

GP6™ PLUS Punchdown System

specifications

The Category 6 punchdown system components shall include bases, connecting blocks and patch cords for standard and high-density applications. Standard density applications also support Category 6A performance. This end-to-end system shall terminate to most 22 – 26 AWG solid or stranded UTP cable and exceed all ANSI/TIA 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

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

key features and benefits

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|--|--|
| Optimum positioning of contacts | Maximum performance by reducing wire pair untwist |
| Wire strip on base | Delivers Category 6/6A performance without sacrificing wiring capacity; improves wire retention and wire cut-off |
| High density version | Increases wiring capacity by 44% compared to 110 systems |
| Rounded edges on wire strip and connecting block | Eliminates finger fatigue |
| Single punchdown tool terminates a pair at a time | Reduces installation time |
| Highly visible, color-coded wiring strip | Improves ease of termination and trouble shooting |
| Delivers Category 6 performance using discrete wire or patch cords | Flexibility to satisfy customer preference |
| Delivers Category 6A performance | Standard density system supports 10Gig data rates |
| Uses existing 100 and 300 pair 110 style base footprint and mounting dimensions | Capitalizes on familiarity to existing installations Can be easily substituted for existing 110 installations |

applications

The GP6™ PLUS 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 standard density system can also be used for Category 6A performance.

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 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 for metric lengths of patch cord assemblies.

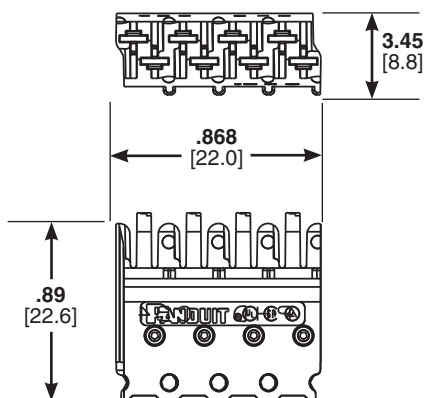
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Connector Block Test Results

| 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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