or 45 degrees (angled)
- Angled feature eliminates the need for special faceplates
- Multicolored identification labels assure fast, accurate installation
- Snap-on icons provided in strip of three: Computer Symbol, Data and GS, also sold separately in packages of 25, product number M61A
- Low-profile wire cap protects against contamination and secures connections
- The MGS400 outlet uses either T568A or T568B wiring
- The cap kit contains 25 natural colored cable ties and 25 clear colored MGS covers with strain relief
- Package quantity 100; Bulk Pack includes one handheld terminating device (760034215)

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm)
Universal A/B labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in
(0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in
(0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation resistance: 500 MΩ minimum

Current rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 6

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

UL and cUL Listed



MGS400-318 and MGS400-262



Kit: Cap with Strain Relief for MGS Outlet

Product Number	Color	Qty/Pkg	Material ID
MGS400-003	Black	1	700206667
MGS400-112	Orange	1	700206683
MGS400-123	Yellow	1	700206691
MGS400-226	Green	1	700206709
MGS400-262	White	1	700206725
MGS400-317	Red	1	700206741
MGS400-318	Blue	1	700206758
MGS400-361	Violet	1	700206675
MGS400-215	Misty Cream	1	760070326
MGS400-246	Ivory	1	700206717
MGS400-270	Gray	1	700206733
MGS400-317-K (Keyed)	Red	1	760006361
MGS400 BULK-318	Blue	100	760041996
MGS400 BULK-003	Black	100	760041962
MGS400 BULK-262	White	100	760041988
MGS400 BULK-246	Ivory	100	760041970
MGS400BH-BULK-112	Orange	100	760077156
Handheld Terminating Device	Black	25	760034215
Kit: Cap with Strain Relief for MGS Outlet	Clear	25	760056069

GigaSPEED® XL Modular Patch Cord and Pre-terminated Cord

The GS8E Modular Patch Cord family of high bandwidth cords form parts of the GigaSPEED XL cabling solution. Electrical performance exceeds TIA and ISO/IEC Category 6/Class E specifications and is fully backward compatible with Category 5e and 5 connectors.

The GS8E Modular Patch Cord comes in a wide variety of variation which includes plenum, Low Smoke Zero Halogen (LSZH), stranded conductors, solid conductors, straight through wiring, crossover wiring and rollover wiring to meet different application needs.

The GS8E-S solid conductor cords consist of solid conductor cable, factory terminated with GS8E plugs.

The GS8E-SP is a solid plenum version of GS8E patch cord which provides extra margin on fire safety.

The GS8E-L, Low Smoke Zero Halogen (LSZH), is a stranded GigaSPEED XL Solution cord and GS8E-SL is a LSZH solid cable assembly which is terminated with GS8E plugs.

Patented plug design, improved 24 gauge cordage and a unique manufacturing process assure excellent electrical performance and low variability. Improved anti-snag feature provides maximum protection from snagging during moves and rearrangements.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568-C.2 Category 6 and ISO/EIC Category 6/Class E specifications
- Can support network line speeds in excess of 1 gigabit per second
- Certified component of an integrated GigaSPEED XL Solution
- Qualifies for a 20-year product and applications assurance warranty when included in a certified SYSTIMAX GigaSPEED XL channel
- Ideal for Data Center architectural requirements

Physical Specifications:

Contact Material: Phosphor Bronze

Contact Plating: Gold 50 micro-inch (1.27 microns)
Nickel 100 micro-inch (2.54 microns)

Insertion Life: 750 minimum

Plug Material: Polycarbonate UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

RoHS Compliant: Yes

Electrical Specifications:

TIA Category: 6

Safety Certifications:

ETL/cETL Listed



Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPATCH

Additional Copper Connectivity

Coaxial Cable

GigaSPEED XL GS8E Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC3312	GS8E	GS8E Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3313	GS8E-X3	GS8E 10/100BASE-T 2X3 & 1X4 Crossover Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3315	GS8E-X5	GS8E 1000BASE-T MDI-X Crossover Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3316	GS8E-R	GS8E Stranded Cordage Rollover Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC331T	GS8E-XT1	GS8E T1 Crossover Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3412	GS8E117	GS8E Single-ended Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC9912	GS8E-K	GS8E Keyed Plug Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3382	GS8E-S	GS8E Solid Cable Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3482	GS8E117-S	GS8E Single-ended Solid Cable Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3282	GS8E-MGS400-S	GS8E-MGS400 on 1071 Solid Cable Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3392	GS8E-L	GS8E Stranded LSZH Cordage Modular Patch Cord	0	8,B,Z	F,M	1-100 ft / 1-30 m
CPC3393	GS8E-L-X3	GS8E LSZH 10/100BASE-T 2x3 & 1x4 Crossover Modular Patch Cord	0	8,B,Z	F,M	1-100 ft / 1-30 m
CPC3322	GS8E-SL	GS8E Solid LSZH Cable Modular Patch Cord	0	8	F,M	1-300 ft / 1-100 m
CPC3222	GS8E-MGS400-SL	GS8E-MGS400 on 3071 Solid LSZH Cable Zone Extension Cord	1,2,3,4,5,6,7,8,9	8	F,M	1-300 ft / 1-100 m
CPC33E1	GS8E-SL-A	GS8E Solid LSZH Cordage, Modular Patch Cord A-wired	0	8	F,M	1-300 ft / 1-100 m
CPC34E1	GS8E117-SL-A	GS8E Single-ended Solid LSZH Cordage, Modular Patch Cord A-wired	0	8	F,M	1-300 ft / 1-100 m

Ordering Material ID Example: CPC3312-01F001

GigaSPEED XL GS8E-P Plenum Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC3372	GS8E-SP	GS8E Solid Plenum Cable Modular Patch Cord	0	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3373	GS8E-SP-X3	GS8E Solid Plenum 10/100BASE-T 2X3 & 1X4 Crossover Cable Modular Patch Cord	0	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3472	GS8E117-SP	GS8E Single-ended Solid Plenum Cable	0	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3272	GS8E-MGS400-SP	GS8E-MGS400 on 2071 Solid Plenum Cable Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m

Ordering Material ID Example: CPC3372-0CF007

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

GigaSPEED XL MGS400-MGS400 Pre-terminated Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC2282	MGS400-MGS400-S	MGS400-MGS400 on 1071 Solid Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC2272	MGS400-MGS400-SP	MGS400-MGS400 on 2071 Solid Plenum Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC2222	MGS400-MGS400-SL	MGS400-MGS400 on 3071 Solid LSZH Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	8	F,M	1-300 ft / 1-100 m

Ordering Material ID Example: CPC2282-03F050

GS8E-SM SecureMAX Tamper-Resistant Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
*CPCNN12	GS8E-SM	SecureMAX GS8E Tamper-resistant Patch Cord (Double side lock)	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
*CPCN312	GS8E-SM-GS8E	SecureMAX GS8E Tamper-resistant Patch Cord (Single side lock)	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPCNN12-03F007

*Not available for sale in Europe, Australia and Japan

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

Tamper Resistant Patch Cord Accessories

Product Number	Detailed Description	Material ID
SM-CL	SecureMAX Patch Cord Lock	760099424
SM-CL-KEY	SecureMAX Patch Cord Lock Key with key chain	760099432
SM-CL-KIT	SecureMAX Patch Cord Lock Kit (25 locks, 2 keys)	760102145

*SM-CL is compatible with SYSTIMAX GS8E, GS10E, GSXP and 360GS10E plugs. SM-CL can be mounted on plug in the field without disturbance to live connection. Lock and Key are available in red only.

*Not available for sale in Europe, Australia and Japan. Contact Product Management for availability outside of North America.



Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

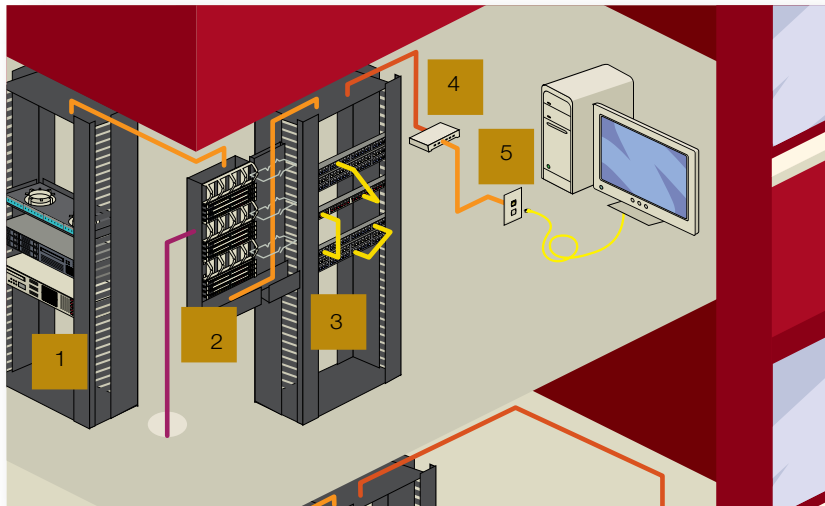
VisitPatch

Additional Copper Connectivity

Coaxial Cable

PowerSUM Solution Exceeding Category 5/5e

Copper Reference
GigaSPEED X10D
GigaSPEED XL
PowerSUM



- 1** Racks
- 2** 110 system
- 3** 1100PS PATCHMAX PS modular patch panels
- 4** Optional zone box with MPS100E
- 5** MPS100E outlet and faceplate
- 1061/2061/3061/4061 U/UTP cable
- PS117 equipment cord
- D8PS patch cord

PowerSUM Solution

Features and Benefits:

- Performance extended to 155.5 MHz for channels
- Performance certified to exceed the Category 5e specifications for enhanced channels
- Supports IEEE 802.3 1000BASE-T plus other legacy LANs and applications

PowerSUM channel performance specifications exceed not only the ANSI/TIA-568-C.2 and ISO 11801 Edition 2 for Category 5e/Class D cabling systems but are also capable of providing stable and continual performance up to and beyond 100 MHz.

SYSTIMAX channels that are comprised exclusively of PowerSUM passive products end-to-end are capable of delivering 1.0 Gbps to the workstation in accordance with application standards and are eligible for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance.

PowerSUM products include:

- 4-pair 1061, 2061, 3061 U/UTP Cables
- VisiPatch System and 110 Connector System
- PATCHMAX and 1100 PowerSum Category 5e Patch Panels
- SYSTIMAX Modular Patch Panels
- MPS100E Information Outlets
- D8PS Patch and Workstation Cords
- 110, 117, 119 Patch Cords
- VisiPatch GS Patch Cords

InstaPATCH Cu
VisiPatch
Additional Copper Connectivity
Coaxial Cable

PowerSUM Specifications

SYSTIMAX PowerSUM Category 5e Guaranteed Channel Performance

Guaranteed Performance Specifications for 4-connection SYSTIMAX PowerSUM Channels¹

Test Parameter	Guaranteed Margins Values
Attenuation	5%
Pair-Pair NEXT	3 dB
PSNEXT	5.5 dB
Pair-Pair ELFEXT	4.5 dB
PSELFEXT	5.5 dB
Return Loss	1 dB
Delay	580~546.9ns ²
Delay Skew	30ns

¹ All guarantees described in this document are subject to the terms and conditions of the SYSTIMAX Extended Product Warranty and Applications Assurance Program

² Phase delay is frequency dependent

PowerSUM Guaranteed Channel Performance Specifications

Frequency (MHz)	Atten (dB)	pr-pr NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	pr-pr ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)	Phase Delay (ns)	Delay Skew (ns)
1.0	2.1	66.3	64.2	66.1	64.0	61.8	59.8	18.0	580	30
4.0	4.2	56.6	52.4	56.2	52.0	49.8	47.8	18.0	562	30
8.0	6.0	51.6	45.6	51.2	45.2	43.8	41.8	18.0	557	30
10.0	6.7	50.0	43.3	49.6	42.9	41.8	39.8	18.0	555	30
16.0	8.6	46.6	38.0	46.2	37.6	37.8	35.8	18.0	553	30
20.0	9.6	45.0	35.4	44.6	35.0	35.8	33.8	18.0	552	30
25.0	10.4	43.4	33.0	42.9	32.5	33.9	31.9	17.0	551	30
31.3	12.2	41.7	29.5	41.2	29.0	31.9	29.9	16.0	550	30
62.5	17.6	36.6	19.0	36.1	18.5	25.9	23.9	13.1	549	30
100.0	22.8	33.1	10.3	32.6	9.8	21.9	19.9	11.0	548	30
125.0	25.8	31.5	5.7	30.9	5.1	19.9	17.9	10.1	547	30
155.5	29.1	29.8	0.7	29.2	0.1	18.0	16.0	9.1	547	30

The table provides reference values only. All parameters comply with the governing equations given below over the entire frequency range. All values and equations apply to worst-case channels utilizing four-pair 61C+ or 61B series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for the length up to 100 meters.



PowerSUM Cable



Top cable: 1061 004BSL 4/24 W1000

Non Plenum 1061

The 1061 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173, and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 5e.

The 4-pair 1061C cable is composed of 24 AWG solid copper conductors, insulated with high-density polyolefin. The insulated conductors are twisted into pairs and jacketed with our specially formulated material. 1061C cable is CM rated.

The 4-pair 1061B cable is CMR rated and also ETL approved.

The 4-pair 1061B cable is composed of 24 AWG solid copper conductors with high-density polyolefin insulation and jacketed with low-smoke polyvinyl chloride (PVC).

Physical Specifications:

- Weight:** 20.8 lbs/1,000 ft (9.43 kg/304.8 m)
- Nominal Jacket Thickness:** 0.021 in (0.53 mm)
- Nominal Outside Diameter:** 0.200 in (5.08 mm)
- Maximum Pulling Tension:** 25 lbs (11.34 kg)
- Operating Temperature:** -4°F to 140°F (-20°C to 60°C)
- Gauge:** 24 AWG

Electrical Specifications:

- NVP (fastest pair @10 MHz):** 70%
- Maximum DC Resistance:** 9.38 Ohms/100 m
- Maximum DC Resistance Unbalance:** 3%
- Maximum Mutual Capacitance at 1 kHz:** 5.6 nF/100 m
- Standards:** ANSI/TIA-568-C.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D
CENELEC EN50173: 2002 (Edition 2) Category 5e
- ETL:** CMR (for 1061B)
CM (for 1061C)

ETL CMR Rated

Product Number	Pair Count	Color	Length	Package	Material ID
1061B BL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	107323636
1061B BL 4/24 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	107251696
1061B OR 4/24 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	108173840
1061B RD 4/24 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	700022643
1061B SL 4/24 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	107091936
1061B WH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107819575

ETL CM Rated

Product Number	Pair Count	Color	Length	Package	Material ID
1061C BK 4/24 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	107509051
1061C BL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	760004705
1061C BL 4/24 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	760004671
1061C LB 4/24 R1000	4	Light Blue	1,000 ft (305 m)	Reel	107057853
1061C LB 4/24 W1000	4	Light Blue	1,000 ft (305 m)	We-Tote Box	106871809
1061C LL 4/24 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	107244022
1061C OR 4/24 R1000	4	Orange	1,000 ft (305 m)	Reel	107193435
1061C OR 4/24 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	700156177
1061C RD 4/24 R1000	4	Red	1,000 ft (305 m)	Reel	107244055
1061C RD 4/24 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	106926363
1061C SL 4/24 R1000	4	Slate	1,000 ft (305 m)	Reel	106836943
1061C SL 4/24 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	106836950
1061C SG 4/24 R1000	4	Spring Green	1,000 ft (305 m)	Reel	107244048
1061C SG 4/24 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	107244030

- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

Product Number	Pair Count	Color	Length	Package	Material ID
1061C WH 4/24 R1000	4	White	1,000 ft (305 m)	Reel	107849283
1061C WH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107147787
1061C YL 4/24 R1000	4	Yellow	1,000 ft (305 m)	Reel	106999071
1061C YL 4/24 W1000	4	Yellow	1,000 ft (305 m)	We-Tote Box	107001687

Plenum 2061 (4-pair)

The 2061 Plenum 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 5e and meet the ETL (CMP) requirements. The 2061 cable is composed of 24 AWG solid copper conductors insulated with fluorinated ethylene propylene (FEP) and polyethylene (PE) and jacketed with low-smoke polyvinyl chloride (PVC).

Physical Specifications:

Weight: 20.0 lbs/1,000 ft (29.8 kg/km)
Nominal Jacket Thickness: 0.019 in (0.48 mm)
Nominal Outside Diameter: 0.180 in (4.57 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 73%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5e
 ISO/IEC 11801: 2002 (Edition 2) Class D
 CENELEC EN 50173: 2002 (Edition 2) Category 5e
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2061F BK 4/24 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	760051615
2061F BL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	760049585
2061F BL 4/24 R3000	4	Blue	3,000 ft (915 m)	Reel	760049643
2061F BL 4/24 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	760041913
2061F LL 4/24 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	760051631
2061F OR 4/24 R1000	4	Orange	1,000 ft (305 m)	Reel	760049627
2061F OR 4/24 R3000	4	Orange	3,000 ft (915 m)	Reel	760049684
2061F OR 4/24 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	760041954
2061F PK 4/24 W1000	4	Pink	1,000 ft (305 m)	We-Tote Box	760066068
2061F PR 4/24 R1000	4	Purple	1,000 ft (305 m)	Reel	760058735
2061F PR 4/24 R3000	4	Purple	3,000 ft (915m)	Reel	760073114
2061F RD 4/24 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	760051623
2061F SL 4/24 R1000	4	Slate	1,000 ft (305 m)	Reel	760049601
2061F SL 4/24 R3000	4	Slate	3,000 ft (915 m)	Reel	760049668
2061F SL 4/24 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	760041939
2061F SG 4/24 R1000	4	Spring Green	1,000 ft (305 m)	Reel	760049635
2061F SG 4/24 R3000	4	Spring Green	3,000 ft (915 m)	Reel	760049692
2061F SG 4/24 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	760049700

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Low Smoke Zero Halogen (LSZH) 3061

The 3061A LSZH 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 5e. The 3061A LSZH cable is composed of 0.511 mm (24 AWG) bare solid copper conductors insulated with high density polyolefin. The insulated conductors are tightly twisted into pairs and jacketed with the low smoke non-halogen compound.

Physical Specifications:

Weight: 20.0 lbs/1,000 ft (29.8 kg/km)
Nominal Jacket Thickness: 0.021 in (0.53 mm)
Nominal Outside Diameter: 0.195 in (4.95 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 70%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5e
 ISO/IEC 11801: 2002 (Edition 2) Class D
 CENELEC EN50173: 2002 (Edition 2) Category 5e
 IEC 754 part 2, Non-halogen based on pH and conductivity measurements
 IEC 1034 part 2, Smoke emission
 IEC 332 part 3, Flammability and flame retardant
 NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3061A BL 4/24 R3000	4	Blue	3,000 ft (914 m)	Reel	760081232
3061A RD 4/24 R3000	4	Red	3,000 ft (914 m)	Reel	760081240
3061A WH 4/24 R1000	4	White	1,000 ft (305 m)	Reel	107573537
3061A WH 4/24 R3000	4	White	3,000 ft (914 m)	Reel	760081257
3061A WH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107573545

PowerSUM Modular Patch Panel

The 1100PSCAT5E Patch Panel is a 19-inch rack mountable panel available in straight or angled designs. The 1100PSCAT5E accommodates repeated line moves, additions and rearrangements. The IDC connection on the rear of the panel houses the printed wiring board that provides continuous connection to the 8-pin modular jacks on the front. The result is a hard-working panel that allows an IDC gas-tight termination of equipment on 110 connectors. The panel is available with 24 or 48 RJ45 ports. The 1100PSCAT5E Panel kit includes icon labels with plastic holders that you can mount on the front of the panel for easy port identification.

The minimum insertion life is 750 cycles, which allows for hundreds of moves and additions. Label strips for both the front and back of the panel allow for easy identification of circuits.

Features and Benefits:

- Supports IEEE 802.3 1000BASE-T plus other legacy LANs and applications
- PowerSUM channel performance specifications exceed not only the ANSI/TIA-568-C.2 and ISO 11801 Edition 2 for Category 5e/Class D cabling systems, but are also capable of providing stable and continual performance up to and beyond 100 MHz
- Available in 24 and 48 port versions
- Capable of handling T568A or T568B wiring
- Vertical and Horizontal cable organizers improve patch cord management (order separately, 1100C and 1100D)
- 110 Connections in rear allow for easy and quick installation of 22 to 24 gauge
- Cables routed and tied directly to the panel eliminating the rear cable management bar
- Supports 1Gb network line speeds
- Cat 5 and Cat 3 backward compatible
- PowerSUM 20 year warranty

Physical Specifications:

Height: 24-Ports: 1.75 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)

Width: 19.0 in (48.3 cm)

Depth: 1.60 in (4.96 cm)

Wire Termination Type:

Insulation displacement (ID), gas tight

Wire Size:

Conductor Type: Solid or stranded (7 strands)

Size: 26/24/22 AWG (0.40/0.51/0.64 mm)

Mechanical Data:

Plug Insertion Life: 750 minimum

Wire Insertion Force: 24 AWG=13-28 lbs (58-125 N)

Wire Retention: 24 AWG-typical pull out force

X-axis=10.6 lbs (47.3 N)

Y-axis=10.6 lbs (47.3 N)

Z-axis=2.4 lbs (10.7 N)

Environmental Conditions:

Temperature Range:

Storage: -40°F to 158°F (-40°C to 70°C)

Operational: 14°F to 140°F (-10°C to 60°C)

Relative Humidity: (operational) maximum, non-condensing 93%

Materials:

Plastic Components: Polycarbonate, self-extinguishing

Flammability Rating: UL-rated 94 V-O

Oxygen Index: 28.5% minimum

Contact Material: Phosphor Bronze

Description:

Insertion Life: 750 cycles

Plug/Jack Contact Force: 100g min. (3.5 oz.)

Plug Retention Force: 133 N min.

Operating Temperature Range: -10°C to 60°C degrees

Storage Temperature Range: -40°C to 70°C degrees

Humidity: 5 to 95% (noncondensing)

Height: 24-Ports: 4.38 cm (1U)

48-Ports: 8.83 cm (2U)

Width: 48.26 cm (19 inch)

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum

Current Rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 5e

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

UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
1100PSCAT5E-24	1100PS 24-Port Panel	24 Ports	108208919
1100PSCAT5E-48	1100PS 48-Port Panel	48 Ports	108208935
1100PSCAT5E-24-Angled	1100APS 24-Port Panel	24 Ports	760056580
1100PSCAT5E-48-Angled	1100APS 48-Port Panel	48 Ports	760056598
1100PS ICON Label - White			760001412
1100PS ICON Label - Blue			760001420



PATCHMAX® PowerSUM Distribution Hardware



Top: PM2150PSE-48
Bottom: PM2150PSE-24

PATCHMAX Distribution Hardware is a copper and fiber modular connecting hardware system. PATCHMAX components can be purchased individually or as a complete kit. It is designed to be mounted on EIA 310 Standard 19 inch (48.3 cm) rack/frame or 1100C type wall mount brackets.

The Category 5e copper kit PM2150 PowerSUM includes a 24-(48) port panel, 4 (8) DM21xx modules, a cable fastener kit, 1 (2) front retainers, 5 (10) rear retainers, 16 white/blue labels, straps, tape and installation instructions for the 24- and 48- port kits, respectively.

The P2040 and P2080 are individual, empty panels that hold 4 and 8 snap-in distribution modules, respectively. The P2040 or P2080 panels allow fiber and copper to be terminated in the same panel. A slack storage tray in the rear of the module maintains the correct buffered fiber bend radius.

Physical Specifications:

- Height:** 24-Ports: 3.53 in (8.9 cm)
48-Ports: 7.06 in (17.8 cm)
- Width:** 24-Ports: 19 in (48.3 cm)
48-Ports: 19 in (48.3 cm)
- Depth:** 24-Ports: 8.13 in (20.5 cm)
48-Ports: 8.13 in (20.5 cm)
- Plastic Material:** High-impact, flame retardant, thermoplastic
- Flammability Rating:** UL-rated 94 V-0
- Operating Temperature:** 14°F to 140°F (-10°C to 60°C)
- Storage Temperature:** -40°F to 158°F (-40°C to 70°C)
- Humidity:** 95% (non-condensing)
- Contact Material & Plating:** Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.
- Nominal Solid Conductor Diameter:** 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
- Nominal Stranded Conductor Diameter:** 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
- Insulation Size:** 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
- Outlet Wires:** Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
- Plug Retention Force:** 30 lbs (133 N) minimum between modular plug and jack
- Plug Insertion Life:** 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
- Plug/Jack Contact Force:** 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

- Insulation Resistance:** 500 MΩ minimum
- Current Rating:** 1.5 A at 68°F (20°C)
- TIA/EIA Category:** 5e
- 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
- UL and cUL Listed**

PATCHMAX PowerSUM Panels and Modules

Product Number	Detailed Description	Modules/Ports	Material ID
PM2150PSE-24	PATCHMAX PowerSUM Patch Panel, 24-Port	24 Ports	108320029
PM2150PSE-48	PATCHMAX PowerSUM Patch Panel, 48-Port	48 Ports	108320045
P2040 (empty)	PATCHMAX PS Panel for 4 Distribution Modules	4 Modules	107428591
P2080 (empty)	PATCHMAX PS Panel for 8 Distribution Modules	8 Modules	107428609

PATCHMAX PowerSUM Modules

Product Number	Detailed Description	Material ID
DM2150PSE	PowerSUM Distribution Module, 6-Port	108320011
DM2302 SC/SC	OptiSPEED Multimode SC Module, 6 Connection	108116484
DM2302 SC/ST	OptiSPEED Multimode SC Front Module, 6 Connection	108116500
DM2302 ST/ST	OptiSPEED Multimode ST Module, 6 Connection	108116526
DM2302 ST/SC	OptiSPEED Multimode ST Front Module, 6 Connection	108116542
DM2302 LC/LC	OptiSPEED Multimode LC Module, 12 Connection	108267634
DM2303 SC/SC	TeraSPEED Single-mode SC Module, 6 Connection	108116492
DM2303 SC/ST	TeraSPEED Single-mode SC Front Module, 6 Connection	108116518
DM2303 ST/ST	TeraSPEED Single-mode ST Module, 6 Connection	108116534
DM2303 ST/SC	TeraSPEED Single-mode ST Front Module, 6 Connection	108116559
DM2303 LC/LC	TeraSPEED Single-mode LC Module, 12 Connection	108267642
DM2304 LC/LC	LazrSPEED Multimode LC Module, 12 Connection	108662131
PM2302 SC/SC-24	OptiSPEED Multimode SC 24 Connection Panel	108118027
PM2302 SC/ST-24	OptiSPEED Multimode SC Front 24 Connection Panel	108118043
PM2302 ST/ST-24	OptiSPEED Multimode ST 24 Connection Panel	108118068
PM2302 ST/SC-24	OptiSPEED Multimode ST Front 24 Connection Panel	108008084
PM2302 SC/SC-48	OptiSPEED Multimode SC 48 Connection Panel	108118100
PM2302 SC/ST-48	OptiSPEED Multimode SC Front 48 Connection Panel	108118126
PM2302 ST/ST-48	OptiSPEED Multimode ST 48 Connection Panel	108118142
PM2302 ST/SC-48	OptiSPEED Multimode ST Front 48 Connection Panel	108118167
PM2302 LC/LC-48	OptiSPEED Multimode LC 48 Connection Panel	108267659
PM2302 LC/LC-96	OptiSPEED Multimode LC 96 Connection Panel	108267675
PM2303 SC/SC-24	OptiSPEED Single-mode SC 24 Connection Panel	108118035
PM2303 SC/ST-24	OptiSPEED Single-mode SC Front 24 Connection Panel	108118050
PM2303 ST/ST-24	OptiSPEED Single-mode ST 24 Connection Panel	108118076
PM2303 ST/SC-24	OptiSPEED Single-mode ST Front 24 Connection Panel	108118092
PM2303 SC/SC-48	OptiSPEED Single-mode SC 48 Connection Panel	108118118
PM2303 SC/ST-48	OptiSPEED Single-mode SC Front 48 Connection Panel	108118134
PM2303 ST/ST-48	OptiSPEED Single-mode ST 48 Connection Panel	108118159
PM2303 ST/SC-48	OptiSPEED Single-mode ST Front 48 Connection Panel	108118175
PM2303 LC/LC-48	OptiSPEED Single-mode LC 48 Connection Panel	108267667
PM2303 LC/LC-96	OptiSPEED Single-mode LC 96 Connection Panel	108267683
DM2304 SC/SC	LazrSPEED Multimode SC module, 6 Connection	108662156
DM2304 ST/ST	LazrSPEED Multimode ST module, 6 Connection	108662164
PM2304 SC/SC-24	LazrSPEED Multimode SC 24 Connection Panel, 2U Height	108662065
PM2304 ST/ST-24	LazrSPEED Multimode ST 24 Connection Panel, 2U Height	108662107
PM2304 SC/SC-48	LazrSPEED Multimode SC 48 Connection Panel, 4U Height	108662081
PM2304 ST/ST-48	LazrSPEED Multimode ST 48 Connection Panel, 4U Height	108662123
PM2304 LC/LC-48	LazrSPEED Multimode LC 48 Connection Panel, 2U Height	108662024
PM2304 LC/LC-96	LazrSPEED Multimode LC 96 Connection Panel, 4U Height	108662040

Copper
Reference

GigSPEED
X10D

GigSPEED
XL

PowerSUM

InstaPATCH
Cu

VisiPatch

Additional Copper
Connectivity

Coaxial
Cable

PATCHMAX PowerSUM Accessories

Product Number	Detailed Description	Material ID
L2300-BL	Icons (4 strips, 6 icons per strip), blue	107536773
L2300-WH	Icons (4 strips, 6 icons per strip), white	107536823
R2100	Front Cord Retainer (Kit of 5)	108036690
R2200	Rear Cable Retainer	107638934
R2300	Velcro Fastener Kit	107670952
BP2100	Blank Plate	108028457
L2200-WH	Labels for Circuit Distribution Module, white	107656977
L2200-BL	Labels for Circuit Distribution Module, blue	107656928

PowerSUM Information Outlets

The MPS100E Modular Information Outlets are 8-position/8-conductor high-density modular information jacks designed for high speed networking applications using data transmission rates.

Features and Benefits:

- Snaps into any CommScope modular faceplate, frame or surface-mount box
- Can be mounted either at 90 degrees (straight) or 45 degrees (angled)
- Angled feature eliminates the need for special faceplates
- Multicolored identification labels assure fast, accurate installation
- Snap-on icons provided in strip of three: Computer Symbol, MPSE and DATA, also sold separately in packages of 25, product number M61H
- Low-profile wire cap protects against contamination and secures connections
- Pair splitters and wider channel for enhanced conductor placement and termination
- The MPS100E outlet uses either the T568A or T568B wiring
- The MPS100E outlet is Category 5e compliant



MPS100E-318

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum

Current Rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 5e

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

UL and cUL Listed

Product Number	Wiring	Color	Qty/Pkg	Material ID
MPS100E-003	T568A, T568B	Black	1	108232695
MPS100E-112	T568A, T568B	Orange	1	108232703
MPS100E-123	T568A, T568B	Yellow	1	108232711
MPS100E-226	T568A, T568B	Green	1	108232729
MPS100E-246	T568A, T568B	Electrical Ivory	1	108232737
MPS100E-262	T568A, T568B	Electrical White	1	108232745
MPS100E-270	T568A, T568B	Electrical Gray	1	108232752
MPS100E-317	T568A, T568B	Red	1	108232760
MPS100E-318	T568A, T568B	Blue	1	108232778
MPS100E-361	T568A, T568B	Violet	1	108337726
MPS100E-215	T568B	Misty Cream	1	108480484
Cap PowerSUM Strain Relief	N/A	Transparent	100	760061333
Cap PowerSUM Strain Relief	N/A	Transparent	1000	760061341



PowerSUM Modular Patch Cord



D8PS

The D8PS Modular Patch Cord meets or exceeds Attenuation and NEXT Category 5 and Category 5e specifications for patch cords as specified in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Available in a variety of colors and lengths, the D8PS cords are ideal for high activity environments that require reliable data transmission.

Physical Specifications:

- Contact Material:** Phosphor Bronze
- Contact Plating:** Gold 50 micro-inch (1.27 microns)
Nickel 100 micro-inch (2.54 microns)
- Insertion Life:** 750 minimum
- Plug Material:** Polycarbonate UL-rated 94 V-O
- Operating Temperature:** 14°F to 140°F (-10°C to 60°C)
- RoHS Compliant:** Yes

Electrical Specifications:

TIA Category: 5e

Safety Certifications:

ETL/cETL Listed

PowerSUM D8PS Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC6642	D8PS	D8PS Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6641	D8PS-A	D8PS Stranded Cordage A-wired Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6442	PS117	D8PS Single-ended Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6643	D8PS-X3	D8PS 10/100BASE-T 2X3 & 1X4 Crossover Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6441	PS117-A	D8PS Single-ended Stranded Cordage A-wired Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPC6642 - 0ZF007

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

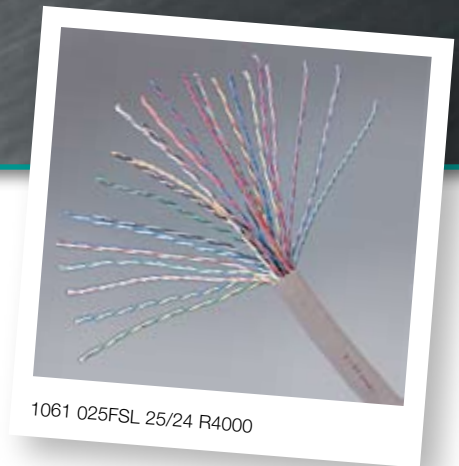
Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

25-Pair Category 5e U/UTP, 61 Series Cable



Non Plenum 1061

The 25-pair 1061 Cable is composed of 24 AWG bare solid copper conductors insulated with high density polyolefin. The insulated conductors are tightly twisted into pairs, stranded into mini-units and jacketed with a SYSTIMAX specially formulated PVC jacket. User-friendly standard 25-pair PIC color coding minimizes confusion when terminating on SYSTIMAX distribution hardware and Category 5/5e, 25-pair, telco-type, 525 connectors.

Physical Specifications:

Weight: 113 lbs/1,000 ft (51.26 kg/304.8 m)
Nominal Jacket Thickness: 0.027 in (0.69 mm)
Nominal Outside Diameter: 0.53 in (13.3 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Outside Diameter: 0.520 in (13.2 mm)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 5%
Maximum Mutual Capacitance at 1 kHz: 14 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5e
ETL: CMR

Product Number	Pair Count	Color	Length	Package	Material ID
1061 025FSL 25/24 R1000	25	Slate	1,000 ft (305 m)	Reel	760026518
1061 025FSL 25/24 R4000	25	Slate	4,000 ft (1219 m)	Reel	760026526

Plenum 2061

The 25-pair 2061A Cable is ETL listed Category 5 and ETL listed type CMP for use in air return handling spaces. The cable has a user-friendly standard 25-pair PIC color coding scheme, which minimizes confusion when terminating on SYSTIMAX distribution hardware and the Category 5, 25-pair telco-type 525 Connector. The cable conductors are insulated with Fluorinated-Ethylene-Propylene (FEP), twisted into pairs, stranded into mini-units and jacketed with Plenum rated material.

Physical Specifications:

Weight: 104 lbs/1,000 ft (47.2 kg/304.8 m)
Nominal Jacket Thickness: 0.012 in (0.31 mm)
Nominal Outside Diameter: 0.46 in (11.7 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 75%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 5%
Maximum Mutual Capacitance at 1 kHz: 4.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2061 025BWH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	760103044
2061 025BWH 25/24 R4000	25	White	4,000 ft (1,219 m)	Reel	760103051



Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Low Smoke Zero Halogen 3061

The PowerSUM 3061 Cable construction exceeds the requirements specified in ANSI/TIA-568-C.2 for Category 5e and ISO/IEC 11801 for Class D cabling. The cable design is constructed with 25 pairs of 24 AWG solid copper conductors. The pairs are arranged in seven groups, with three isolated from their adjacent groups by inclusion of a thin isolator tape. This tape can be separated from the cable construction without the use of any cutting tools, by simply tearing the tape away.

The PowerSUM 3061 025B cable design is also directly compatible with our 525 series connectors, when preconnectorized solutions are utilized. The absence of internal tubes or rigid separating elements makes the cable a natural match for these connectors.

Physical Specifications:

- Weight:** 115 lbs/1,000 ft (171 kg/km)
- Nominal Jacket Thickness:** 0.030 in (0.76 mm)
- Nominal Outside Diameter:** 0.500 in (12.70 mm)
- Maximum Pulling Tension:** 25 lbs (11.34 kg)
- Operating Temperature:** -4°F to 140°F (-20°C to 60°C)
- Gauge:** 24 AWG

Electrical Specifications:

- NVP (fastest pair @ 10 MHz):** 75%
- Maximum DC Resistance:** 9.38 Ohms/100 m
- Maximum DC Resistance Unbalance:** 5%
- Maximum Mutual Capacitance at 1 kHz:** 4.6 nF/100 m
- Standards:** ANSI/TIA-568-C.2 Category 5
- IEC 754 part 2, Non-halogen based on pH and conductivity measurements
- IEC 1034 part 2, Smoke emission
- IEC 332 part 3, Flammability and flame retardant
- NES 713: Toxicity index

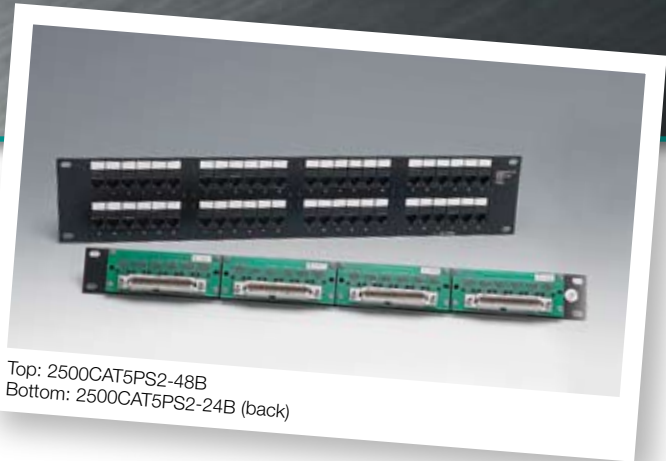
Product Number	Pair Count	Color	Length	Package	Material ID
3061 025BWH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	760081208
3061 025BWH 25/24 R4000	25	White	4,000 ft (1,219 m)	Reel	760081216

2500 and 2512 Modular Patch Panel

The 2500 Category 5, PowerSUM Patch Panel provides 8-pin modular patch on the front of the panel and female, 50-pin connections (patch) on the back.

The 2512 Category 5, PowerSUM Patch Panel provides two pairs to each 8-pin modular patch. Pair one is terminated on pins 1 and 2, and pair two is terminated on pins 3 and 6. Therefore, one 50-pin connector serves 12 jacks.

The 2512CAT5PS is wired to the IEEE 802.3, Ethernet 100BASE-TX and 100BASE-T2 standard.



Top: 2500CAT5PS2-48B
Bottom: 2500CAT5PS2-24B (back)

Physical Specifications:

Height: 24-Ports: 1.75 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)

Width: 19.0 in (48.26 cm)

Depth: 1.60 in (4.06 cm)

Wire Termination Type: Insulation displacement (ID), gas tight

Wire Size:

Conductor Type: Solid or stranded (7 strands)

Size: 26/24/22 AWG (0.40/0.51/0.64 mm)

Mechanical Data:

Plug Insertion Life: 750 minimum

Wire Insertion Force: 24 AWG=13-28 lbs (58-125 N)

Wire Retention: 24 AWG—typical pull out force

X-axis=10.6 lbs (47.3 N)

Y-axis=10.6 lbs (47.3 N)

Z-axis=2.4 lbs (10.7 N)

Environmental Conditions:

Temperature Range:

Storage: -40°F to 158°F (-40°C to 70°C)

Operational: 14°F to 140°F (-10°C to 60°C)

Relative Humidity: (operational) maximum, non-condensing 93%

Materials:

Plastic components: Polycarbonate, self-extinguishing

Flammability Rating: UL-rated 94 V-O

Oxygen Index: 28.5% minimum

Contact Material: Phosphor Bronze

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum

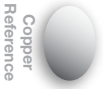
Current Rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 5

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

UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
2500CAT5PS2-24B	2500PS 24-Port Panel	24 Ports	108236142
2500CAT5PS2-48B	2500PS 48-Port Panel	48 Ports	108236159
2500CAT5PS2-24A	2500APS 24-Port Panel	24 Ports	108236126
2500CAT5PS2-48A	2500APS 48-Port Panel	48 Ports	108236134
2512CAT5PS2-48	2512PS 48-Port Panel	48 Ports	108236167



25-Pair Category 5 Connector & Tool

The 525 Connectors are used to terminate 25-pair cables. The available configurations are: 90 degree plug, 180 degree in-line plug, 110 degree angled plug and 90 degree jack.



525-PA-003

Features and Benefits:

- The 525 connector is compatible with industry standard 25-pair connectors while also providing keyed Category 5 connections with equipment using this feature. In addition, their unique design using crosstalk reduction techniques providing a 6 dB margin assures Category 5 performance throughout systems that use multiple connectors.
- 525-AP-003 110 degree angled plug was specifically designed for connection to electronics equipment requiring a 50-pin telco type connector. The 50-pin assembly is downward compatible and can be used to support 10BASE-T electronics or 100BASE-T or 155 Mbps ATM applications.
- The in-line (180 degree) end of the 50-pin cable assembly was specifically designed for connection to our 100BASE-T (50-pin Category 5) modular patch panel.
- For cable assemblies, refer to your local CommScope representative.

Physical Specifications:

Contact Plating: Gold 30 micro-inch (0.76 microns)
Nickel 50 micro-inch (1.27 microns)
Contact Force: 100 grams minimum
Insertion Life: 200 minimum
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
RoHS Compliant: Yes

Electrical Specifications:

TIA Category: 5
Maximum DC Resistance: 0.30 Ohms/100 m

Product Number	Type	Detailed Description	Qty/Pkg	Material ID
525-PA-003	Plug (Male)	90-degree Telco Plug (Bulk)	100	107487514
525-JA-003	Jack (Female)	90-degree Jack (Bulk)	100	107487498
525-AP-003	Plug (Male)	110-degree Angled Plug (Bulk)	100	108036732
525-CP-003	Plug (Male)	180-degree In-line Plug (Bulk)	100	107958233
525-PA-003	Plug (Male)	90-degree Telco Plug (Ind. Pk)	1	107487506
525-JA-003	Jack (Female)	90-degree Jack (Ind. Pk)	1	107487480
525-AP-003	Plug (Male)	110-degree Angled Plug (Ind. Pk)	1	108361916
525-CP-003	Plug (Male)	180-degree In-line Plug (Ind. Pk)	1	108361908
1803B Field Tool	Tool	Field Termination Tool for 525 Connectors	1	108135773

InstaPATCH® Cu Pre-Terminated Copper Solutions

SYSTIMAX Pre-Terminated Copper Solutions provide pre-connectorized copper cable assemblies for your infrastructure needs.

InstaPATCH® Cu Pre-Terminated Copper Solutions feature a high-density, factory connectorized, factory tested, modular connectivity systems that allow installers to simply and quickly connect network components together. InstaPATCH Cu Solutions are designed to support locations, such as data centers, that require high density, rapid deployment and high performance.

InstaPATCH Cu Pre-Terminated Copper Cable assemblies deliver hassle-free installation in a fraction of the time required by traditional implementations, ensuring that your network is up and running quickly. These solutions offer improved cable management and scalable capacity through their modular design. Pre-terminated assemblies provide price stability by minimizing the variable costs of termination, troubleshooting and rework. Engineered for rapid deployment, high performance and future-readiness, each of the SYSTIMAX pre-connectorized assemblies comes factory-tested and ready to install. InstaPATCH Cu Solutions are warranted by SYSTIMAX and backed by CommScope's industry-leading connectivity experience.

SwitchPack technology (SPT) supplies high-density switches with a pre-built, quick-disconnect feature, allowing superior cable management and extending the switch to patch panels where cross connects can be made. SwitchPack Technology brings greater reliability and serviceability to your network.

Features and Benefits:

- Speed – Installation up to eight times faster than traditional cabling.
- Flexibility – Multiple options for a variety of copper environments.
- Reliability – The SYSTIMAX InstaPATCH Cu Solution is backed by the SYSTIMAX Solutions 20-year Extended Product Warranty and Applications Assurance that we believe to be the best in the industry.
- Scalability – Plan for and install the exact number of ports you need now and add additional harnesses as needed in the future.
- Cost-control – Pricing stability by minimizing the variable cost of termination, troubleshooting and rework.
- Security – Reduces installation time required in a live data center environment.

Servers

For large-scale server deployments, a server harness can provide a simple, clutter-free and quick installation. Ideal for data center deployment with CommScope Server Cabinets.

Switches

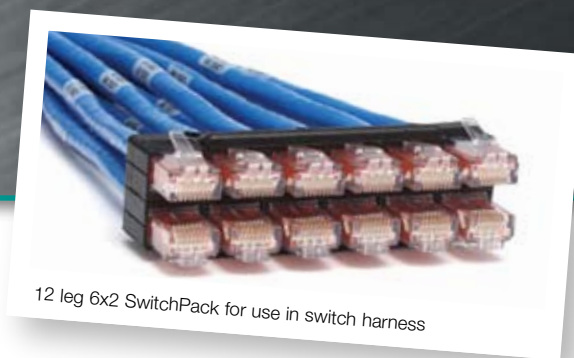
Switch assemblies are used in applications where you wish to connect network switch ports to network connectors to aid in cable management and to increase flexibility of cross connect fields. CommScope's SwitchPack connectivity makes these harnesses ideal for data centers and telecommunication rooms with high-density switch chassis.

Intra-Cabinet

Assemblies designed to connect electronic equipment within a single cabinet are designed to optimize cable management in this sensitive, active environment. Ideal for server-to-server and server-to-switch deployments.

Infrastructure

Assemblies designed to serve horizontal and vertical deployments typically feature modular connectors on each end. Ideal for small to large data centers, telecommunication rooms, zone wiring environments, and IBIS building applications.



Copper Reference

GigASPEED X10D

GigASPEED XL

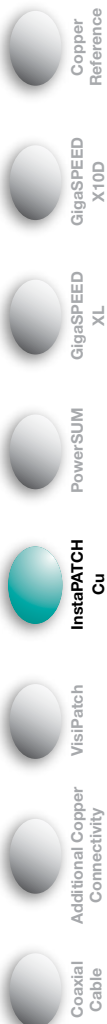
PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable



Harness Design

- 4-pair Category 5E/6/6A cables from 1 to 24 count
- Patch panel (6-port) modules (1100 and PATCHMAX Series), outlets, modular plugs, SwitchPack or blunt endpoints
- Variety of bundling methodologies available including Expando, velcro, and cable tie options
- Left, right, or trident staggers are designed for optimum cable management
- Various breakout lengths from bundling exit
- Unique, customizable leg label identifiers

Testing

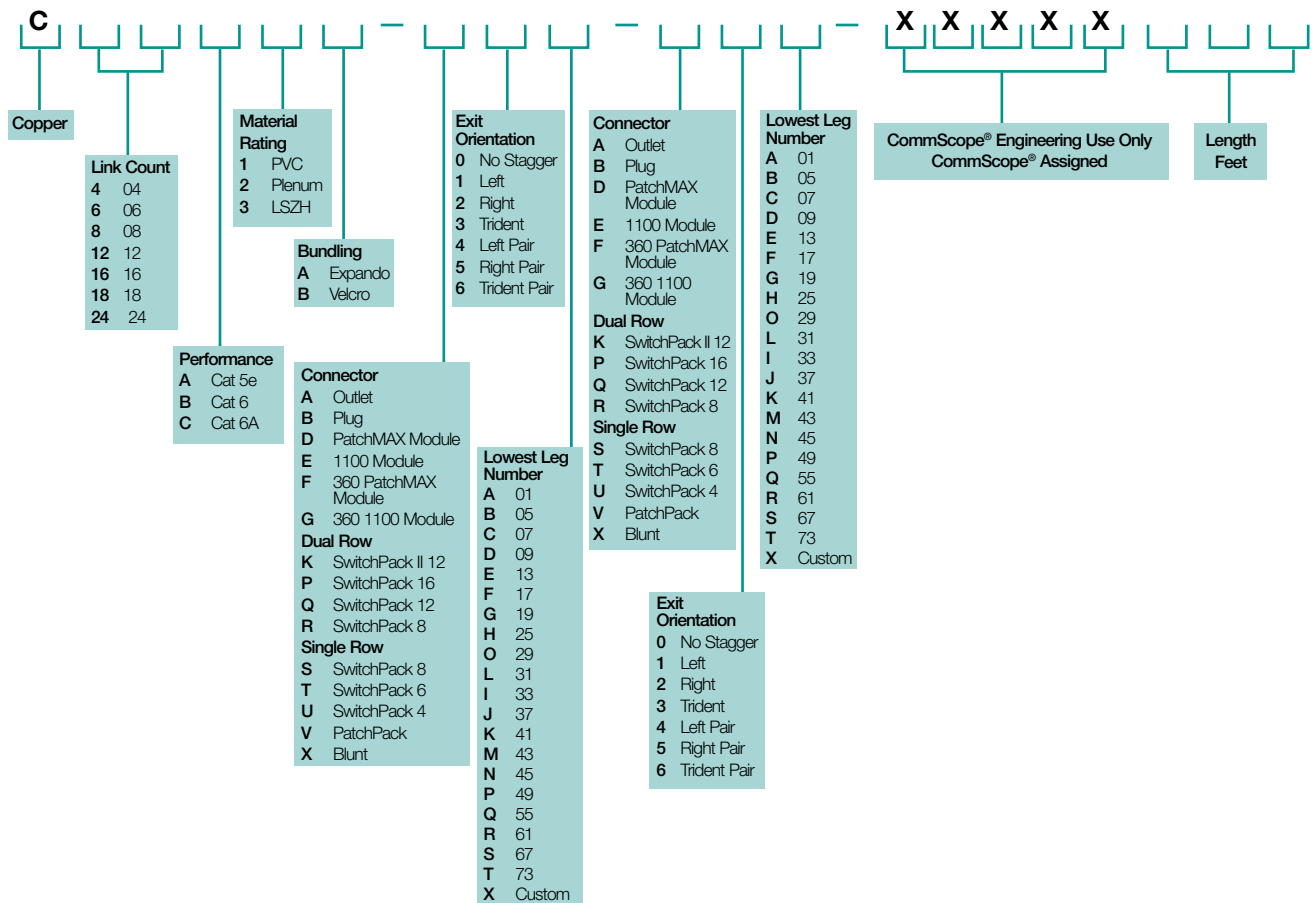
- 100% performance tested to SYSTIMAX standards
- Test reports available upon request

Performance

- SYSTIMAX GigaSPEED® XL Solution is guaranteed to meet or exceed Category 6/Class E Channel Specs to 250 MHz
- SYSTIMAX GigaSPEED® X10D Solution is guaranteed to meet or exceed Category 6A/Class E_A Channel Specs to 500 MHz

Packaging

- Copper harnesses are coiled into boxes for pulling from the equipment to the patching field or the patching field to the equipment
- Package labeling identifies installation
- Pulling eyes available



End A Connectivity Device: _____

End B Connectivity Device: _____

Example Images Key:

Connector:

A Outlet



B Plug



E 1100 Module



G 360 1100 Module



K SwitchPack II 12



Q SwitchPack 12



V PatchPack*



X Blunt



Exit Orientation:

0 No Stagger



1 Left



2 Right



3 Trident



4 Left Pair



5 Right Pair



6 Trident Pair



Bundling:

A Expando



B Velcro



Example Connecting Devices:

360 1100 GS3 Panel



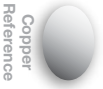
360 Modular Panel



360 PatchMAX
1100 Panel



M2100
Modular Panel



*Compatible with SYSTIMAX 1100 and PatchMAX style panels only

VisiPatch® 360 System



VisiPatch 360 System

The SYSTIMAX VisiPatch 360 System is a generation of patching systems that seamlessly incorporates patching and integrated cable management to deliver an ergonomically designed and aesthetically pleasing solution that saves time, space and money.

The VisiPatch 360 System utilizes a unique reverse patching technology that allows the patch cord to be projected away from the user and into the patching field. This design improves cord management by reducing the “spaghetti” cord clutter associated with poorly installed RJ-45 systems and makes reading the labeling information easy, facilitating future moves, adds and changes.

Both port density and usable density are increased in the VisiPatch 360 System. Because of cable and patch cord congestion in traditional RJ-45 systems, the usable density is lower than the port density. The VisiPatch 360 System, however, is designed to maximize usable density by minimizing cable and cord congestion.

The VisiPatch 360 System is available for wall-mount as well as rack-mount and cabinet installations. Plus, its modular design means that it is available for small and large installation needs.

Features and Benefits:

- Best-in-class transmission performance
- Supports 10 Gbps and 1 Gbps Ethernet applications
- Compact ergonomic components
- Modular, scalable and flexible
- Increased port density and usable density
- Easy access to patch plug
- Snap-together components
- Unique reverse patching technology
- Clear and simple port labeling
- Sleek and elegant design
- Integrated horizontal and vertical cable and patch cord management

Physical Specifications:

Patch Panel Kits:	Height:	Width:	Depth:
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:	Height:	Width:
12U 21.0 in (53.34 cm)	10.0 in (25.40 cm)	11.8 in (29.97 cm)

Electrical Specifications:

- Insulation Resistance:** >1000 MΩ min.
- Current Rating:** 2.0 A @ 20°C (68°F)
- TIA Category:** 6A
- Dielectric Withstand Voltage:** 1,000 VAC RMS, 60 Hz minimum, contact-to-contact 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, Ausetl:** Listed

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

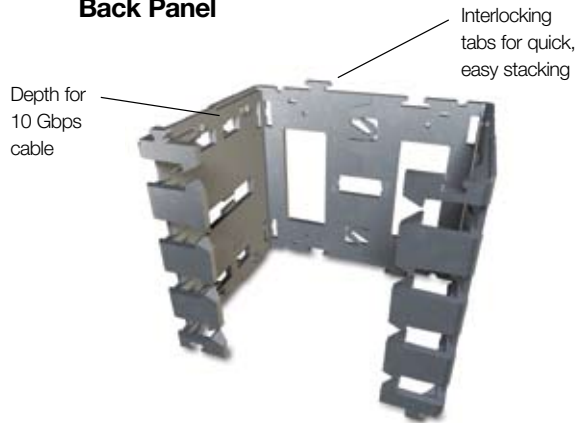
Additional Copper Connectivity

Coaxial Cable

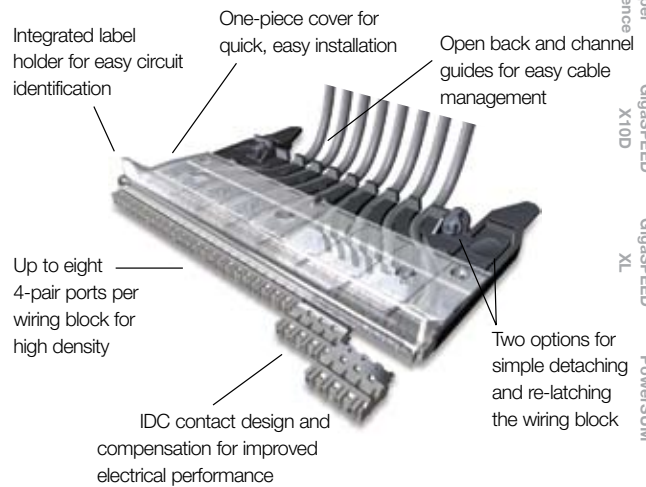
SYSTIMAX 360

VisiPatch® 360 System Overview

Back Panel



Wiring Block/Connecting Block



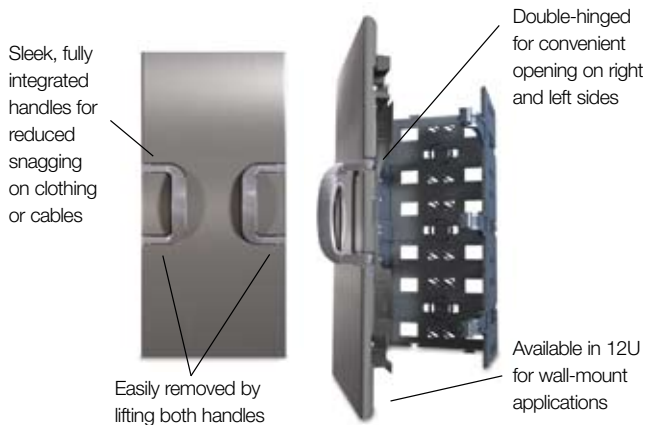
Patch Cord



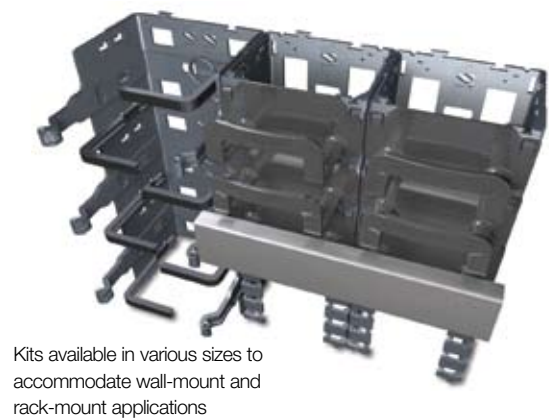
Vertical Cable Management



Vertical Trough Cover



Horizontal Cable Management



Copper Reference
GigASPEED X10D
GigASPEED XL
PowerSUM
InstaPATCH Cu
VisiPatch
Additional Copper Connectivity
Coaxial Cable

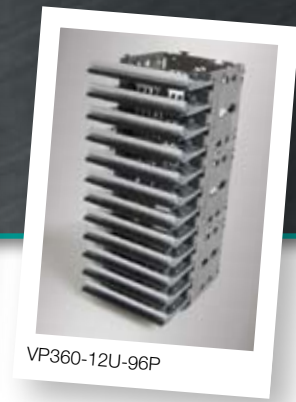
SYSTIMAX 360

SYSTIMAX®
SOLUTIONS

SYSTEMAX 360



VP360-12U-10VTCM



VP360-12U-96P

Patch Panel Kits

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-4U-32P	VisiPatch 360 4U (32-Ports) Kit			760049445
		VisiPatch 360 Back Panel 4U	1	
		VisiPatch 360 Wiring Block	4	
		VisiPatch 360 Wiring Block Cover	4	
		VisiPatch 360 Connecting Block	32	
		Label Holder	4	
VP360-12U-96P	VisiPatch 360 12U (96-Ports) Kit			760049452
		VisiPatch 360 Back Panel 12U	1	
		VisiPatch 360 Wiring Block	12	
		VisiPatch 360 Wiring Block Cover	12	
		VisiPatch 360 Connecting Block	96	
		Label Holder	12	
VP360-19PNL-KT	VisiPatch 360 19 inch 1U Kit			760074278
		VisiPatch 360 1U Panel	1	
		Wiring Block	2	
		Wiring Block Cover	2	
		VisiPatch 360 Connecting Block	16	
		Label Holder	2	
		Label Sheet	1	
		Screw, #12-24 x .50"	4	
		Instruction Sheet	1	

Cable Manager Kits - Vertical

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-12U-10VTCM	VisiPatch 360 12U Vertical Trough Cable Mgr Kit e/w Door, 10" wide			760060285
		VisiPatch 360 12U VTCM Door, 10"	1	
		4U Spacer Module	3	
		4U Spacer Module Extender	3	
		Macro Cable/Cord Retainer	3	

Cable Manager Kits - Horizontal

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-HCM-Kit-19Rack	VisiPatch 360 Horizontal Rack Mount Cable Mgr Kit, 19" wide			760068106
		Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 19"	2	
VP360-HCM-Kit-19	VisiPatch 360 Horizontal Cable Mgr Kit, 19" wide			760060343
		4U Back Panel Base	1	
		Horizontal CM Trough	2	
		Horizontal Trough Cover, 19"	2	

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

SYSTIMAX 360

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-HCM-Kit-27	VisiPatch 360 Horizontal Cable Mgr Kit, 27" wide			760060301
		4U Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 27"	2	
VP360-HCM-Kit-29	VisiPatch 360 Horizontal Cable Mgr Kit, 29" wide			760060863
		4U Back Panel Base	1	
		Horizontal CM Trough	2	
		Horizontal Trough Cover, 29"	2	
VP360-HCM-Kit-37	VisiPatch 360 Horizontal Cable Mgr Kit, 37" wide			760060871
		4U Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 37"	2	

Accessories

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-12U-Door-10	VisiPatch 360 12U Door, 10" wide			760060269
VP360-CB-10	VisiPatch 360 Connecting Block, 10/pk			760060277
		VisiPatch 360 Connecting Block	10	
VP360-4U-BPK	VisiPatch 360 4U Back Panel Kit			760060251
		VisiPatch 360 Back Panel 4U	2	
		Metal Clip	12	
VP360-SIDEPNL	VisiPatch 360 Side Panel Kit			760080630
		Side Panel	3	
		Instruction Sheet	1	
VP360-32PR-WB	VisiPatch 360 Wiring Block Kit			760074286
		Wiring Block	2	
		Index Strip	2	
		Wiring Block Cover	2	
		VisiPatch 360 Connecting Block	16	
		Label Holder	2	
		Label Sheet	1	
	Screw, #12-24 x 0.50"	4		
	Instruction Sheet	1		
VP-Voice-Kit	VP Voice Kit for 25 Pair Cable (C4)			760076943
		Wiring Block Assembly, Cool Gray	2	
		Designation Cover	2	
		C-4 Connecting Block Cool Gray	14	
		Label Holder	4	
		Label Sheet	1	
VP360-19PNL	VisiPatch 360 19" 1U Mounting Panel			760074294
		VisiPatch 360 1U Panel	1	
		Screw, #12-24 x 0.50"	4	
VP360-RMBKT	VisiPatch 360 19" Rack Mounting Bracket			760060327
		19" Rack Mounting Bracket	1	
VP360-CBF-SK	VisiPatch 360 Cable Bundle Fastener Kit, Small			760060335
		Micro Cable/Cord Retainer	4	
VP-Label	VisiPatch 360 4 Pair Cord Label		5 (260 labels/sheet)	760072488

Copper Reference

GigASPEED X10D

GigASPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

SYSTIMAX 360

SYSTIMAX 360

Copper
Reference

GigaSPEED
X10D

GigaSPEED
XL

PowerSUM

InstaPATCH
Cu

VisiPatch

Additional Copper
Connectivity

Coaxial
Cable

Product Number	Detailed Description	Qty	Material ID
110YG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Yellow	96	108528407
110WG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - White	96	108528415
110SG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Slate	96	108528423
110RG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Red	96	108528431
110PG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Purple	96	108528449
110GG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Green	96	108528456
110CG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Orange	96	108528597
110BG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Blue	96	108528464
110KG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Brown	96	108528472
VP360-8FILLERPLUG-KIT	VisiPatch 360 Filler Plug Kit (8 Filler Plugs)	8	760130104

Tool Kits

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-788-HEAD	VisiPatch 360 4-pair Head for 788 Tool	4-pair Punch Down Block	1	760060350
VP360-914-BIT	VisiPatch 360 1-pair Tool Bit for D-914 Impact Tool	1-pair Punch Down Bit	1	760060368

SYSTIMAX® VisiPatch® 360 GigaSPEED® X10D Patch Cord

SYSTIMAX VisiPatch 360 GigaSPEED X10D Patch Cords use the latest 95B series cordage. The high performance VisiPatch 360 X10D patch cord family maximizes capacity of cable managements and troughs by reducing the Diameter over Jacket (DOJ) from 0.310" to 0.285". VisiPatch 360 X10D constructions are available in non-plenum and low smoke zero halogen designs. RJ45 hybrid cords and crossover cords are available as well.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.3 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- ETL/cETL listed
- Can support network line speeds up to at least 10 gigabits per second
- Certified component of an integrated GigaSPEED X10D Solution
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel



SYSTIMAX® VisiPatch® 360 GigaSPEED X10D Patch Cord



SYSTIMAX® VisiPatch® 360 GigaSPEED X10D LSZH Patch Cord



SYSTIMAX® VisiPatch® 360 to 360GS10E 4-pair Solid Hybrid Patch Cord

Copper Reference
GigaSPEED X10D
GigaSPEED XL
PowerSUM
InstaPATCH Cu
VisiPatch
Additional Copper Connectivity
Coaxial Cable

SYSTIMAX® VisiPatch® 360 GigaSPEED X10D Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCFFX2	VP360T-VP360T-P8X10D	GigaSPEED® X10D VisiPatch® 360 to VisiPatch® 360 4 Pair Solid Patch Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFSX2	VP360T-360GS10E	GigaSPEED® X10D VisiPatch® 360 to 360GS10E 4-pair Solid Hybrid Patch Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFFXD	VP360T-VP360T-P8X10D-XD	GigaSPEED® X10D VisiPatch® 360 to VisiPatch® 360 4-pair Solid Patch Cord Crossover T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFFZ2	VP360T-VP360T-P8X10D-L	GigaSPEED® X10D VisiPatch® 360 to VisiPatch® 360 4-pair LSZH Solid Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFSZ2	VP360T-360GS10E-L	GigaSPEED® X10D VisiPatch® 360 to 360GS10E 4-pair LSZH Patch Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m

Ordering Material ID Example: CPCFFX2 - 03F007

SYSTIMAX® VisiPatch® 360 Patch Cords



VisiPatch® 360 System™ GigaSPEED® Xpress™ Patch Cord

CPC Code	Product Number	Detailed Description Options	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCFFP2	VP360-VP360-P8XP	VisiPatch 360-VisiPatch 360 XP 4 Pair Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPCFLP2	VP360-GSXP	VisiPatch 360-GSXP XP 4 Pair Solid Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPCFFQ2	VP360-VP360-P8XP-P	VisiPatch 360-VisiPatch 360 XP 4 Pair Plenum Patch Cord	0	8,Z	F,M	1-100 ft / 1-30 m
CPCFLQ2	VP360-GSXP-P	VisiPatch 360-GSXP XP 4-pair Solid Hybrid Plenum Patch Cord	0	8,Z	F,M	1-100 ft / 1-30 m
CPCFFR2	VP360-VP360-P8XP-L	VisiPatch 360-VisiPatch 360 XP 4 Pair LSZH Patch Cord	0	8	F,M	1-100 ft / 1-30 m
CPCFLR2	VP360-GSXP-L	VisiPatch 360-GSXP XP 4-pair Solid Hybrid LSZH Patch Cord	0	8	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPCFFP2 - 03F007

VisiPatch® 360 System™ GigaSPEED® XL Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCFF12	VP360-VP360-P8XL	VisiPatch 360-VisiPatch 360 XL 4 Pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCFF1D	VP360-VP360-P8XL-XD	VisiPatch 360-VisiPatch 360 XL 4 Pair Patch Cord Crossover	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCF312	VP360-GS8E	VisiPatch 360-GS8E XL 4 Pair Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPCFF12 - 03F007

VisiPatch® 360 System™ 1-Pair Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCFF62	VP360-VP360-P2PS	VisiPatch 360-VisiPatch 360 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPCF562	VP360-VP-P2PS	VisiPatch 360-VisiPatch 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPCFF62 - 03F007

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- K Pink (PK)
- L Purple (PR)
- M Green (GR)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

VisiPatch® System

The VisiPatch System uses IDC technology for optimum patch cord organization and management. The system provides GigaSPEED XL performance which is a clear advantage in data center applications. The unique “reverse direction” design provides a neat, cordless appearance that dramatically improves patch cord management and “avoids the clutter” that is inherent with other patch cord systems. The modular approach in the design maximizes the overall flexibility of the system. The system is lightweight, stackable and the components snap together for ease of installation.

Features and Benefits:

- Proven SYSTIMAX performance
- Supports GigaSPEED XL channels
- 4-pair Patch Cord certified GigaSPEED XL component
- Fast, easy installation with low operating costs
- Innovative reverse patch cord design
- Neat, cordless appearance
 - Seven 4-pair cables per row
 - Up to 252 4-pair cables per vertical
- Unique plastic construction
- Snap-together components
- 28-port (112-pair) and 84-port (336-pair) stackable field terminated kits
- Superior patch cord routing and management
- Higher usable density

Back Panel The back panel is the backbone of the VisiPatch System. This patented wall mounting hardware consists of two identical “L”-shaped halves that snap together to form a strong “U”-shaped panel. The lightweight panel can be easily mounted to support multiple mounting options. The back panel holds 4 or 12 wiring blocks to conform to any size installation.

Wiring Block The wiring block snaps into the back panel and accepts up to seven 4-pair cables (28 conductor pairs). It also accepts 25-pair count cables using 5-pair connecting blocks (25 conductor pairs). The wiring block entrance slot and grooves provide versatile cable management. This support feed system allows up to seven 4-pair cables for each wiring block.

Designation Strip/Cover Plate The cover plate snaps directly on to the wiring block and provides protection for the terminated cables. The two piece, clear plastic design provides easy access to the cables and enables visual verification of cable termination quality without moving any components. The pivoted plastic label holder also serves as a designation strip for circuit identification and facilitates the latching of the patch cord.

EIA Panel Assembly The VisiPatch 19 in EIA 1U Panel Mount solution is designed to support rack-mounted installations of the VisiPatch System. The 1U panel terminates up to 56 cable conductor pairs and provides flexibility to scale applications from small and up to large installations. Using the 1U panel in smaller applications such as in a telecommunications closet provides an economical solution for supporting a variety of circuit type applications such as IP, ISDN, Digital Voice, and Analog/Voice/Fax/Modem. Larger data center applications where more terminations are required provide a neat and flexible alternative to RJ45 patch panels.

The VisiPatch 19 in EIA 1U panel and the 56-pair wiring block assembly kits can be ordered separately or as a complete kit.

Physical Specifications:

Height: 110UB1-112FT: 7.2 in (19.05 cm)
110UB1-336FT: 21.6 in (54.86 cm)

Width: 8.5 in (21.59 cm)

Depth: 7.5 in (19.05 cm)

Pairs per row: 28

Pairs per back panel: 110UB1-112FT: 112
110UB1-336FT: 336

Patch cords per row: 7 (4-pair cords)



VisiPatch System



VisiPatch Back Panel



VisiPatch Wiring Block



VisiPatch Designation Strip, Cover Plate and Label Holder



Patch Panel Kits

Product Number	Detailed Description	Contents	Qty	Material ID
110UB1-112FT	VisiPatch System, 112-pair	100PR Base, Back Panel Half	2	108836792
		110UW-28, Wiring Block	4	
		110UC-28, Designation Cover	4	
		110C4W, Connecting Block	30	
		110UPHLDR, Label Holder	4	
		110WG3-2688L, White Label	12	
110UB1-336FT	VisiPatch System, 336-pair	Instruction Sheet	1	108561143
		300PR Base, Back Panel Half	2	
		110UW-28, Wiring Block	12	
		110UC-28, Designation Cover	12	
		110C4W, Connecting Block	84	
		110UPHLDR, Label Holder	12	
VP19PNLKT	VisiPatch 19 in EIA 1U Rack Mount Panel Kit	110WG3-2688L, White Label	12	760047654
		Instruction Sheet	1	

Cable Manager Kits

Product Number	Detailed Description	Material ID
110U19M	Rack Mount Bracket	108634429
110UHPT-Universal Trough	Universal Horizontal Trough (1 pair of troughs)	108836834
Trough Kit	Trough, U Channel to mount below VisiPatch components on wall (1 pair of troughs and 1 pair of back panel halves)	700012990

Accessories

Product Number	Detailed Description	Material ID
110U2R	Distribution Ring	108523937
110UTC	Trough Cover	108593203
110UHD-S8	Horizontal Duct	108637737
110UP-WB	Wall Mount Bracket	108688946
110UHS20	Installation Spacer	108637612
110UGND	Ground Bar	108561135
110UHWSD	Spacer Duct	700032766
110YG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Yellow	108528407
110WG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - White	108528415
110SG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Slate	108528423
110RG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Red	108528431
110PG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Purple	108528449
110GG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Green	108528456
110CG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Orange	108528597
110BG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Blue	108528464
110KG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Brown	108528472
Mounting Bar	Bar, Mounting 19" Rack for 110 Application	760031948
110FDLH	Label Holder (1pk = 4 strips)	108738113
110C4W	Connecting Block	108538612
VP56PRWBK	VisiPatch 56 Pair Wiring Block Kit (2x wiring blocks, 2x designation covers, 14x connecting blocks)	760047688
VPPNLKIT-336	Kit includes 4 VisiPatch 336 L-beam Back Panels	760054833
VPPNLKIT-112	Kit includes 4 VisiPatch 112 L-beam Back Panels	760054387
Trough Half Cover	VisiPatch Vertical Trough Half Cover	760054742
M110 Bit	Extended M110 Bit for D-914 Tool	760064568
VP19RKMT	VisiPatch 19" EIA 1U Rack Mount Panel	760046490

VisiPatch® Patch Cords

The VisiPatch Patch Cords utilize a patented connector design that allows the cordage to be neatly routed back toward the VisiPatch panel rather than to project forward. The connector snaps on with an audible click and features an anti-snap device, which allows the cord to be easily removed from the panel. The 1-, 2-, and 4-pair patch cords provide complete flexibility for all circuit types to accommodate IP, ISDN, digital voice, analog/voice/fax/modem applications. The 2- and 4-pair cords support GigaSPEED XL performance for higher bandwidth data applications. The 1-pair cord supports voice, fax and modem applications. The 119 cords use the VisiPatch connector design terminated to a GigaSPEED connector.

The VisiPatch 1-pair Field Terminated Plug and Cordage Kits provide an alternative solution to pre-assembled fixed length patch cords for applications such as voice, fax, and modern systems and low speed data where performance is not the key driver. In these applications, there is a need for variable length patch cords, where customers are able to field terminate patch cords to suit the needs of their cross-connect layout. With the 1-pair Field Terminated kit, customers can customize the length of the patch cord and help eliminate clutter and slack that can build up in the vertical cable management areas.

The 1-pair Field Terminated Plug Kit provides piece parts to assemble up to 10 patch cords. Each kit contains detailed instructions to properly assemble the patch cords. The cordage kit contains 100 ft of 1074 series one-pair cordage. The patch cord kit is easy to assemble and no special tools are required. Minimal experience is required for termination and the average time to assemble one patch cord takes approximately 30 seconds. Refer to instruction sheet included in kit for detailed information.

The 1-pair Patch Plugs are designed to terminate 1074 cordage. Termination of other cordage may not be reliable.

Physical Specifications:

- Contact Material:** Phosphor Bronze
- Contact Plating:** Gold 2 to 5 micro-inch (0.051 to 0.128 microns)
Nickel 75 micro-inch (1.91 microns)
- Insertion Life:** 200 minimum
- Plug Material:** Polycarbonate Blend UL-rated 94 V-0
- Operating Temperature:** 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

TIA Category: 6

Safety Certifications:

ETL/cETL Listed



Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

VisiPatch Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cordage Length Options
CPC5512	VP-P8GS	VisiPatch-VisiPatch 4-pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC5312	VP119-P8GS	VisiPatch-GS8E 4-pair Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC5311	VP119-P8GS-A	VisiPatch-GS8E 4-pair Hybrid Patch Cord (A-wired)	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC5482	VP117-P8GS-S	VisiPatch-Single-end 4-pair Solid Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPC5552	VP-P4PS	VisiPatch-VisiPatch 2-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5652	VP119-P4PS	VisiPatch-D8PS 2-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5658	VP120-P4PS	VisiPatch-D8PS 2-pair Hybrid Patch Cord (120 version)	0	3	F,M	1-100 ft / 1-30 m
CPC5562	VP-P2PS	VisiPatch-VisiPatch 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5662	VP119-P2PS	VisiPatch-D8PS 1-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5862	VP-110-P2PS	VisiPatch-110 1-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPC5512-03F007

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters

Product Number	Detailed Description	Material ID
VP1PRFTRM	VisiPatch 1-pair Field Term Cord Plug Kit	760047662
VP1PCORD 100 ft	VisiPatch 1-pair cordage 100 ft	760047993

CommScope® SFP+ (Small Form Factor Pluggable) High Speed Copper Cable Assembly

The CommScope® SFP+ (Small Form Factor Pluggable) High Speed Copper Cable Assembly is a cost-effective high-performance interconnect solution for switches, servers and routers. It meets the performance requirements of specification SFF-8431 and supports 8G fiber channel and 10G Ethernet applications. It is an ideal solution for connecting a server to top of the rack switches or between adjacent switches. The low power, low latency SFP+ cable assemblies facilitate efficient signal transportation between ports.

Features and Benefits:

- Supports data rate of up to 10Gb/s
- Backward compatible with SFP
- Compliant to SFF-8431 and SFF-8432
- 3.3 V I2C EEPROM for system configuration
- Pull-to-release mechanism
- Optimized design for signal integrity
- Cost-effective copper solution
- RoHS compliant

Applications:

- High capacity network server and storage
- High speed I/O fabric switches and routers
- Data center cabling
- Networking equipment connection

Electrical Performance:

Differential Impedance:

Connector: 100+/- 10 ohm

Bulk Cable: 100+/- 5 ohm

Within-Pair Skew: 10 ps/m (max.)

NEXT: < -30db (to 5GHz)

Cable Assembly Attenuation @ 5GHz:

28 AWG < (2.8 dB/m) x L + 1.0 dB

24 AWG < (2.0 dB/m) x L + 1.0 dB

CommScope CS-SFPPP Copper SFP+ Cable Passive Assembly

- Passive cable assembly supports up to 10 M
- Suitable for short reach application

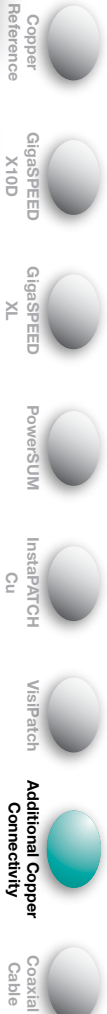
Detailed Description	Conductor Size	Material ID
CS-SFPPP-28005 SFP+ Cable Assembly 0.5M Passive	28 AWG	760123950
CS-SFPPP-28010 SFP+ Cable Assembly 1M Passive	28 AWG	760123968
CS-SFPPP-28020 SFP+ Cable Assembly 2M Passive	28 AWG	760123976
CS-SFPPP-24030 SFP+ Cable Assembly 3M Passive	24 AWG	760123984
CS-SFPPP-24040 SFP+ Cable Assembly 4M Passive	24 AWG	760123992
CS-SFPPP-24050 SFP+ Cable Assembly 5M Passive	24 AWG	760124008
CS-SFPPP-24060 SFP+ Cable Assembly 6M Passive	24 AWG	760124016
CS-SFPPP-24070 SFP+ Cable Assembly 7M Passive	24 AWG	760124024
CS-SFPPP-24080 SFP+ Cable Assembly 8M Passive	24 AWG	760124032
CS-SFPPP-24090 SFP+ Cable Assembly 9M Passive	24 AWG	760124040
CS-SFPPP-24100 SFP+ Cable Assembly 10M Passive	24 AWG	760124057

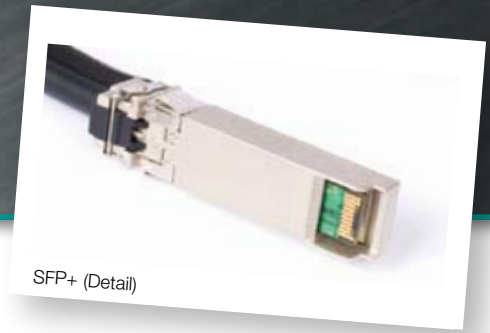


SFP+



SFP+ (Detail)





SFP+ (Detail)

CommScope CS-SFPPA Copper SFP+ Cable Active Assembly

- Ultra lower power
- Longer reach through signal conditioning
- Amplitude equalization
- Group delay equalization
- Skew correction
- Crosstalk reduction
- Lowest total system EMI
- Most cost-effective high speed interconnect

Detailed Description	Conductor Size	Material ID
CS-SFPPA-24110 SFP+ Cable Assembly 11M Active	24 AWG	760124065
CS-SFPPA-24120 SFP+ Cable Assembly 12M Active	24 AWG	760124073
CS-SFPPA-24130 SFP+ Cable Assembly 13M Active	24 AWG	760124081
CS-SFPPA-24140 SFP+ Cable Assembly 14M Active	24 AWG	760124099
CS-SFPPA-24150 SFP+ Cable Assembly 15M Active	24 AWG	Factor

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

SYSTIMAX 360™ Modular Panel



SYSTIMAX 360™ Modular Panel

The 24 port modular panel offers enhanced rear cable management making the cable routing and installation process easier and quicker. The SYSTIMAX

360 modular panel accommodates SYSTIMAX MGS Series information outlets and PowerSUM information outlets. Along with the SYSTIMAX 360 GigaSPEED X10D MGS600 Information Outlets and 360GS10E Patch Cords, the modular panel offers a true end-to-end 10G solution.

Features and Benefits:

- Eliminates the need for separate tie wrap components and offers facilitated installation and panel back dressing through simplified cable bundling
- Supports the deployment of InstaPATCH® Cu pre-terminated copper solutions
- Available in a 24 port (1U) configuration
- Features the elegant SYSTIMAX 360 design
- Operating Temperature: 14°F to 140°F (-10°C to 60°C)
- Overall Height: 1.75 in. (4.45 cm)
- Overall Width: 19 in. (48.26 cm)
- Depth – includes cable management: 7.2 in. (18.29 cm)

Product Number	Detailed Description	Material ID
360-MOD-1U-24	360 Modular 24 Port Patch Panel	760104273
360-MOD-1U-BEZEL	360 Modular Panel Bezel Kit	760104463
360-MOD-1U-LABEL	360 Modular Panel Label Kit	760104281
360-MOD-1U-LABEL-A4	360 Modular Panel Label Kit A4	760109728

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

CommScope M4800/M4800A 1U High Density Modular Panel



M4800 1U High Density Modular Panel



M4800A 1U High Density Modular Panel

Unlike traditional 48 port panels, the M4800/4800A panels occupy only 1U of rack space. The M4800-1U-GS panels accommodate GigaSPEED XL and X10D MGS Information Outlets while the M4800-1U-PS panels accommodate PowerSUM Information Outlets.

Primarily configured for modular copper applications, the M4800 allows for accessibility through the front or rear of the panel and its flexible design allows the installer to add outlet ports as needed. The M4800 provides 48 M-Series ports in 1U rack or cabinet space and the M4800 modular panel accepts GigaSPEED, PowerSUM apparatus and mounts in a 19-inch (483 mm) rack with universal hole spacing. The M4800 panel kits include 50 low profile outlet stuffer caps for use with either SYSTIMAX M-Series information outlets. Outlet removal tool is required and must be purchased separately. There is also an optional rack mountable rear cable management system available for consistent cable routing.

Features and Benefits:

- Available in a 48 port (1U) configuration
- Angled or flat
- Supports both 10G, 1G and 100M applications
- Supports all copper modular connectors
- Panel kits include low profile module stuffer caps
- InstaPATCH® Cu friendly design which coincides with scalability
- Optional rack mountable rear cable management system
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution

Product Number	Detailed Description	Material ID
M4800-1U-GS	M4800 1U 48-Port Panel - GS	760105429
M4800-1U-PS	M4800 1U 48-Port Panel - PS	760104307
M4800A-1U-GS	M4800A 1U Angled 48-Port Panel - GS	760109744
M4800A-1U-PS	M4800A 1U Angled 48-Port Panel - PS	760109736
MGS-CAP-10	MGS Cap Kit – LP, pack of 10	760105486
MPS-CAP-10	MPS Cap Kit – LP, pack of 10	760105478
MPS-CAP-50	MPS Cap Kit – LP, pack of 50	760105437
360-RCM-RM	Rear Cable Management System (Rack Mountable)	760104737
RMLTOOL	Outlet Removal Tool Kit (5 pack)	760122713

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

CommScope M2000 Modular Patch Panel

The M2000 Modular Patch Panel is a panel designed for CommScope outlets that can be configured for copper, fiber, or both and is available in 24-port (M2000-1U) and 48-port (M2000-2U) versions. Both the M2000-1U and M2000-2U panels mount in a 19-inch (483 mm) rack with universal hole spacing.

The M2000-1U and M2000-2U include a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

The M2000-1U and M2000-2U Panels now include M2000 Cable Organizers. The M2000 Cable Organizer is a molded plastic design that is snapped into each 6-port bezel. The 24 port 1U panel includes 4 cable organizers and the 48 port 2U panel includes 8 cable organizers. The 6 4-pair cables from each bezel are routed and positioned to the cable organizer. Cable ties are included to secure the cables.

M2000 Cable Organizers are not included with the M2000 1U and 2U Angled Panels. The M2000 Angled Panels include a cable management bar.

Also available and sold separately are M2000 1U Patch Cord Managers and M2000 2U Patch Cord Managers. These patch cord managers are metal rings that mount to the front of the panel. 5 patch cord managers are used for each 24 port 1U panel. The M2000 1U Patch Cord Manager Kit is a package of 5 patch cord managers.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Electrical performance guaranteed to meet or exceed ANSI/TIA-568-C.2 Category 6 and ISO/IEC Category 6/Class E specifications when used with MGS400 connectors
- Available in 24-port and 48-port configurations
- Labeling and identification for each port
- Supports copper and fiber connectors

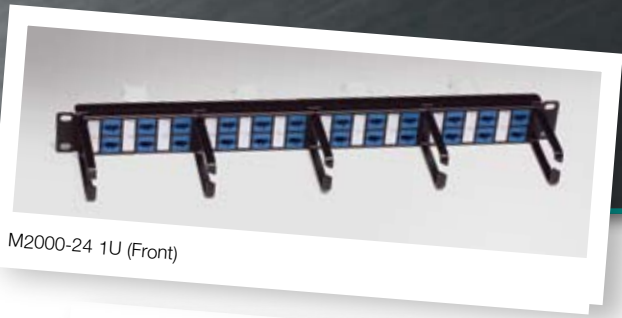
Physical Specifications:

Height: 24-Port: 1.75 in (44.1mm)
48-Port: 3.5 in (88.9 mm)

Width: 19 in (48.3 cm)

Depth: 1.2 in (30.48 mm)

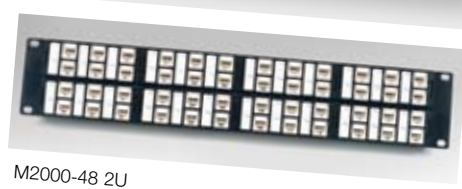
Product Number	Detailed Description	Modules/Ports	Material ID
M2000-24 1U	M2000 24-Port 1U Panel	24 Ports	760049932
M2000-48 2U	M2000 48-Port 2U Panel	48 Ports	760049940
M2000A-24 1U (Angled)	M2000A 24-Port 1U Panel (angled)	24 Ports	760049957
M2000A-48 2U (Angled)	M2000A 48-Port 2U Panel (angled)	48 Ports	760049965
M2000 Cable Mgt Bar	M2000 Cable Management Bar		760054627
M2000 Custom Label Kit	M2000 Panel Custom Label Kit		760060392
M2000 1U Cord Manager Kit	M2000 1U Cord Manager Kit		760069278
M2000 2U Cord Manager Kit	M2000 2U Cord Manager Kit		760073486
Angled Panel Cover	Angled Panel Cover		760091504



M2000-24 1U (Front)



M2000-24 1U (Back)



M2000-48 2U



M2000 1U Cord Manager Kit

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

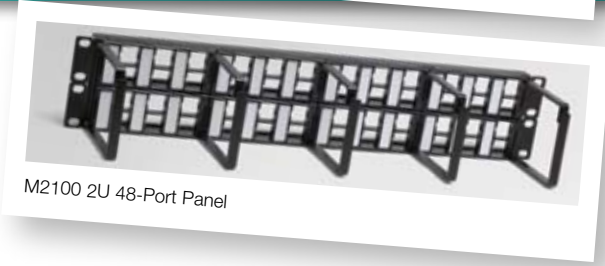
Additional Copper Connectivity

Coaxial Cable

CommScope M2100 Modular Patch Panel



M2100 1U 24-Port Panel



M2100 2U 48-Port Panel

The panel is available in a 24-port 1U and 48-port 2U configuration with integrated horizontal front cord managers, eliminating the need for separate cord management. The M2100 includes 4 or 8 plastic rear cable organizers, each holding up to six 4-pair cables. The M2100 also includes vertical mounting labels and label holders providing space for identification of each port. Port designations can be printed on the label sheet. Individual port labels are trimmed from the label sheet, placed in the label area, and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder. This panel supports copper CommScope outlets as well as fiber applications.

Features and Benefits:

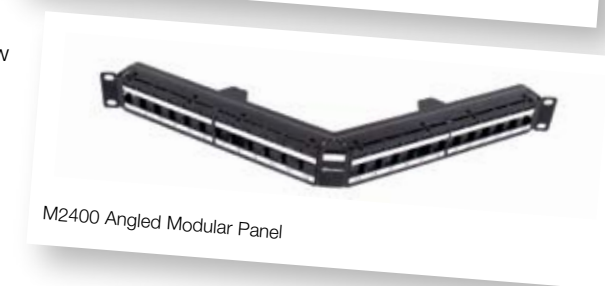
- Consists of a rack mountable base unit with front integrated cord management
- Bezel labels with label holders included for standard port numbering
- Mounts to 19-inch (483 mm) equipment rack with universal hole spacing
- Accepts up to 24 or 48 M-Series information outlets and other CommScope outlets for patching and interconnection in the Data Center, telecommunications closet or equipment room
- Supports Category 5e, Category 6 and Category 6A installations
- Labeling and identification provided for each port
- Supports copper and fiber connectors

Product Number	Detailed Description	Modules/Ports	Material ID
M2100-24	M2100-1U Modular Patch Panel	48 Ports	760101220
M2100-48	M2100-2U Modular Patch Panel	48 Ports	760077842

CommScope M2400 Modular Panel



M2400 Modular Panel



M2400 Angled Modular Panel

Features and Benefits:

- Available in a 24 port (1U) configuration with ports in a single row
- Single row angled or flat
- GS version supports MGS400, 500 & 600 copper connectors
- PS version supports UNJ500, 600, M1BH & MPS100 copper connectors
- Panel kits include new low profile module stuffer caps
- InstaPATCH® Cu (GS version) and ReadyPATCH™ Cu (PS version) friendly design which coincides with scalability
- Optional rack mountable rear cable management system
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution

Product Number	Detailed Description	Modules/Ports	Material ID
M2400-1U-GS	U/UTP Flat Single-Row Modular Panel, (MGS400/500/600)	24 Ports	760118323
M2400A-1U-GS	U/UTP Angled Single-Row Modular Panel, (MGS400/500/600)	24 Ports	760118349
M2400-1U-PS	U/UTP Flat Single-Row Modular Panel, (UNJ500/600, M1BH, MPS100)	24 Ports	760118315
M2400A-1U-PS	U/UTP Angled Single-Row Modular Panel, (UNJ500/600, M1BH, MPS100)	24 Ports	760118331

- Copper Reference
- GigaSPEED X100
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

CommScope M3000 Modular Patch Panel

The M3000 Modular Patch Panels are patch panels for CommScope outlets that can be configured for copper, fiber, or both. The M3000 is a 24-port panel and can mount in a 19-inch (483 mm) rack with universal hole spacing.

The M3000 panel incorporates rear cable management for consistent cable routing and management.

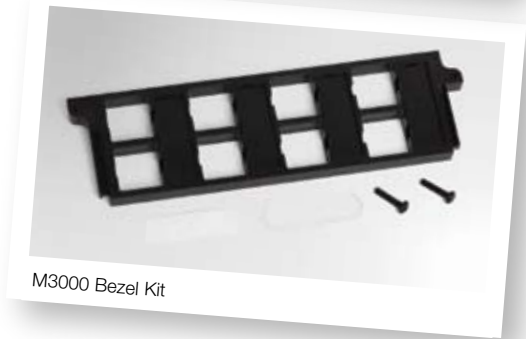
The M3000 includes a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet, and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

Physical Specifications:

Height: 1.75 in (44.1 mm)

Width: 19 in (483 mm)

Depth: 3.7 in (93.9 mm)



Product Number	Detailed Description	Modules/Ports	Material ID
M3000-24	M3000 1U 24-Port Panel	24 Ports	760065391
M3000 Bezel Kit	M3000 8-Port Bezel Kit	8 Ports	760065417
M3000	M3000 Custom Label Kit		760060392

Copper Reference

GigASPEED X10D

GigASPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

CommScope M3200 Modular F/UTP Patch Panel



M3200

The CommScope M3200 Modular Patch Panel is a patch panel for M-Series F/UTP outlets that can be configured for copper, fiber, or both and is available in a 24-port version. The M3200 panel mounts in a 19-inch (483 mm) rack with universal hole spacing.

The M3200 panel incorporates rear cable management for consistent cable routing and grounding studs for reliable grounding of the cable shield. The M3200 includes a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet, and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- Available in 24-port configuration
- Labeling and identification for each port
- Supports copper and fiber connectors
- Qualifies for the CommScope 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP channel

Physical Specifications:

Height: 24-Ports: 1.75 in (4.45 cm)

Width: 19 in (48.20 cm)

Depth: 4.16 in (10.60 cm)

Product Number	Detailed Description	Modules/Ports	Material ID
M3200	M3200 Modular Patch Panel	24 Ports	760058578
M3200 Custom Label Kit	8.5 x 11, 6 Rows of 12 Labels, Supports 6U of Labeling		760060392

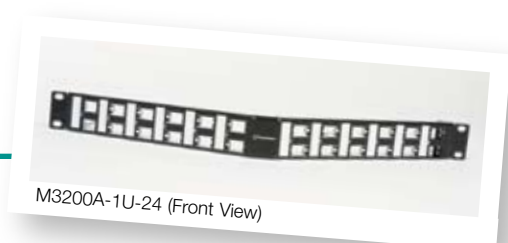
CommScope M3200 F/UTP Angled Modular Panel

Primarily configured for F/UTP copper applications, the M3200A allows for accessibility through the front or rear of the panel and its flexible design allows the installer to add outlet ports as needed. The M3200A provides 24 ports in 1U of rack space.

The M3200A modular panel accepts Category 6A, Category 6, and Category 5e apparatus and mounts in a 19-inch (483 mm) rack with universal hole spacing. The M3200A panel incorporates panel mounted rear cable management for consistent cable routing and grounding studs for reliable grounding of the cable shield.

Features and Benefits:

- Available in 24-port configuration
- Labeling and identification for each port
- Includes integrated rear cable management
- Supports CommScope modular F/UTP copper connectors
- Qualifies for the CommScope 20-Year Extended Warranty and Applications Assurance when included as part of a registered F/UTP channel



M3200A-1U-24 (Front View)



M3200A-1U-24 (Rear View)

Product Number	Detailed Description	Modules/Ports	Material ID
M3200A-1U-24	M3200A 24-Port Modular FTP Panel	24 Ports	760106492

CommScope 36 Port Modular Panel

Features and Benefits:

- Available in a 36 port (1U) configuration
- Angled and flat options
- Supports SYSTIMAX and Uniprise copper connectors
- InstaPATCH® Cu and ReadyPATCH™ Cu friendly
- Integrated rear cable management
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution

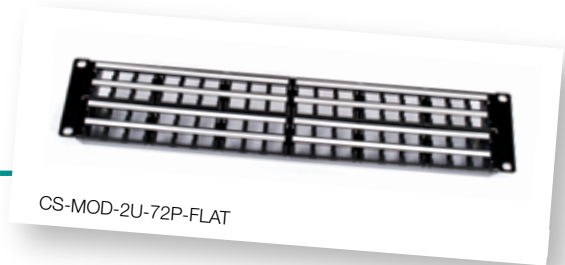


Product Number	Detailed Description	Ports	Material ID
CS-MOD-1U-36P-FLAT	U/UTP Flat Modular Panel	36 Ports	760118182
CS-MOD-1U-36P-ANG	U/UTP Angled Modular Panel	36 Ports	760118208

CommScope 72 Port Modular Panel

Features and Benefits:

- Available in a 72 port (2U) configuration
- Angled and flat options
- Supports SYSTIMAX and Uniprise copper connectors
- InstaPATCH® Cu and ReadyPATCH™ Cu friendly
- Integrated rear cable management
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution



Product Number	Detailed Description	Ports	Material ID
CS-MOD-2U-72P-FLAT	U/UTP Flat Modular Panel	72 Ports	760118190
CS-MOD-2U-72P-ANG	U/UTP Angled Modular Panel	72 Ports	760118216

- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

CommScope FlexiMAX Patch Panel



FlexiMAX Panel

The SYSTIMAX FlexiMAX Panel is an alternative modular panel that allows for patching and interconnection in the telecommunications closet or equipment room. The FlexiMAX 24-port panel can hold up to 24 MGS500, MGS400 or MPS100E modules (not included). The front appearance of the panel comprises two rows of square punchouts, which allow ease of installation and access to the modules.

Physical Specifications:

Height: 1.73 in (4.4 cm)
Width: 19 in (48.3 cm)
Depth: 4.17 in (10.6 cm)

Residential Physical Specifications:

Height: Standard 1U
Width: 10 in (25.4 cm)
Depth: 3.14 in (8.0 cm)

Detailed Description	Modules/Ports	Material ID
FlexiMAX Panel	24 Ports	108356312
FlexiMAX Residential Panel (10 inch)	12 Ports	760026799

CommScope MultiMAX Panel



M1000P5 with Spool, Wiring Guide, Mounting Collars

Designed for premises data and voice networks employing copper and/or fiber terminations, the M1000P5 MultiMAX Panel is an aluminum panel that provides for patching or interconnect in the telecommunications closet or equipment room. Mounting options for the 3.5 in (8.9 cm) high M1000P5 panel include a standard EIA 19 in (48.3 cm) rack or a hinged wall mount bracket. Packaged with the panel are mounting collars for up to 24 modular outlets or fiber connections and two wire guides for cord management. For copper terminations, the mounting clips provide a fixture for holding the M-series modular information outlets when terminating conductors and also provide strain relief for the cable when snapped into the panel. Mounting clips also accommodate the M81LC, M81ST and M81SC for fiber terminations.

In addition to the above and ordered separately are the M1000FSSK (Fiber Spool Storage Kit); the M1000FMK (Fiber Mounting Kit) for fiber terminations; and the M1000WG (Wire Guides) for cord management. The M1000FSSK mounts on the rear of the M1000P5, provides fiber storage and manages the slack in the fiber, while maintaining the necessary minimum bending radius.

Physical Specifications:

Height: 3.5 in (8.9 cm)
Width: 19 in (48.3 cm)
Depth: 7 in (17.8 cm)

Catalog Number	Detailed Description	Modules/Ports	Material ID
M1000P5	24-Port Panel w/ 25 Mounting Clips, 4 Screws and 2 Wire Guides	24 Ports	108006198
M1000FSSK	Fiber Storage Spool Kit w/ 6 Single-mode Fiber Guides and 3 Wire Guides		107535080
M1000FMK	Duplex SC Fiber Mounting Kit w/ 1 Collar Lock		107535072
M1000WG	Wire Guide		107382525
M1000PMC-B	Mounting Collars (pack of 25)		108006206

Ruggedized Connectivity Solution for Harsh Environments

The CommScope Ruggedized Connectivity Solution is designed to support applications such as military telecommunications equipment, utility instrumentation panels, pharmaceutical laboratories and equipment, industrial ethernet sensors, and factory floor automation. The CommScope ruggedized product family includes a ruggedized connector housing for Category 5e and Category 6, the respective configurable patch cords, protective caps and faceplates.

The CommScope ruggedized connectors meet IP65 and IP67 environmental testing for use in industrial applications, where potential exposure to liquid and dust is expected. The connector consists of a jack assembly and a plug assembly that form an IP65 and IP67 rated seal. The jack assembly accepts standard CommScope Category 6 and Category 5e CommScope outlets and mounts in a corrosion resistant faceplate that can be mounted to a standard single or double wall outlet box. The plug assembly is pre-assembled to a GS8E patch cord. The plug assembly also provides an IP67 rated seal with the cord, as well as strain, flex and impact relief.

Features and Benefits:

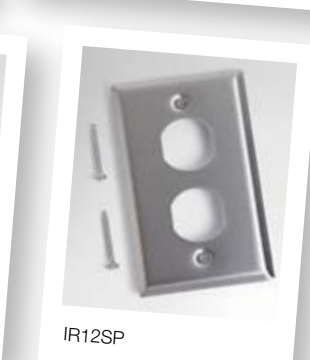
- Audible, tactile and visual confirmation of engagement
- Avoids accidental disconnects
- Resistant to water and dust exposure and humidity
- Mechanical cable strain, flex and impact relief
- Robust keying of jack housing to faceplate

Physical Specifications:

Faceplate Width: 2.75 in (single gang) (7 cm)
4.56 in (double gang) (11.6 cm)
Faceplate Height: 4.5 in (11.4 cm)
Size of Opening to Accept Receptacle: approx 1.1 in (2.8 cm)
Plug Diameter: 1.15 in (2.9 cm)
Material: High impact plastic
Temperature: -13°F to 185°F (-25°C to 85°C)

Electrical Specifications:

Standards: IP65 and IP67
UL and cUL Listed



Ruggedized Connectivity Solutions

Product Number	Detailed Description	Material ID
MIR-RJ45	M-Series Ruggedized Receptacle	760042960
MIB-2 Port Industrial Box	M-Series Industrial Box	760080820
MIR-CAP	Ruggedized Receptacle - Cap	760042978
IR11SP	Faceplate—Single Gang—1-Port—Stainless Plate	760042994
IR12SP	Faceplate—Single Gang—2-Port—Stainless Plate	760043000
IR22SP	Faceplate—Double Gang—2-Port—Stainless Plate	760043026
IR24SP	Faceplate—Double Gang—4-Port—Stainless Plate	760043018



Copper Reference



GigaSPEED X10D



GigaSPEED XL



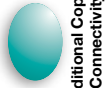
PowerSUM



InstaPATCH Cu



VisiPatch



Additional Copper Connectivity



Coaxial Cable

Ruggedized GS8E Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cordage Length Options
CPCCC12	GS8E-IP-C	GS8E Ruggedized Plug, Coiled Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	FM	1-100 ft / 1-30 m
CPCC312	GS8E-IP-C-GS8E	GS8E Ruggedized Plug, Coiled Strain Relief to GS8E, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	FM	1-100 ft / 1-30 m
CPCC412	GS8E117-IP-C	GS8E Ruggedized Plug Single-ended, Coiled Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	FM	1-100 ft / 1-30 m
CPCDD12	GS8E-IP-D	GS8E Ruggedized Plug, Domed Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	FM	1-100 ft / 1-30 m
PCPD312	GS8E-IP-D-GS8E	GS8E Ruggedized Plug, Domed Strain Relief to GS8E, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	FM	1-100 ft / 1-30 m
PCPD412	GS8E117-IP-D	GS8E Ruggedized Plug Single-ended, Domed Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	FM	1-100 ft / 1-30 m
CPCCD12	GS8E-IP-C-D	GS8E Ruggedized Plug, Coiled-Domed Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	FM	1-100 ft / 1-30 m

Ordering Material ID Example: **C P C C C 1 2 - 0 3 F 0 0 7**

Jack Color Options

- 0 Not Applicable
- 1 Black (BK)
- 2 Blue (BL)
- 3 Gray (GY)
- 4 Green (GR)
- 5 Ivory (IV)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)

Cord Color Options

- 1 Black (BK)
- 2 Light Blue (LB)
- 3 Dark Gray (DG)
- 4 Spring Green (GN)
- 6 Orange (OR)
- 7 Red (RD)
- 8 White (WH)
- 9 Yellow (YL)
- B Lilac (LL)
- C Slate (SL)
- Z Blue (BL)

Unit of Measure (UOM)

- F Feet
- M Meters



CPCDD12 (GS8E-IP-D) GS8E Domed Strain Relief



CPCCC12 (GS8E-IP-C) GS8E Coiled Strain Relief

Copper Reference

GigASPEED X10D

GigASPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Category 3 50-Port High Density Voice Panel



Category 3 50-Port Panel

The SYSTIMAX Category 3 50-Port High Density Voice Patch Panel is designed to provide a cost effective and simple way to feed PBX or other simple voice circuits into a structured cabling system.

The High Density Voice Patch Panel provides 50 voice ports in a compact 1U high format. Each port is clearly identified front and rear and is capable of carrying up to three voice pairs. Functional earth facilities where required (e.g. Earth Loop Recall) can be simply catered to by commoning any single pair across the panel. Each panel is supplied with a fixing and earthing kit.

Features and Benefits:

- Standard 19" rack mount 1U high
- Black semi-gloss
- 110 type wire termination
- Quick fit cable tie fixing points
- RJ45 sockets are 8 position, 8 contact socket with gold plated contacts
- Standard 19" fixings and earthing kit accessories supplied
- Numbered individual ports

Physical Specifications:

Height: 1.75 in (4.45 cm)

Width: 19 in (48.2 cm)

Depth: 5.5 in (6.8 cm)

Detailed Description	Material ID
50-port high density voice panel	760060905

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

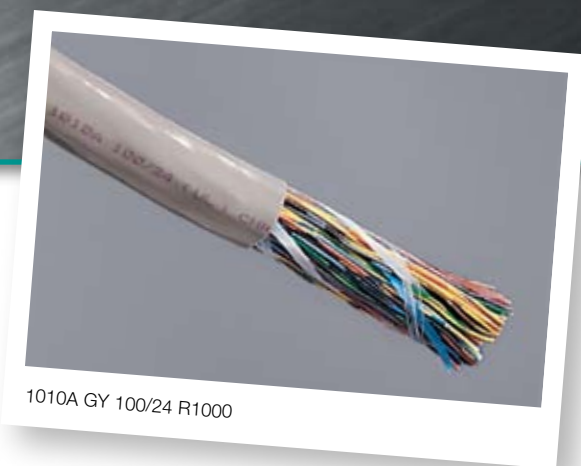
VisiPatch

Additional Copper Connectivity

Coaxial Cable

CommScope Category 3, U/UTP Cable

CommScope Category 3 Cable is used in CommScope voice and low speed data applications. Consists of 24 AWG solid copper conductors insulated with color coded PVC. ETL compliant.



Non Plenum 1010

Physical Specifications:

Weight: 4-Pair: 18.2 lbs/kf (27.2 kg/km)
 25-Pair: 95.8 lbs/kf (142.7 kg/km)
 50-Pair: 189.9 lbs/kf (283.0 kg/km)
 100-Pair: 361.8 lbs/kf (539.1 kg/km)

Outside Diameter: 4-Pair: 0.17 in (4.6 mm)
 25-Pair: 0.40 in (10.2 mm)
 50-Pair: 0.54 in (13.7 mm)
 100-Pair: 0.73 in (18.5 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
1010A WH 4/24 W1000	4	White	1,000 ft (305 m)	Box	108689134
1010A BL 4/24 W1000	4	Blue	1,000 ft (305 m)	Box	760133835
1010A GY 4/24 W1000	4	Gray	1,000 ft (305 m)	Box	106062524
1010A GY 25/24 R1000	25	Gray	1,000 ft (305 m)	Reel	106824329
1010A GY 25/24 R5000	25	Gray	5,000 ft (1,524 m)	Reel	760090779
1010A GY 50/24 R1000	50	Gray	1,000 ft (305 m)	Reel	106824378
1010A GY 50/24 R5000	50	Gray	5,000 ft (1,524 m)	Reel	760090795
1010A GY 100/24 R1000	100	Gray	1,000 ft (305 m)	Reel	106824469
1010A GY 100/24 R5000	100	Gray	5,000 ft (1,524 m)	Reel	760090787

Plenum 2010

Physical Specifications:

Weight: 4-Pair: 19.3 lbs/1,000 ft (28.8 kg/km)
 25-Pair: 95.8 lbs/1,000 ft (143 kg/km)
 50-Pair: 210 lbs/1,000 ft (313 kg/km)
 100-Pair: 399 lbs/1,000 ft (595 kg/km)

Outside Diameter: 4-Pair: 0.181 in (4.60 mm)
 25-Pair: 0.470 in (11.94 mm)
 50-Pair: 0.630 in (16.00 mm)
 100-Pair: 0.840 in (21.34 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
2010B WH 4/24 W1000	4	White	1,000 ft (305 m)	Box	107078388
2010B BL 4/24 W1000	4	Blue	1,000 ft (305 m)	Box	107078404
2010B GY 4/24 W1000	4	Gray	1,000 ft (305 m)	Box	107256737
2010B WH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	107765992
2010B WH 25/24 R5000	25	White	5,000 ft (1,524 m)	Reel	760077537
2010B WH 50/24 R1000	50	White	1,000 ft (305 m)	Reel	107766040
2010B WH 50/24 R5000	50	White	5,000 ft (1,524 m)	Reel	760077545
2010B WH 100/24 R1000	100	White	1,000 ft (305 m)	Reel	107766057
2010B WH 100/24 R5000	100	White	5,000 ft (1,524 m)	Reel	760077552



Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Product Number	Pair Count	Color	Length	Package	Material ID
2010 050BWH 50/24 R1000	50	White	1,000 ft (305 m)	Reel	107766040
2010 100BWH 100/24 R1000	100	White	1,000 ft (305 m)	Reel	107766057
2010 025BWH R5000	25	White	5,000 ft (1,525 m)	Reel	760077537
2010 050BWH R5000	50	White	5,000 ft (1,525 m)	Reel	760077545
2010 100BWH R5000	100	White	5,000 ft (1,525 m)	Reel	760077552
2010 004BWH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107078388

Low Smoke Zero Halogen 3010

Physical Specifications:

Weight: 25-Pair: 110 lbs/1,000 ft (164 kg/km)

100-Pair: 385 lbs/1,000 ft (574 kg/km)

Outside Diameter: 25-Pair: 0.469 in (11.91 mm)

100-Pair: 0.874 in (22.20 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
3010 025BSL 25/24 R1000	25	Slate	1000 ft.	Reel	760081661
3010 100BSL 100/24 R1000	100	Slate	1000 ft.	Reel	760081687
3010 100BSL 100/24 R5000	100	Slate	5000 ft.	Reel	760081695
3010 025BSL 25/24 R5000	25	Slate	5000 ft.	Reel	760081679
3010 025BSL 25/24 RVAR	25	Slate	Variable	Reel	760010900
3010 100BSL 100/24 RVAR	100	Slate	Variable	Reel	760010918

CommScope Category 3, M1 Information Outlets

The M1BH Modular Telecommunications Outlets are designed for voice, low speed networks and Integrated Services Digital Network (ISDN) applications requiring an 8-position/8-conductor outlet. The M1BH outlets are designed to snap into any CommScope modular faceplate, frame or surface-mount box. A special lubrication process provides for a minimum of 750 plug insertions.

The M1BH outlet uses the universal wiring labels which display both T568A and T568B wiring.

The M1AH modular telecommunications outlets are designed for voice and other applications requiring a 6-position/6-conductor USOC wired outlet. The M1AH outlets are designed to snap into any CommScope modular faceplate, frame or surface-mount box.



M1BH Information Outlets

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, Plating: Gold over nickel underplate. Insulation displacement connectors accept solid or stranded wire.

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

TIA/EIA Category: 3

Data Rate: Compatible with 10 Mbps Institute of Electrical and Electronics Engineers Inc. (IEEE) 802.3 10BASE-T applications. Compatible with 16 Mbps IEEE 802.5 token ring applications.

Insulation Resistance: 500 MΩ minimum

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

Current Rating: 1.5 A at 68°F (20°C)

UL and cUL Listed

Product Number	Color	Qty/Pkg	Wiring	Material ID
M1BH-H-003	Electrical Black	1	T568A/T568B	107321697
M1BH-H-112	Electrical Orange	1	T568A/T568B	107346744
M1BH-H-123	Yellow	1	T568A/T568B	107321705
M1BH-H-226	Green	1	T568A/T568B	107321713
M1BH-H-246	Electrical Ivory	1	T568A/T568B	107321721
M1BH-H-262	Electrical White	1	T568A/T568B	107321739
M1BH-H-270	Electrical Gray	1	T568A/T568B	107321747
M1BH-H-317	Red	1	T568A/T568B	107321754
M1BH-H-318	Blue	1	T568A/T568B	107321762

Copper Reference

GigASPEED X10D

GigASPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Miscellaneous Outlets*

Product Number	Color	Qty/Pkg	Wiring	Material ID
M1AH-003 Module	Black	1	6-Pin Jack	107322133
M1AH-112 Module	Orange	1	6-Pin Jack	107322141
M1AH-246 Module	Ivory	1	6-Pin Jack	107322158
M1AH-262 Module	White	1	6-Pin Jack	107322166
M1AH-270 Module	Gray	1	6-Pin Jack	107322174
M1BHU-246 Module	Ivory	1	USOC	107322224
M1BHU-262 Module	White	1	USOC	107322240
M1BHU-112 Module	Orange	1	USOC	107346801
Hand Held Terminating Device	Black	1	N/A	760034215
Single Outlet	Gray	1	8-Pos./8-Cond.	102906062
M11BHA-246 Connr Module	Ivory	25	8-Pos./8-Cond.	107391898

*The outlets listed in this product table are not covered by the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance.

110 Wiring Blocks

The 110 Wiring Block is used to terminate cable pairs and permits a neat, organized arrangement of cables behind the block.

It is a flame retardant molded plastic block with horizontal strips, each of which secures and organizes 25 cable pairs. The index strips are marked with five tip colors to help the installer locate pairs quickly.

The blocks accommodate 22 through 26 AWG conductors and can be mounted directly on wall surfaces without backboards.

There are two types of 110 Wiring Blocks: “A” wiring blocks and “D” wiring blocks. The 110A Wiring Block is equipped with legs to provide space behind the block; also, the space on the sides can be used as a vertical jumper trough. The 110D Wiring Block is built without legs and is used where depth is restrictive. These blocks are used in conjunction with the 110C Connecting Blocks, which are ordered separately.

The 110RA 12/38 Rivet Kits may be used to secure the 110 blocks without legs on to the 110 Patch Panel System backboards.

The 88A2 is a molded plastic clip-on part that attaches to the legs of the 110AW2 wiring block.



110 Wiring Blocks

Physical Specifications:

Height: 25/50-Pair: 1.75 in (4.45 cm)
100-Pair: 3.59 in (9.12 cm)
300-Pair: 10.79 in (27.41 cm)

Width: “A” block, 10.72 in (27.23 cm); “D” block, 8.5 in (21.6 cm)

Depth: “A” block, 3.25 in (8.25 cm); “D” block, 1.4 in (3.6 cm)

RoHS Compliant: Yes

Electrical Specifications:

UL and cUL Listed

110 Wiring Blocks (Without 110C Connecting Blocks)

Product Number	Pair Count	Block Type	Material ID
110AW2-100	100	A	107059891
110AW2-300	300	A	107059917
110DW1-25	25	D	107256653
110DW1-50	50	D	107256661
110DW2-100	100	D	107059909
110DW2-300	300	D	107059925

110 Field Terminated Blocks (With 110C Connecting Blocks)

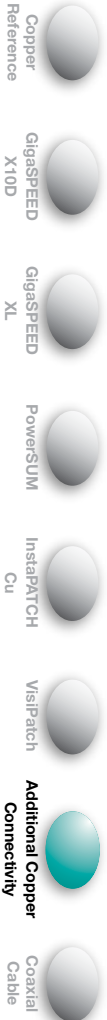
Product Number	Pair Count	Wiring Block	Connecting Block	Material ID
110AA2-100FT	100	110AW2-100	20 X 110C-5	107058901
110AB2-100FT	100	110AW2-100	4 X 110C-5, 20 X 110C-4	107058919
110AC2-100FT	100	110AW2-100	4 X 110C-4, 28 X 110C-3	107058927
110AA2-300FT	300	110AW2-300	60 X 110C-5	107058935
110AB2-300FT	300	110AW2-300	12 X 110C-5, 60 X 110C-4	107058943
110AC2-300FT	300	110AW2-300	12 X 110C-4, 84 X 110C-3	107058950
110AA2-600CBM	600	110AA2-600CBM		760014829

Rivet Kits

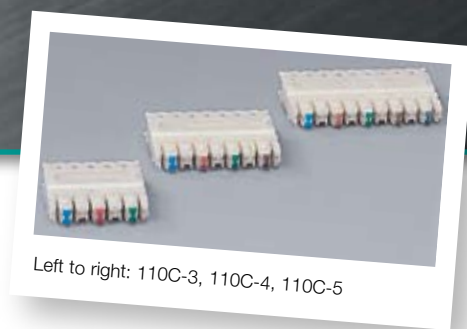
Product Number	Quantity	Block Type	Material ID
110RA-12 KIT	12	A	107611626
110RA-38 KIT	38	A	107611634

Retainer

Product Number	Detailed Description	Material ID
88A2	Retainer (Retains cross-connect wires and clips onto 110AW2 blocks)	107267452



110C and 110D Connecting Block



The 3-Pair (110C-3), 4-Pair (110C-4) and 5-Pair (110C-5) Connecting Blocks consist of a 1-piece, flame retardant, molded plastic housing containing solder-plated quick clips that cut through the insulation on 22 through 26 AWG conductors as they are seated onto the wiring block.

The front of the connecting block is color-coded, allowing rapid pair identification and termination. The connecting blocks seat on the 110 Wiring Block and provide an electrically gas tight connection between cable conductors terminated on the wiring block and Cross-connect Wire or 110 Patch Cords.

Physical Specifications:

Height: 0.25 in (0.64 cm)
Width: 3-Pair: 0.9 in (2.3 cm)
 4-Pair: 1.2 in (3.05 cm)
 5-Pair: 1.5 in (3.8 cm)
Depth: 0.93 in (2.36 cm)
RoHS Compliant: Yes

110C - Index Strip Design
 110D - Circuit Board Design
 K - 1,000 Pieces

Product Number	Detailed Description	Pair Count	Qty/Pkg	Material ID
110C-3	110C-3 CB 10/PKG	3	10	103801239
110C-4	110C-4 CB 10/PKG	4	10	103801247
110C-5	1105-5 CB 10/PKG	5	10	103801254
110C-3K	110C-3K CB 1000/PKG	3	1,000	106698319
110C-4K	110C-4K CB 1000/PKG	4	1,000	106698327
110C-5K	110C-5K CB 1000/PKG	5	1,000	106698335
110D-4	110D-4 CB 1000/PKG	4	1,000	104055850

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

110 Label and Holder

The 110 Label assembly consists of a clear label holder (188UT1-50) and colored label inserts (available in green, purple, yellow, blue, gray, brown, white and orange).

The insert labels contain vertical lines spaced on the basis of circuit size (3-, 4-, 5-pair). The transparent label holder snaps onto the wiring block to clearly identify wiring functions, provide circuit information and conceal and protect the cable conductor terminations. The labels will not interfere with placing, tracing or removing jumper wires.



188UT1-50

Product Number	Detailed Description	Pair Count	Color	Qty/Pkg	Material ID
188UT1-50	Label Holder		Transparent	6	103895504
110BC2-4500L	3-Pair 110 Label	3	Blue	90	106656192
110GC2-4500L	3-Pair 110 Label	3	Green	90	106656200
110PC2-4500L	3-Pair 110 Label	3	Purple	90	106656234
110SC2-4500L	3-Pair 110 Label	3	Slate	90	106656317
110WC2-4500L	3-Pair 110 Label	3	White	90	106656259
110YC2-4500L	3-Pair 110 Label	3	Yellow	90	106656275
110BB2-4500L	4-Pair 110 Label	4	Blue	90	106657174
110KB2-4500L	4-Pair 110 Label	4	Brown	90	107151227
110GB2-4500L	4-Pair 110 Label	4	Green	90	106657182
110PB2-4500L	4-Pair 110 Label	4	Purple	90	106657190
110SB2-4500L	4-Pair 110 Label	4	Slate	90	106657257
110WB2-4500L	4-Pair 110 Label	4	White	90	106657216
110YB2-4500L	5-Pair 110 Label Strips	5	Yellow	90	106657232
110BA2-4500L	5-Pair 110 Label Strips	5	Blue	90	106657091
110GA2-4500L	5-Pair 110 Label Strips	5	Green	90	106657109
110PA2-4500L	5-Pair 110 Label Strips	5	Purple	90	106657117
110SA2-4500L	5-Pair 110 Label Strips	5	Slate	90	106657166
10WA2-4500L	5-Pair 110 Label Strips	5	White	90	106657133
110YA2-4500L	5-Pair 110 Label Strips	5	Yellow	90	106657158
188BB1-100	Designation Strips		Blue	2	102579810
188BG1-100	Designation Strips		Green	2	103103701

110 Patch Panel System Terminal Block

The 110 Patch Panel System Terminal Blocks are used to terminate connectorized or raw-ended cable pairs.

Connecting blocks in 3-, 4-, or 5-pair sizes may be specified to match the pairs per circuit of the system in use. Transparent label holders allow you to insert circuit identification labels. Field terminated terminal blocks, which allow direct termination of building cables, are also available in 300- and 900-pair sizes.

Physical Specifications: Electrical Specifications:

Height: See Product List Table

Width: 8.5 in (21.60 cm)

Depth: 8.05 in (20.45 cm)

RoHS Compliant: Yes

UL and cUL Listed

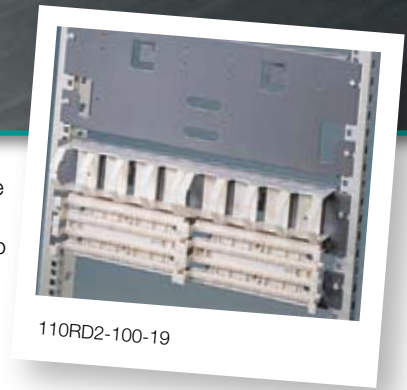


110PB2-300FT

Product Number	Height	Termination	Pair	Pair Count	Material ID
110PB2-300FT	24.68 in (62.69 cm)	Field Terminated	4	300	107058810
110PB2-900FT	61.70 in (156.72 cm)	Field Terminated	4	900	107058869
110PA2-300FT	24.68 in (62.69 cm)	Field Terminated	5	300	107058802
110PA2-900FT	61.70 in (156.72 cm)	Field Terminated	5	900	107058851
188D3				300	107151193
188C3				900	107151185



110 Connector System Mounting Bracket



The 110 Mounting Brackets are used for mounting the 110 Connector System hardware on a 19 inch wide frame rack or a data cabinet. On the rear of the brackets are cable support rings to secure cable that is routed through openings in the mounting bracket to the wiring blocks. Cross-connect wire or patch cords are routed from the wiring blocks through the troughs to the side of the frame to facilitate wire management. These mounting brackets can be mounted one on top of the other to support pair requirements.

The 110RD2-100-19 Mounting Bracket is designed to mount two 110DW1-25 or 110DW1-50 Wiring Blocks and two 100B3 Troughs on an EIA 310C 19 inch wide frame.

The 110RD2-200-19 Mounting Bracket is designed to mount two 110DW2-100 Wiring Blocks and two 110B3 Troughs on an EIA 310C 19 inch wide frame.

The 110RP2-600-19 Mounting Bracket has a set of three 1 inch bars that attach to the 19 inch frame to support two 110 pre-connectorized patch panels or patch panel and 188 Backboard and connector bracket.

Physical Specifications:

Height: 110RD2-100-19: 5.13 in (13.0 cm)
 110RD2-200-19: 7 in (17.78 cm)
 110RP2-600-19: 1 in (2.54 cm)

Width: 19 in (48.3 cm)

Product Number	Qty/Pkg	Material ID
110RD2-100-19	1	107535593
110RD2-200-19	1	107535585
110RP2-600-19	3	107098816

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

110 Patch Panel System Backboard

The 188C3 and 188D3 110 Patch Panel System Backboards are metal panels equipped with distributing rings that provide the vertical paths for running patch cords or jumpers between 110 Patch Panel System Terminal Blocks.

Physical Specifications:

Width: 8.5 in (21.60 cm)

Depth: 8 in (20 cm)

RoHS Compliant: Yes



Product Number	Detailed Description	Height	Material ID
188C3	Used with 900-Pair Terminal Blocks	61.8 in (157 cm)	107151185
188D3	Used with 300-Pair Terminal Blocks	24.0 in (61 cm)	107151193

188B Backboard

The 188B1 or 188B2 Backboard is made of metal and has two closed, formed, plastic distribution rings. It is used with 110A Wiring Blocks to arrange jumper wires running between columns of wiring blocks. The backboard is placed between fields, where it serves as a horizontal trough for the wires and provides space to change the direction of jumpers. One backboard is used for each vertical column of 110A Wiring Blocks. The 188B2 Backboard is the same as the 188B1 Backboard except it has legs to allow space for routing the cable behind the backboard.

Physical Specifications:

Height: 188B1: 6.50 in (16.50 cm)

188B2: 6.50 in (16.50 cm)

Width: 188B1: 10.72 in (27.23 cm)

188B2: 10.75 in (27.31 cm)

Depth: 188B1: 3.50 in (8.90 cm)

188B2: 4.82 in (11.45 cm)

RoHS Compliant: Yes



Top: 188B2, Bottom: 188B1

Product Number	Detailed Description	Material ID
188B1	Without Legs	102689569
188B2	With Legs	104405113

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

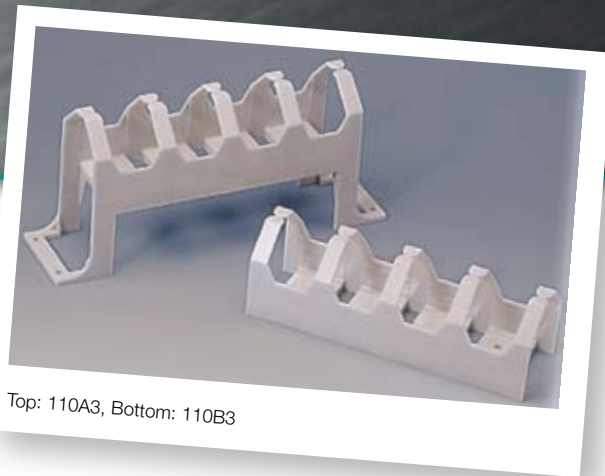
VisiPatch

Additional Copper Connectivity

Coaxial Cable

110 Jumper Trough

The 110 Jumper Trough is a white, flame retardant, molded, plastic frame that accommodates patch cords or cross-connect wire. It is placed between each 100-pair wiring block and at the top of each column, where it serves as a horizontal trough for routing patch cords and cross-connect wire. The trough is available with legs (110A3 Trough) for use with the 110A Wiring Block or without legs (110B3 Trough) for use with the 110D Wiring Block or Patch Panel Terminal Block. The 110A2 Distribution Ring is used to route cross-connect wire or patch cords alongside the wiring blocks.



Top: 110A3, Bottom: 110B3

Physical Specifications:

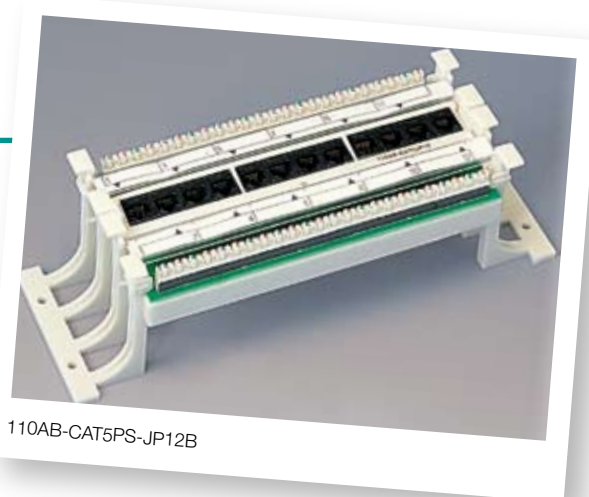
- Height:** 2.64 in (6.7 cm)
- Width:** 110A3: 10.72 in (27.30 cm)
110B3: 8.44 in (21.60 cm)
110A2: 0.58 in (1.5 cm)
- Depth:** 110A3: 5.25 in (11.91 cm)
110B3: 3.50 in (6.83 cm)
110A2: 3.25 in (8.26 cm)
- RoHS Compliant:** Yes

Product Number	Detailed Description	Material ID
110A3	With Legs	107831133
110B3	Without Legs	107831141
110A2	Distribution Ring	107214405

110 Jack Panel System

The 110 Jack Panel System consists of 8-pin modular jacks, mounted in a metallic holder and wired to a standard 110-Type Wiring Block.

The 110AB-CAT5 and 110PB-CAT5 Modular Jack Panels with T568A and T568B wiring are connecting hardware apparatus products used for the termination and inter-connection of voice and/or data circuits in premises wiring systems. These jack panels consist of a 110 insulation displacement connector (IDC) field and an 8-pin modular jack through the printed wiring board (PWB).



110AB-CAT5PS-JP12B

This product is TIA/EIA Category 5 compliant.

Product Number	Detailed Description	Wiring	Material ID
110AB-CAT5PS-JP12B	12 Modular Jacks on a 100-Pair Wiring Block (With Mounting Legs)	T568B	107920704
110AB-CAT5PS-JP12A	12 Modular Jacks on a 100-Pair Wiring Block (With Mounting Legs)	T568A	107920753
110BB-CAT5PS-JP12FTB	12 Modular Jacks on a 110DW2 100-Pair Wiring Block (Without Mounting Legs)	T568B	107920738
110AB-CAT5PS-JP36B	36 Modular Jacks on a 300-Pair Wiring Block (With Mounting Legs)	T568B	107920712
110AB-CAT5PS-JP36A	36 Modular Jacks on a 300-Pair Wiring Block (With Mounting Legs)	T568A	107920761
110PB-CAT5PS-JP108B	108 Modular Jacks on a 900-Pair Patch Panel Terminal Block (Without Mounting Legs)	T568B	107920746

- Copper Reference
- GigaSPEED X10D
- GigaSPEED XL
- PowerSUM
- InstaPATCH Cu
- VisiPatch
- Additional Copper Connectivity
- Coaxial Cable

110 Patch Cord and Adapter Cord

The 110 Cord family provides for the administration and interconnection of data and voice circuits. All cords are manufactured with 1074 cordage. The round cordage consists of 24 AWG tinned copper, stranded conductors insulated with high density polyethylene. The insulated conductors are tightly twisted into individual pairs and jacketed with flame retardant PVC.

Physical Specifications:

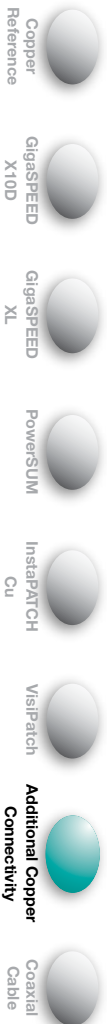
- Plastic Material:** Polycarbonate Blend
- Flammability Rating:** UL-rated 94 V-O
- Contact Material:** Phosphor Bronze
- Contact Plating:** Gold 2 to 5 micro-inch (0.051 to 0.128 microns)
Nickel 75 micro-inch (1.91 microns)
- Plug Insertion Life:** 200 minimum
- Operating Temperature:** 14°F to 140°F (-10°C to 60°C)
- RoHS Compliant:** Yes

Safety Certifications:

ETL/cETL Listed



110P8GS Patch Cord



110 Patch Cord and Adapter Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cordage Length Options
CPC8812	110P8GS	GigaSPEED® XL110GS to 110GS 4-pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8312	119P8GS	GigaSPEED® XL110GS to GS8E 4-pair Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8412	117P8GS	GigaSPEED® XL 110GS Single-ended 4-pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8882	110P8GS-S	GigaSPEED® XL110GS to 110GS 4-pair Solid Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPC8641	119P8PS-A	PowerSUM 110 to D8PS 4-pair Hybrid Patch Cord A-wired	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8852	110P4PS	110 to 110 2-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC8658	120P4PS	110 to D8PS 2-pair Hybrid Patch Cord (120 version)	0	3	F,M	1-100 ft / 1-30 m
CPC8862	110P2PS	110 to 110 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC8662	119P2PS	110 to D8PS 1-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC8392	119P8GS-L	GigaSPEED® XL 110GS to GS8E 4-pair LSZH Hybrid Patch Cord	0	8,B,Z	F,M	1-100 ft / 1-30 m



- ### Jack Color Options
- 0 Not Applicable
 - 1 Black (BK)
 - 2 Blue (BL)
 - 3 Gray (GY)
 - 4 Green (GR)
 - 5 Ivory (IV)
 - 6 Orange (OR)
 - 7 Red (RD)
 - 8 White (WH)
 - 9 Yellow (YL)

- ### Cord Color Options
- 1 Black (BK)
 - 2 Light Blue (LB)
 - 3 Dark Gray (DG)
 - 4 Spring Green (GN)
 - 6 Orange (OR)
 - 7 Red (RD)
 - 8 White (WH)
 - 9 Yellow (YL)
 - B Lilac (LL)
 - C Slate (SL)
 - Z Blue (BL)

- ### Unit of Measure (UOM)
- F Feet
 - M Meters

110 Tools

Copper Reference

The 788H1 Impact Tool is used for insertion only, or to insert and trim up to five wires at a time on the wiring block and to seat the 110C Connecting Block. The handle is fitted with a rubber grip for better gripping and comfort. The 788M2 aluminum frame replacement head for the tool can be ordered separately.

GigaSPEED X10D

The 788P Pressing Head Assembly is a plastic stuffer used with the 788H1 Tool Kit.

The 788 Kit and 788P Pressing Head Assembly provide a direct replacement for the 788M1 Tool.

GigaSPEED XL

The 788 Kit is a kit of 2 blades and is a direct replacement for the 788 Tool Kit (106 981 848).

PowerSUM

The 788K1 Wire Retention Tool is used as an aid in holding down cable conductors when removing 110-Type Connecting Blocks.

The Spudger is a small pencil-shaped plastic tool with a sharp, pointed L-shaped metal pick that is used to lift and remove small pieces of conductor insulation caught in the 110-Type Wiring Block or between the plastic teeth of the 110-Type Connecting Block.

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable



Left to right 788H1 Impact Tool, 788M2 Replacement Head Assembly



KS-22035-L2

Product Number	Detailed Description	Material ID
788H1	788H1 Impact Tool (Handle + Blade), 10 Conductor	108062043
788M2	788M2 Replacement Head for 788H1 Tool	107975864
788 Kit	788 Kit Replacement Blades	407732585
KS-22035-L2	Spudger	405423260
D-914 Kit	Impact Tool (Handle + Blade)	406477794
D-914	D-914 Impact Tool Handle	407484971
M110	M110 Blade, Replacement Blade for D-914	407728427

384A Video Adapter

The 384A Video Adapter is a broadband Community Access Television (CATV) video device that performs common mode filtering, balancing and impedance matching to provide connectivity to SYSTIMAX. It permits connectivity between broadband CATV video distribution equipment.

The 384A is equipped with an F-type male connector plug on one end, and a 12 ft (3.7 m) section of 2-pair cordage with an RJ-45 on the other. The RJ-45 should be connected to the work area information outlet, or the modular RJ-45 jack panel in the telecommunications closet or equipment room. The F-type plug is used to connect to the broadband video distribution equipment.

Physical Specifications:

Length: Housing: 2.3 in (5.8 cm)
Cable: 12 ft (3.7 m)



384A

Electrical Specifications:

Bandwidth: 55 MHz - 550 MHz
Input Impedance (Source): 75 Ohms Unbalanced
Output Impedance (Twisted Pair): 100 Ohms Balanced
Common Mode Rejection: >40 dB
Signal To Noise Ratio: >60 dB

Product Number	Detailed Description	Material ID
384A	Broadband Video Adapter	107213605

385DP CATV Distribution Panel

The 385DP Broadband CATV Distribution Panel allows analog broadband video distribution over enhanced PowerSUM and GigaSPEED Solutions.

The 19 inch wide rack mountable 385DP Broadband CATV Distribution Panel is a passive self-terminating 1 by 16 coax-to-U/UTP CATV distribution solution that provides connectivity over LAN cables.

The 385DP is equipped with an F-type coaxial input connector (female) and 16 8-pin output modular jacks (female). A single 385DP distributes CATV signals for up to 16 locations.

The 385DP is typically installed in a telecommunications closet or equipment room and transmits CATV signals in the horizontal subsystem to 384A adapters located in the work location.

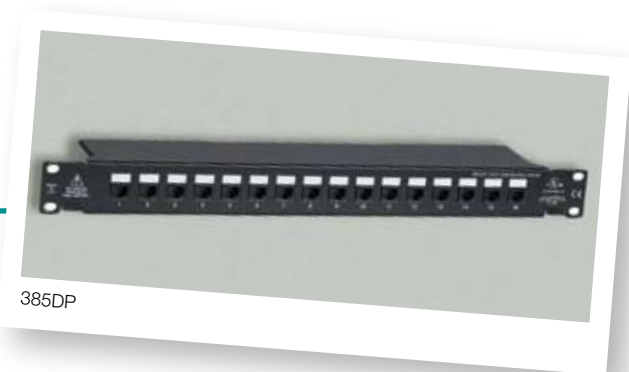
Electrical Specifications:

Operation Distances: 60 meters - 77 channels for a minimum received signal level of 0 dBmV
100 meters - 28 channels for a minimum received signal level of 0 dBmV
100 meters - 50 channels for a minimum received signal level of -10 dBmV

Bandwidth: 5 MHz - 550 MHz

Emission: Tested to FCC Part 76 and CISPR PUB 22 Class B

Safety: UL, CSA and IEC 950



385DP

Product Number	Detailed Description	Material ID
385DP	Broadband CATV Distribution Panel	108120460

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Category 6 OSP Protector Units



Cat 6 16V w/POE

SYSTIMAX Category 6 Protector is designed to give protection for data circuits entering a building. This solid state device protects sensitive network equipment from damage caused by transient voltage surges by diverting them to the ground in 2-5 nanoseconds.

Protection is provided for 4-pair LAN applications with 16V clamping voltage or 4-pair analog voice applications with a 235V clamping voltage. Grounding requires a field installed solid copper wire, 10 AWG for Primary and 14 AWG for Isolated Loop. Used with high performance 4-pair Category 6 Outside Plant Cables as well as Category 6 U/UTP cables to create a 100% solid-state protection for fast and reliable response to surge events. It meets the electrical specifications of ANSI/TIA-568-C.2 for Category 6 channel performance.

Physical Specifications:

Height: 4.25 in (10.8 cm)

Width: 4.25 in (10.8 cm)

Depth: 1.42 in (3.61 cm)

Electrical Specifications:

Protector Type: 100% Solid State

Clamping Voltage: 16 and 235 VDC

Maximum Response Time: 2-5 nanoseconds

Grounding Requirements: 10 AWG for primary or 14 AWG for isolated Loop Applications

Grounding Connection: Integral shield grounding clip attaches to cable

Product Number	Clamping Voltage	Applications	Material ID
Cat 6 235V	235 Volt	Analog Voice	760031708
Cat 6 16V	16 Volt	Data	760028373
Cat 6 16V w/POE	16 Volt	POE	760033951

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Multipair Protector Panel (190 Type)

The 190 Type Multipair Protector Panel provides indoor station protection for exposed lines where the cross-connect field is separated from the protector panels at building entrance terminals. The protector panel consists of a metal housing containing mountings for 3B-, 3C-, 4B-, or 4C-Series Protector Units (sold separately). It also includes a 25 ft (7.62 m), 26 AWG stub cable that serves as a fusible link, a 24 AWG terminating cable and two connectors for external ground connections.

The internal wiring design prevents protector bypass. A cable pass-through feature allows for side-by-side and top-to-bottom installation.

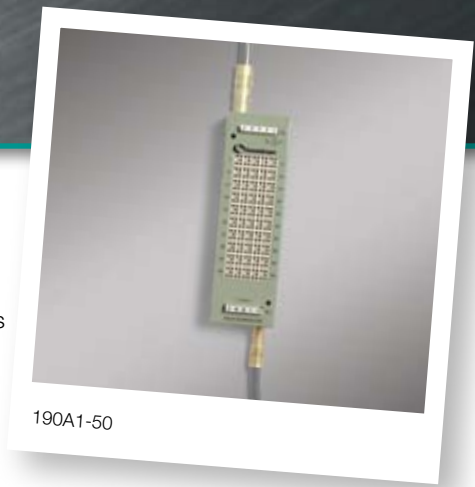
Physical Specifications:

Height: 50-pair: 13 in (33.0 cm)
100-pair: 24 in (61.0 cm)

Width: 4 in (10.2 cm)

Depth: 2.75 in (6.99 cm)

Product Number	Pair Count	Material ID
190A1-50	50	102995073
190A1-100	100	102995099



190A1-50

Copper Reference

GigASPEED X10D

GigASPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

Station Protector (110ANA Type) with 110 IDC for Both Input and Output



The 110ANA1 Multipair Protector Panel provides indoor station protection for small pair count applications using the 3B-, 3C-, 4B-, or 4C-Series Protector Units. The unique internal wiring design prevents protector bypass. Designed with 110-Type connecting blocks for input and output terminations, the 110ANA1 Multipair Protector Panel provides a modular, space efficient package with quiet front and simplified installation directly on the wall.

The individual protector modules should be ordered separately. The 110ANA1 multipair protector panel is UL listed.

Product Number	Detailed Description	Pair Count	Dimensions	Material ID
110ANA1-06	Station Protector, with 110 terminations, 5-pin protectors not included	6	4.1 in (10.4 cm) W x 3.5 in (8.9 cm) H x 2.6 in (6.6 cm) D	105736482
110ANA1-25	Station Protector, with 110 terminations, 5-pin protectors not included	25	3.9 in (9.9 cm) W x 10 in (25.4 cm) H x 2.6 in (6.6 cm) D	105736490
110-ANA1-050	110 Input/Output Building Entrance Protector	50	13.25 in (33.7 cm) W x 9.25 in (23.5 cm) H x 2.75 in (7.0 cm)	760096476
110-ANA1-100	110 Input/Output Building Entrance Protector	100	21.25 in (54.0 cm) W x 9.25 in (23.5 cm) H x 2.75 in (7.0 cm)	760096487

Copper Reference

GigaSPEED X10D

GigaSPEED XL

PowerSUM

InstaPATCH Cu

VisiPatch

Additional Copper Connectivity

Coaxial Cable

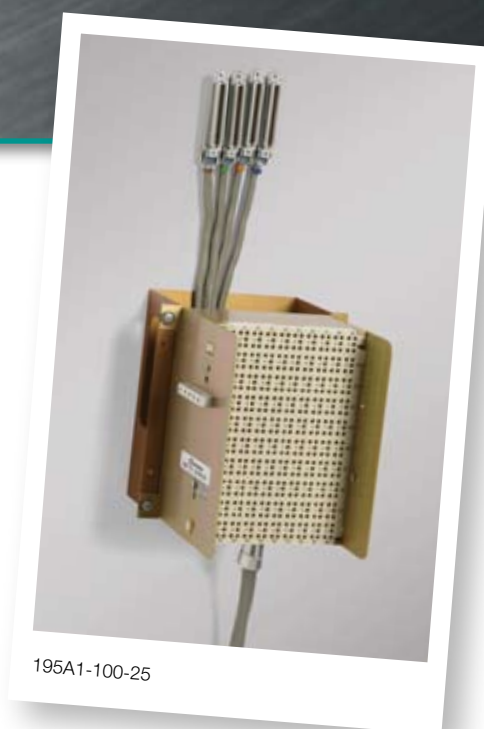
Building Entrance Terminal (195 Type)

The unit is equipped with a metal housing containing a 100-pair protector panel that accepts a wide range of interchangeable plug-in protector units. The input is either a 100 ft (30.48 m), a 50 ft (15.24 m) or 25 ft (7.62 m) long 26-gauge stub cable that serves as a fusible link. The output is a 1 ft (0.30 m) 24-gauge cable with either male or female RJ21 type connectors. The internal wiring design separates the input wires from the output wires, so in the event of a power cross and the input wire fuses open, they will not be connected to the output wires causing a bypass.

The 195A type has a wall mount bracket that acts as both a mounting bracket and a cable guide. The 195B type is a frame mounting version.

Features and Benefits:

- Very high density design saves space
- The protector panel terminals are gold plated for superior electrical connections
- Accepts a wide range of interchangeable plug-in protector units
- Two built-in 3-wire ground connectors facilitate termination of a No. 6 ground wire and strapping adjacent units together provides common positive grounding
- The units are available with both male and female output RJ21 connectors
- The input stub cables are 25 ft (7.62 m), 50 ft (15.24 m) or 100 ft (30.48 m) long



195A1-100-25

Product Number	Pair Count	Input	Output	Material ID
195A1-100-25	100	25 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105404776
195A1-100-050	100	50 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564033
195A1-100-050M	100	50 ft Stub Cable	1 ft Cable with Male RJ21 Connector	105564041
195A1-100-25	100	25 ft Stub Cable	4 Soft Stub Cables	760012344
195A1-100-50	100	50 ft Stub Cable	2 Soft Stub Cables	108386382
195B1-100-25	100	25 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105501050
195B1-100-050	100	50 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564066
195B1-100-100	100	100 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564082
195A1-100-100/050R	100	100 ft Stub Cable	50 ft Stub Cable (unshielded)	760069955

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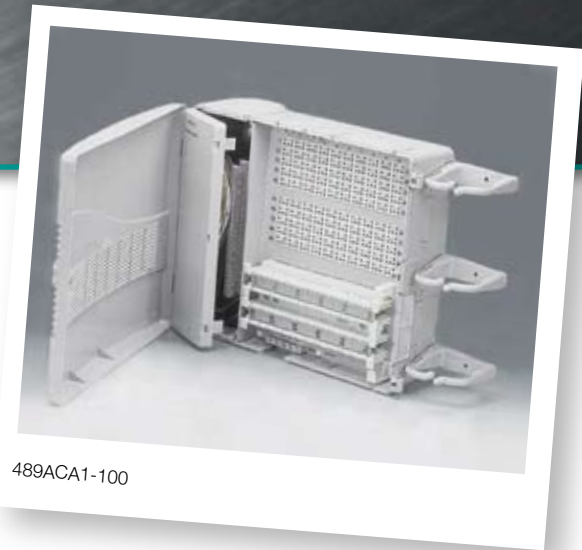
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Building Entrance Terminal (489A Type)

Reliable electrical protection is essential for securing sensitive equipment at the building entrance terminal. The lightweight and high density 489A protector provides this protection. Designed for use wherever exposed outside plant (OSP) cables enter the building, the unit provides electrical protection between the cable and sensitive devices.

Features and Benefits:

- The 489 units are lightweight (30 percent lighter than comparable models) with an attractive appearance
- High density design saves wall space (all units, even 200-pair, are only 12 in high by 14 in wide)
- Reliable 110-type IDC output connector for fast, easy connections
- The protector panel terminals are gold plated for superior electrical connections
- Accepts a wide range of interchangeable plug-in protector units
- Hinged, lockable covers provide additional mechanical protection and security
- An optional security kit (108314360) allows a padlock to be mounted on the cover
- A generous splice chamber with removable grommets allows easy OSP cable entry and splicing
- The splice chamber walls are insulated for better fuse coordination
- A velcro strap is used for wire management
- The 489 units are stacked to minimize wall space and simplify installation
- Two built-in 3-wire ground connectors facilitate termination of a number 6 ground wire, and strapping adjacent units together provides common positive grounding
- Additional side exits and common wire guides facilitate dressing and tracing of customer wire
- The units are available in 25, 50 and 100 pair count
- Dimensions are 12 in (30.5 cm) high by 14 in (35.5 cm) wide by 5.5 in (14 cm) thick



489ACA1-100

Product Number	Pair Count	Input	Material ID
489ACA1-025	25	110 IDC	107894909
489ACA1-050	50	110 IDC	107894917
489ACA1-100	100	110 IDC	107894925
489ACC1-025	25	25 ft Stub Cable	107894941
489ACC1-050	50	25 ft Stub Cable	107894958
489ACC1-100	100	25 ft Stub Cable	107894966
489ACC1-100	100	50 ft Stub Cable	760008557
489ACM1-050	50	3M ms2 connector	107891982
489ACM1-100	100	3M ms2 connector	107894990
489ACMI-200	200	3M ms2 connector	107895005
489ACSI-025	25	710 connector	107895039
489ACSI-050	50	710 connector	107895047
489ACSI-100	100	710 connector	107895070
489ACSI-200	200	710 connector	107895088

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Building Entrance Protectors

Building Entrance Protectors protect sensitive equipment and personnel from power surges, AC coupling, AC power cross and lightning strikes. Power surge can travel through buried or exposed OSP cable back to equipment within the premises. Plug in protectors (PIPs) in building entrance protectors (BEPs) act like a circuit breaker.

The 5-pin plug in protection units provide over voltage protection with either a gas discharge tube or a solid state module.



Gas Discharge Tube

- Handles larger surges
- Possesses a higher holding current
- Used when high surge currents are common
- Used in extreme environments
- DSL friendly
- Used in low pair count applications

Solid State Module

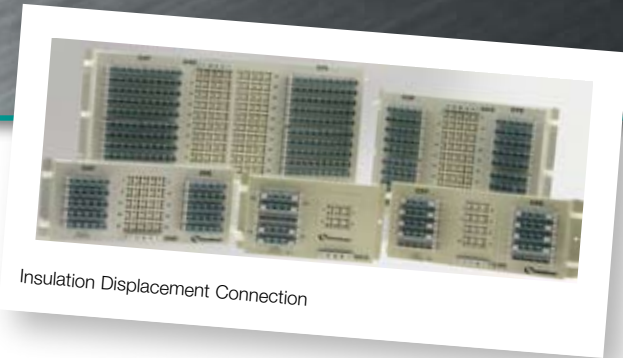
- Tight breakdown voltage which provides a higher level of protection
- Longer life threshold (if surges are lower than rating)
- Fast response

Product Number	PIP Type	Breakdown	Over Current @ 25c	Circuit Application	Color	Material ID
3B1EW	GDT	265 – 465 V	N/A	Standard	Black	104410147
4B1EW	GDT w/ HC	265 – 465 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Standard	Black	104401856
3C1S	BSS	220 – 300 V	N/A	Standard	Black	105514756
4C1S	BSS w/ HC	220 – 300 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Standard	Black	104386545
4C3S-75	BSS w/ HC	60 – 90 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Data Circuits	Red	105581086
3B2EW		265-465 V		Service Denied	Green	104410154
3B3EW		265-465 V		Special	Red	104410162
3C1FS		215-265 V		Standard	Black	107213399
3C3S		220-300 V		Special	Red	105695969
3C3EW		265-465 V		Special	Red	104410196
4C1FS		215-265 V		Standard	Black	105605620
4C1FS-20		215-265 V		Standard	Black	107224347
4C3S		220-300 V		Special	Red	105605596
4C3FS		215-265 V		Special	Red	105605646
4C3FS-20		215-265 V		Special	Red	107224362

Note: GDT – gas discharge tube
 HC – heat coils
 BSS – balanced solid state

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Building Entrance Protectors Tool-less Insulation Displacement Connection (TIDC-LNL1)



The CommScope Tool-less Insulation Displacement Connection (TIDC-LNL1) Building Entrance Protectors (BEP). The TIDC-LNL1 BEP provides indoor protection using UL® listed gas tube, hybrid, or solid state 5-pin series protector units. CommScope offers five BEP models for 6, 12, 25, 50, and 100 pair protection. The TIDC block provides a low profile, robust, termination field. Simply lift the toggle open, insert the wire and press closed to make the connection on the top side (no tools required). The high density connector has color marked holes (tip/ring) for easy installation of wires.

An internal fuse link is provided to prevent protector bypass. Input and Output terminations using recommended 22 or 24 gauge conductors are easily accomplished utilizing the CommScope Tool-less Insulation Displacement Connection block.

Features and Benefits

- UL® listed gas tube, hybrid, solid state 5-pin series protector units
- No tools are required for Input/Output terminations
- Lightweight, space efficient design, allows for quick and simple mounting directly on the wall
- Three-position external ground terminal accepts 6 to 14 AWG ground wire
- Strain relief rings are provided on both sides of the BEP to manage Input and Output cables
- Wire retainers are located on both sides of the TIDC blocks with clearly numbered circuit identification

Product Number	Detailed Description	Dimensions	Material ID
TIDC-LNL1-06	TIDC Input/Output Building Entrance Protector, 6 pair	10.00 x 5.25 x 2.75	760093294
TIDC-LNL1-012	TIDC Input/Output Building Entrance Protector, 12 pair	13.25 x 5.25 x 2.75	760093302
TIDC-LNL1-025	TIDC Input/Output Building Entrance Protector, 25 pair	13.25 x 5.25 x 2.75	760091124
TIDC-LNL1-050	TIDC Input/Output Building Entrance Protector, 50 pair	13.25 x 9.25 x 2.75	760093310
TIDC-LNL1-100	TIDC Input/Output Building Entrance Protector, 100 pair	21.25 x 9.25 x 2.75	760093328

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