Pan-Punch® 110 Punchdown System

PANDUIT®

SPECIFICATION SHEET

specifications

The 110 Punchdown System shall provide deep channels in each base that allow jacketed cable to be routed within 0.50 inch of the point of wire termination. Each base shall have color-coded wire strips that assist in wire sorting and troubleshooting. Connecting blocks shall have test access through the housing, allowing testing of individual contacts without removing the wire. The jumper troughs shall have rounded edges that eliminate sharp bends in cable and help maintain Category 5e minimum bend radius.



technical information

Electrical performance:	Exceeds all channel and component requirements of ANSI/TIA-568-C.2 Category 5e standard
Mechanical performance:	Meets IEC 60352-4 requirements; can withstand repeated terminations up to 200 cycles

key features and benefits

Compatibility	Compatible with existing 110 installations
Deeper cable channel in the base	Allows cable jacket end to be within 1/2" from IDC connection per TIA-568 requirements
Rounded edges on jumper trough	Helps keep gradual bends in cable which assures superior performance
Field terminable patch cord connector	Assemble patch cords in the field to improve cable management, no tools required
Metal contact retention in connecting block	Contact is positively retained in the one piece connector housing
Legs are molded as part of the base	Provides a sturdy base that cannot be accidentally removed from its mounting
Base has TIP colors on wire strip	Easy 25-pair installation; assists in long term maintenance
Connecting Block has RING colors for wiring identification	Easy installation of 4-pair cabling

applications

The Pan-Punch®110 Punchdown System is a versatile punchdown system used to connect, manage, identify and cross-connect communications equipment wiring in telecommunications closets and main distribution frames. The Pan-Punch® 110 System is commonly used in both voice networks and data local area networks designed for use with unshielded twisted pair copper wire and cable. The Pan-Punch® 110 System can be used on jobs as small as 100-pair.

Large projects can use tower systems or 19" rack mount panels. Tower systems can be wall mount or free standing; 300 or 900-pair configurations. Rack mount panels are available in 200-pair increments. A typical Pan-Punch® System installation will use one base to connect the communication equipment cabling and a different base to connect workstation cabling. Equipment and workstation bases are inter-connected/cross-connected with jumpers and/or patch cords.

Pan-Punch® 110 Bases

100 pair with legs:	P110BW100-X
300 pair: with legs:	P110BW300-X
100 pair without legs:	P110B100-X
300 pair without legs:	P110B300-X

Pan-Punch® Jumper Troughs

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

Pan-Punch® Connecting Blocks

3 pair:	P110CB3-XY
4 pair:	P110CB4-XY
5 pair:	P110CB5-XY

Pan-Punch® Field Terminable 110 Patch Cord Connector

1 pair:	P110PC1-XY
2 pair:	P110PC2-XY
3 pair:	P110PC3-XY
4 pair:	P110PC4-XY

Pan-Punch® Patch Cords

1 pair:	P110PC1IG*Y
2 pair:	P110PC2IG*Y
4 pair:	P110PC4IG*Y
4 pair to RJ45-T568A:	P110PC4IG*AY
4 pair to RJ45-T568B:	P110PC4IG**BY

Pan-Punch® Tower System

300 pair:	P110KT300+ (4,5)Y
900 pair:	P110KT900+ (4,5)Y

Pan-Punch® Vertical Cable Managers

300 pair:	P110VCM300
900 pair:	P110VCM900 (P110VCM - Backboard Mounting)

Pan-Punch® Rack Mount Panels

2–100 pair bases without troughs (2 RU):	P110B100R2Y
2–100 pair bases with troughs (4 RU):	P110B100R4WJY

Punchdown Tools

5 pair:	PDT110M
Single:	PDT110
Wire stripping tool:	CJAST

*Substitute 2, 3, 4, 5, 6, 7, 8, 9, 12, 15 or 18 for length of patch cord (in feet). **Substitute 2, 4, 5, 6, 7, 8, 9, 12, 15 or 18 for length of patch cord (in feet). Visit www.panduit.com for metric lengths of patch cord assemblies.

Connector Block Test Results

		16 MHz		100 MHz	
Performance Test	Test Method	Required Performance	Typical Test Results (dB)	Required Performance	Typical Test Results (dB)
NEXT	TIA/EIA-568-A-5	> 58.9	62.8	> 43.0	46.9
FEXT		> 51.0	67.2	> 35.1	51.1
Attenuation		< 0.20	0.004	< 0.40	0.02
Return Loss		< 35.0	42.5	< 20.0	27.1

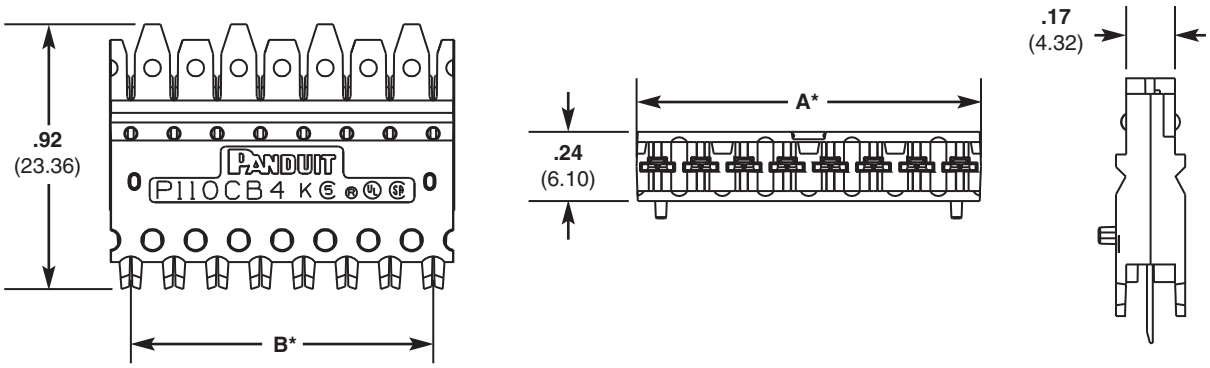
Contact customer service for cable brand specific channel test results.

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)	> 10000

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

Part Number	Pairs	Dimension for "A"	Dimension for "B"
P110CB3	IEC 512-9b	0.896 (22.76)	0.750 (19.05)
P110CB4	IEC 512-11c	1.196 (30.38)	1.050 (26.67)
P110CB5	IEC 512-11d	1.496 (38.00)	1.350 (34.29)



Dimensions are in inches (Dimensions in parentheses are metric).

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For more information

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