

# 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 26 and 22 AWG solid or stranded UTP cable and exceed all TIA/EIA 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

**Performance:** Exceeds TIA/EIA-568-B.2-1 Category 6 standard

## 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 cutoff
<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 be substituted 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

#### Standard Bases

24-port base with legs: GPW24-X  
72-port base with legs: GPW72-X

#### Connecting Blocks

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

#### Jumper Troughs

With legs: P110JTW-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

48-port without jumper trough: GPB484R2Y  
48-port with jumper trough: GPB484R4WJY

#### Patch Cord Connectors

1 pair: GPC5E11-XY  
2 pair: GPC5E12-XY

#### Patch Cord Assemblies

1 pair: GPPC1IG\*Y  
2 pair: 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: GPDT  
4 pair punchdown tool: GPDTM

\*Substitute:  
3 = 3 feet  
5 = 5 feet  
7 = 7 feet  
9 = 9 feet  
14 = 14 feet  
20 = 20 feet

# GP6™ PLUS Category 6 Punchdown System

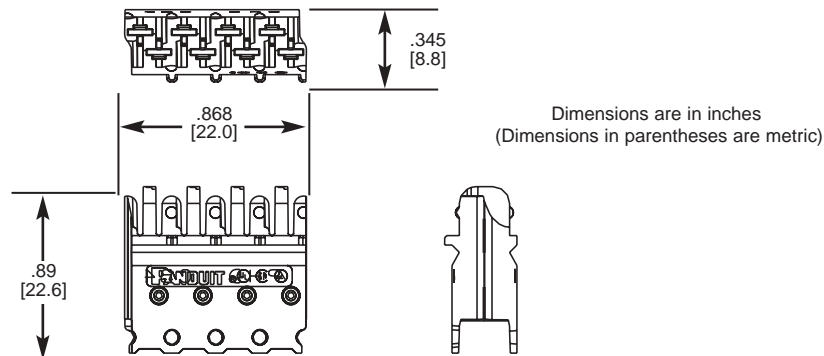
## GP6™ PLUS Connector Block Test Results

Performance Test	Test Method	100 MHz		250 MHz	
		Required Performance	Typical Test Results (db)	Required Performance	Typical Test Results (db)
<i>NEXT</i>	Category 6 Standard	> 54	60	> 46	52
<i>PS NEXT</i>		> 50	57	> 42	49
<i>FEXT</i>		> 43	56	> 35	47
<i>PS FEXT</i>		> 40	53	> 32	44
<i>Attenuation</i>		< .20	.02	< .32	.03
<i>Return Loss</i>		> 23	28	> 15	24

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

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

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



Dimensions are in inches [Dimensions in brackets are metric]

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