

## TX6500™ Headroom Performance Platform

The TX6500™ solution is a fully integrated system designed for optimum network performance and reliability. The solution provides end-users with assurance that the TX6500™ system will exceed the ANSI/TIA-568-C.2 Category 6 standard relative to the following key electrical parameters: Insertion Loss, Near-End Crosstalk (NEXT) Power Sum NEXT, ACR, Power Sum ACR, and Return Loss.

To determine the guaranteed headroom performance shown below, over 100 channels were constructed, tested, and analyzed.

- These channels consisted of three and four connector topologies – in both short and long cabling runs – to ensure true worst-case conditions
- Testing was conducted at swept frequencies from 1 MHz to 250 MHz per industry standards
- The testing represents “real world” conditions through the use of an industry recognized hand-held tester, not test analyzers or computer models

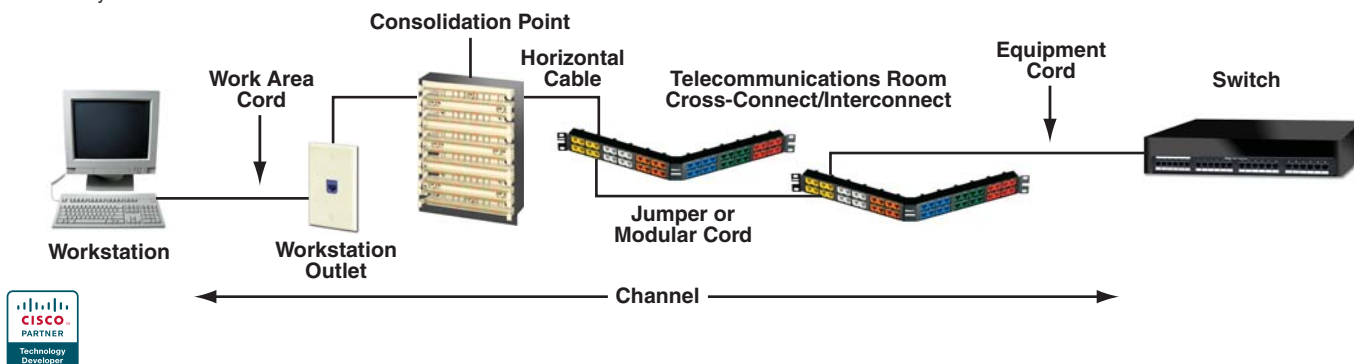
| Guaranteed Channel Headroom |                     |
|-----------------------------|---------------------|
| Electrical Value            | Over Standard (dB*) |
| Insertion Loss              | 9.0%                |
| NEXT                        | 6.0dB               |
| PSNEXT                      | 7.5dB               |
| ACR-N                       | 7.0dB               |
| PSACR-N                     | 9.0dB               |
| ACR-F                       | 8.0dB               |
| PSACR-F                     | 10.0dB              |
| Return Loss                 | 3.0dB               |

In order to ensure headroom performance, all systems must be installed per applicable standards by a Panduit Certified Installer.

| System Components       |                                                          |
|-------------------------|----------------------------------------------------------|
| Horizontal Cable        | TX6500™ U/UTP Cable                                      |
| Work Area               | Mini-Com® TX6™ PLUS Jack Module                          |
| Telecommunications Room | DP6™ PLUS Patch Panel<br>Mini-Com® TX6™ PLUS Jack Module |
| Consolidation Point     | GP6™ PLUS Punchdown System                               |
| Patch Cords             | TX6™ PLUS Patch Cords                                    |

| Applications |                                                     |
|--------------|-----------------------------------------------------|
| 1000BASE-T   | 1.2 Gb/s ATM, 622 Mb/s ATM, 155 Mb/s ATM            |
| 1000BASE-TX  | Token Ring 4/16                                     |
| 100BASE-TX   | TP-PMD                                              |
| 10BASE-TX    | Future applications intended for Category 6 cabling |

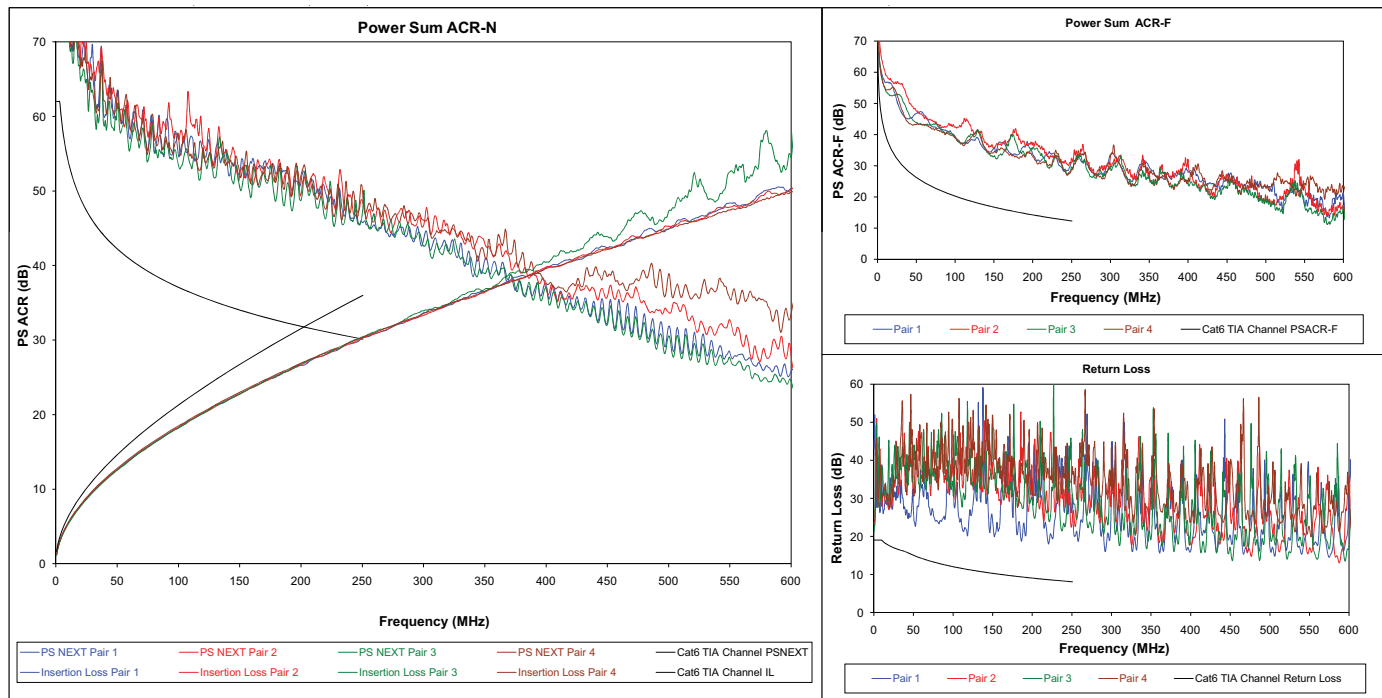
| Standard Compliance |  |
|---------------------|--|
| ISO 11801           |  |
| ANSI/TIA-568-C.2    |  |
| TIA-569-B           |  |
| ANSI/TIA-606-A      |  |



Panduit is a Solutions Enabler Partner for IP Communications within the Cisco Technology Developer Program.



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## TX6500™ Solution Part Numbers

| Cable Type              | Part Number | Description                                                                                                                                                     |
|-------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category 6 U/UTP Riser  | PUR6504*-UY | Enhanced high-performance Category 6 riser (CMR cable with separator). Conductors are 23 AWG construction. ETL tested and verified for Category 6 performance.  |
| Category 6 U/UTP Plenum | PUP6504*-UY | Enhanced high-performance Category 6 plenum (CMP cable with separator). Conductors are 23 AWG construction. ETL tested and verified for Category 6 performance. |

\*Available in Black (BL), Blue (BU), Green (GR), International Gray (IG), Orange (OR), Red (RD), Violet (VL), White (WH) and Yellow (YL).

| Work Area                       | Part Number | Description                                                     |
|---------------------------------|-------------|-----------------------------------------------------------------|
| Mini-Com® TX6™ PLUS Jack Module | CJ688TGIW** | Category 6, RJ45, 8-position, 8-wire universal module.          |
| TX6™ PLUS Patch Cord            | UTPSP***Y   | Category 6 patch cord with TX6™ PLUS Modular Plug on both ends. |

\*\*See catalog for available colors.

\*\*\*For lengths 3' to 20' (increments of 1') 25', 30', 35' and 40' change the length in the part number to the desired length.

| Telecommunications Room      | Part Number | Description                                        |
|------------------------------|-------------|----------------------------------------------------|
| DP6™ PLUS Flat Patch Panel   | DP24688TGY  | Category 6, 24-port, flat punchdown patch panel.   |
| DP6™ PLUS Flat Patch Panel   | DP48688TGY  | Category 6, 48-port, flat punchdown patch panel.   |
| DP6™ PLUS Angled Patch Panel | DPA24688TGY | Category 6, 24-port, angled punchdown patch panel. |
| DP6™ PLUS Angled Patch Panel | DPA48688TGY | Category 6, 48-port, angled punchdown patch panel. |

| Consolidation Point        | Part Number | Description                            |
|----------------------------|-------------|----------------------------------------|
| GP6™ PLUS Punchdown System | GPKBW24Y    | Category 6, punchdown termination kit. |

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