DP6A™ 10Gig™ Punchdown Patch Panels

specifications

Category 6A/Class E$_A$, punchdown patch panels shall terminate 4-pair, 22 – 26 AWG, 100 ohm unshielded twisted pair cable with an industry standard single wire 110 punchdown tool. Patch panels shall include a universal label coded for T568A and T568B wiring schemes and mount to 19" and 23" racks. Patch panels shall be easy to identify with pre-printed numbers, write-on areas and optional label kits. The DP6A™ 10Gig™ Punchdown Patch Panel must be installed as part of the TX6A™ 10Gig™ UTP Copper Cabling System to achieve IEEE 10GBASE-T certified performance.

technical information

Category 6A/Class E$_A$ channel and component performance:	Exceeds channel requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E$_A$ standards for supporting 10GBASE-T transmission over twisted pair cabling systems in a 4-connector configuration up to 100 meters at swept frequencies 1 to 500 MHz
	Exceeds component requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E$_A$ standards at swept frequencies 1 to 500 MHz
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
UL rated:	UL 1863 approved
Conductor termination range:	Compatible with 22 – 26 AWG solid or stranded IWC cable with conductor insulation diameters of 0.048 in.
Mounting option:	Mounts to standard EIA 19" or 23" racks (with optional extender bracket)
Packaging:	Includes M6 and #12-24 mounting screws

key features and benefits

100% performance tested	Confidence that each jack module will deliver the critical electrical performance requirements
Advanced electrical compensation technology	Headroom over industry standards for lower risk and high bandwidth availability
Individually serialized	Each port is marked with quality control number for future traceability
RJ45 interface	Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible
Identification	Can be clearly identified with optional labels and icons for port identification
Universal wiring scheme	T568A and T568B wiring schemes clearly identified
Industry standard termination tool	PDT110 single wire 110 punchdown tool termination tool ensures conductors are fully terminated
Block out device (optional)	Provides a simple and secure method to control access to data ports while not in use
Angled design (optional)	Facilitates proper bend radius control and minimizes the need for horizontal cable managers
Replacement port module (optional)	Ability to replace field damaged ports for complete panel utilizations

applications

DP6A™ 10Gig™ Punchdown Patch Panels are a component of the TX6A™ 10Gig™ UTP Copper Cabling System with MaTriX Technology. This end-to-end system provides a cost effective medium for ensuring that network bandwidth needs are easily met today and tomorrow. The Panduit solution helps ensure organizations efficiently and reliably meet their data transmission needs. With certified performance to the ISO 11801 Class E$_A$ Edition 2.1, IEEE 802.3an-2006 and ANSI/TIA-568-C.2 Category 6A standards, this system will support high bandwidth applications with data centers and connections to high end workstations such as stacking switches and switch-to-switch links, storage area networks, aggregation of Gigabit Ethernet channels, real-time intensive financial transactions, streaming video, animation, scientific modeling and medical imaging.

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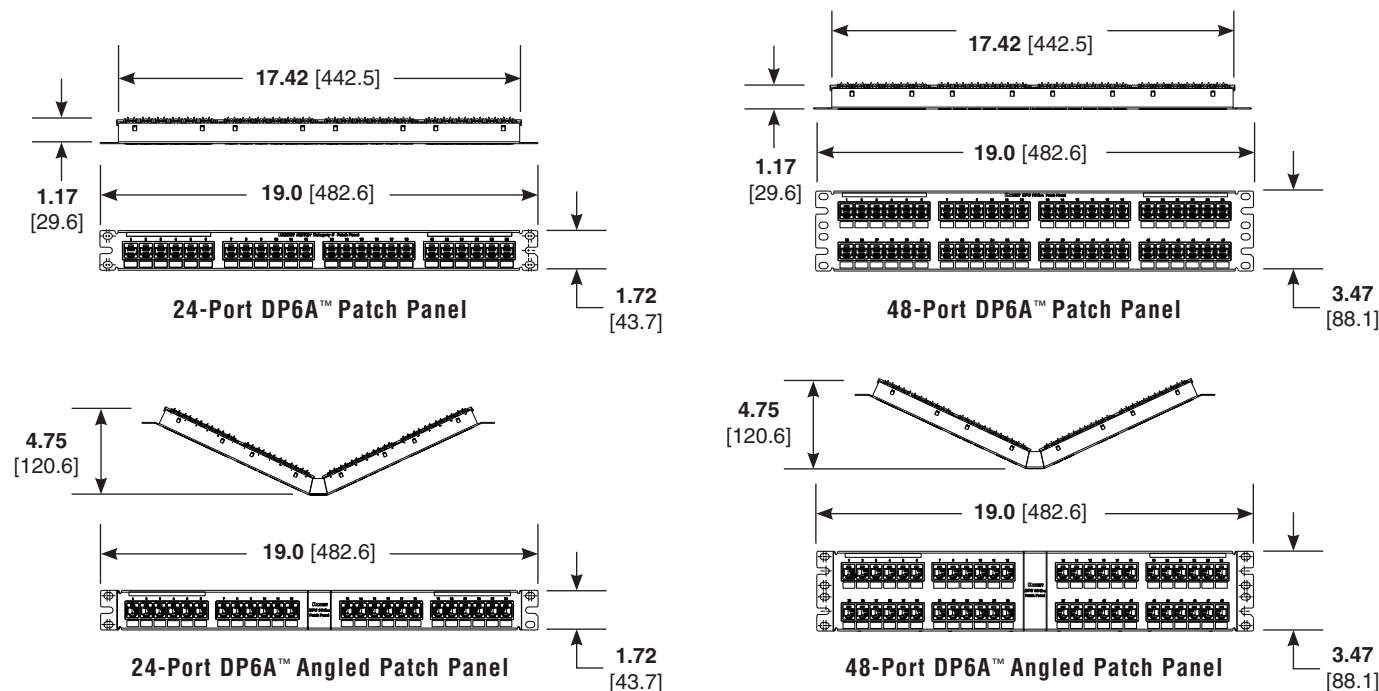**TX6A™ 10Gig™ UTP Copper Cabling System with MaTriX Technology**

DP6A™ 10Gig™ Angled Punchdown Patch Panels	
24-port, 1 RU:	DPA246X88TGY
48-port, 2 RU:	DPA486X88TGY

DP6A™ 10Gig™ Flat Punchdown Patch Panels	
24-port, 1 RU:	DP246X88TGY
48-port, 2 RU:	DP486X88TGY

TX6A™ 10Gig™ UTP Copper Cable with MaTriX Technology (100 meter solution)	
Plenum:	PUP6A04*-UG
Riser:	PUR6A04*-UG
LSZH:	PUL6A04‡-+G
CM:	PUC6A04‡-+G

TX6A™ 10Gig™ UTP Patch Cords (100 meter solution) — Dual Rated	
Foot lengths:	UTP6A^
Meter lengths:	UTP6A^^M

TX6A-SD™ 10Gig™ UTP Patch Cords (70 meter solution) — Dual Rated

Tools and Accessories	
Wire snipping tool:	CWST
Wire stripping tool:	CJAST
Punchdown tool:	PDT110
24-port label kit:	DPLK24
48-port label kit:	DPLK48
Replacement module:	DRJ6X88TGBL
Strain relief bar:	SRBM19BLY or SRB19D7BL
Extender bracket:	PEB1
Clear dust cap:	MDC-C
Block out device:	PSL-DCJB-^^^
Phone icons:	CIPIW-C‡
Data icons:	CIDIW-C‡

*To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

+Add suffix E when ordering for countries in Europe, Middle East, or Africa.

^For lengths 3 to 20 feet (one foot increments) and 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet). For example, the part number for a blue 15-foot patch cord is UTP6A15BU.

^^For lengths 3 to 10 meters (one meter increments) and 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White IG, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet). For example, the part number for a blue 15-meter patch cord is UTP6A15MBU.

^^^To designate color other than Red, add suffix BL (Black), BU (Blue), YL (Yellow), GR (Green), OR (Orange), IW (Off White) or IG (International Gray) at the end of the part number. 10/package.

‡To designate color other than IW (Off White), replace IW with EI (Electric Ivory), IG (International Gray), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet) in the part number. 100/package.

Test Results

Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	—	Load (grams)	>100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	<40
Shock	IEC 512-6c	Contact Disturbance (microseconds)	<5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	<40
Mating/Un-Mating	IEC 512-13b	Mating Force (N)	<20
		Un-Mating Force (N)	<20
Termination Cycles	IEC 352	Number of Cycles	<20

Electrical Test	Test Method	Measurement	Typical Test Results
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	<20
Dielectric Withstand Voltage	IEC 512-4a	1000 V, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (mOhms)	>500

Environmental Test	Test Method	Measurement	Typical Test Results
Temperature Life	IEC 512-9b	Circuit Resistance (mOhms)	<40
Humidity	IEC 512-11c	Circuit Resistance (mOhms)	<40
Thermal Shock	IEC 512-11d	Circuit Resistance (mOhms)	<40
Climatic Sequence	IEC 512-11a	Circuit Resistance (mOhms)	<40
Flowing Mixed Gas Corrosion	IEC 512-11g	Circuit Resistance (mOhms)	<40

17.42 [442.5]
1.17 [29.6]
19.0 [482.6]
1.72 [43.7]

24-Port DP6A™ Patch Panel

17.42 [442.5]
1.17 [29.6]
19.0 [482.6]
3.47 [88.1]

48-Port DP6A™ Patch Panel

4.75 [120.6]
19.0 [482.6]
1.72 [43.7]

24-Port DP6A™ Angled Patch Panel

4.75 [120.6]
19.0 [482.6]
3.47 [88.1]

48-Port DP6A™ Angled Patch Panel

Dimensions are in inches. [Dimensions in brackets are metric].

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300 and reference COSP245

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