

# GP6™ PLUS Category 6 Punchdown System

## specifications

The Category 6 punchdown system components shall include bases, connecting blocks and patch cords for standard and high-density applications. This end-to-end system shall terminate to most 22 – 26 AWG solid or stranded UTP cable and exceed all ANSI/TIA Category 6 standard requirements for voice and data applications. Connecting blocks shall include access to allow testing of individual circuits without removing wires and include rounded edges and wire retention slots to eliminate finger fatigue and provide wire retention.



## technical information

<b>Electrical performance:</b>	Exceeds all channel and component requirements of ANSI/TIA-568-C.2 Category 6 standard
<b>Mechanical performance:</b>	Meets IEC 60352-4 requirements; can withstand repeated terminations up to 200 cycles

## key features and benefits

<b>Optimum positioning of contacts</b>	Maximum performance by reducing wire pair untwist
<b>Wire strip on base</b>	Delivers Category 6 performance without sacrificing wiring capacity; improves wire retention and wire cut-off
<b>High density version</b>	Increases wiring capacity by 44% compared to 110 systems
<b>Rounded edges on wire strip and connecting block</b>	Eliminates finger fatigue
<b>Single punchdown tool terminates a pair at a time</b>	Reduces installation time
<b>Highly visible, color-coded wiring strip</b>	Improves ease of termination and trouble shooting
<b>Delivers Category 6 performance using discrete wire or patch cords</b>	Flexibility to satisfy customer preference
<b>Uses existing 100 and 300 pair 110 style base footprint and mounting dimensions</b>	Capitalizes on familiarity to existing installations Can be easily substituted for existing 110 installations

## applications

The GP6™ PLUS Category 6 Punchdown System is used as a Category 6 interconnect or cross-connect of workstation cabling to equipment cabling, or as a consolidation point in zone cabling applications.

The GP6™ PLUS Punchdown System is designed for voice and data applications. GP6™ PLUS High Density Bases can substitute for existing 110 installations, yielding a 44% increase. GP6™ PLUS Standard Density Bases are specifically designed to accommodate crescent cable.

### GP6™ PLUS Category 6 Punchdown System

#### High Density Bases

144 pair base with legs:	GPBW144-X
432 pair base with legs:	GPBW432-X
144 pair base without legs:	GPB144-X
432 pair base without legs:	GPB432-X

#### Standard Bases

96 pair (24-port) base with legs:	GPBW24-X
288 pair (72-port) base with legs:	GPBW72-X
96 pair (24-port) base without legs:	GPB24-X
288 pair (72-port) base without legs:	GPB72-X

#### Connecting Blocks

4 pair:	GPCB4-XY
5 pair:	GPCB5-XY

#### Jumper Troughs

With legs:	P110JTW-X
Without legs:	P110JT-X

#### High Density Terminations Kits

144 pair kit:	GPKBW144Y
432 pair kit:	GPKBW432Y

#### Standard Terminations Kits

24-port:	GPKBW24Y
72-port:	GPKBW72Y

#### 19" Rack Mount Panel Kits

High density 288 pair without jumper troughs, 2 RU:	GPB2884R2Y
High density 288 pair with jumper troughs, 4 RU:	GPB2884R4WJY
Standard density 48-port without jumper troughs, 2 RU:	GPB484R2Y
Standard density 48-port with jumper troughs, 4 RU:	GPB484R4WJY

#### Patch Cord Connectors

1 pair:	GPC5E1-XY
2 pair:	GPC5E2-XY

#### Patch Cord Assemblies

1 pair connector on each end:	GPPC1IG*Y
2 pair connector on each end:	GPPC2IG*Y
4 pair connector on each end:	GPPC4IG*Y
4 pair connector to RJ45 568A Pan-Plug™:	GPPC4IG*AY
4 pair connector to RJ45 568B Pan-Plug™:	GPPC4IG*BY

#### Termination Tools

Single punchdown tool:	GPST
4 pair punchdown tool:	GPDTM
Wire stripping tool:	CJAST

\*Substitute 3, 5, 7, 9, 14 or 20 for length of patch cord (in feet). Visit [www.panduit.com](http://www.panduit.com) for metric lengths of patch cord assemblies.

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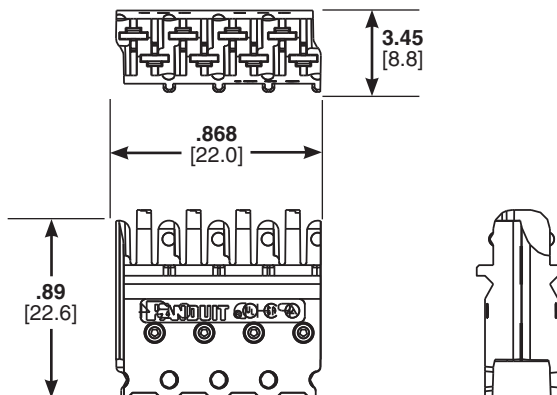
## Connector Block Test Results

Performance Test	Test Method	100 MHz		250 MHz	
		Required Performance	Typical Test Results (db)	Required Performance	Typical Test Results (db)
NEXT	Category 6 Standard	> 54	60	> 46	52
PS NEXT		> 50	57	> 42	49
FEXT		> 43	56	> 35	47
PS FEXT		> 40	53	> 32	44
Attenuation		< 0.20	0.02	< 0.32	0.03
Return Loss		> 23	28	> 15	24

Mechanical Test	Test Method	Measurement	Typical Test Results
Vibration	IEC 512-6d	Circuit Resistance Change (mOhms)	< 1
Shock	IEC 512-6c	Contact Disturbance (microsecond)	< 1
Durability	IEC 512-9a	Circuit Resistance Change (mOhms)	< 5

Electrical Test	Test Method	Measurement	Typical Test Results
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	< 5
Dielectric Withstand Voltage	IEC 512-4a	1000 VAC, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (mOhms)	> 10,000

Environmental	Test Method	Measurement	Typical Test Results
Temperature Life	IEC 512-9b	Circuit Resistance Change (mOhms)	< 1
Humidity	IEC 512-11c	Circuit Resistance Change (mOhms)	< 2
Thermal Shock	IEC 512-11d	Circuit Resistance Change (mOhms)	< 5
Climatic Sequence	IEC 512-11a	Circuit Resistance Change (mOhms)	< 5
Flowing Mixed Gas Corrosion	IEC 512-11g	Circuit Resistance Change (mOhms)	< 5



Dimensions are in inches [Dimensions in brackets are metric]

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