**Mini-Com® TX6A 10Gig™ UTP Jack Modules**

- **Benefits of Small Diameter**
- **Category 6A Copper Cabling System**

**Key Features**

- **Benefits**

**About 20 AWG Category 6A Cabling**

- **Reduced Cables**

- **Agility and Flexibility**

- **Expanded Usage and Sales Channels**

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**Mini-Com High Density Modular Patch Panels**

- **Accept Mini-Com Jack Modules, which snap in and out for easy moves, adds, and changes**
- **Conserve valuable rack space**
- **Provide numbers above each port for easy identification**

- **Material is standard EIA 19" rack or 23" racks with optional extended features**
- **Angled patch panels facilitate proper bend radius control and T568B wiring schemes**
- **Operating temperature range: -4°F to 167°F (-20°C to 75°C)**
- **Cable diameter 0.240 in. (6.1mm) nominal**
- **Labels on patch cords provide identification of performance category**
- **Plug uses an integral pair manager to optimize performance**
- **System rivals the performance of a shielded system without the need for bonding and grounding and eliminates the concern for discontinuous metallic elements that provide a very high degree of alien crosstalk suppression. This UTP cabling system becomes a cost effective option, and with the MaTriX Technology it provides a high performance Category 6A cabling system that is fully compliant up to 70 meters (230 feet). This high performance cabling system utilizes 26 AWG copper conductors and patent pending MaTriX Technology to suppress alien crosstalk.**

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**Mini-Com® TX6A 10Gig™ UTP Cable**

- **Exceed all applicable and cable crosstalk requirements of ANSI/TIA-568-C.2 Category 6A, IEEE 802.3an-2006 Class E, ISO 11801 Class EA**
- **Meet requirements of IEEE 802.3af and 802.3at for PoE and PoE+ applications**
- **Each jack is 100% tested to ensure NEXT and FEXT performance and is individually serialized for traceability**
- **Utilize patented enhanced Gig-TX™ Technology and UTP Copper Cabling System with MaTriX Technology to provide a variety of color-coding options and results in a cabling system that is easier to install and manage with all electrical parameters and larger wire gauges is signal attenuation: the attenuation of a 26 AWG cable at 70 meters is similar to that of a 22 AWG cable at 50 meters, and larger wire gauge copper conductors (22 AWG, 20 AWG, 18 AWG) are cost-effective options.**

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

- **No punchdown tool required, terminal tool required (EDUT)**
- **Terminate 4 pairs at 22 ~ 26 AWG, 100 units or less, eliminating the need for a separate cable stripper**
- **Universal terminal cap is color-coded for TX6A and T568B wiring schemes**

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**Part Description**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX6A-SD-1G8</td>
<td>48-port high density flush mount patch panel supplied with rear mounted faceplates.</td>
</tr>
<tr>
<td>TX6A-SD-2G8</td>
<td>72-port high density flush mount patch panel supplied with rear mounted faceplates.</td>
</tr>
<tr>
<td>TX6A-SD-4G8</td>
<td>96-port high density flush mount patch panel supplied with rear mounted faceplates.</td>
</tr>
<tr>
<td>TX6A-SD-1G6</td>
<td>48-port high density angled patch panel with enhanced labeling features and compatibility with Panduit hand-held printers.</td>
</tr>
<tr>
<td>TX6A-SD-2G6</td>
<td>72-port high density angled patch panel with enhanced labeling features and compatibility with Panduit hand-held printers.</td>
</tr>
<tr>
<td>TX6A-SD-4G6</td>
<td>96-port high density angled patch panel with enhanced labeling features and compatibility with Panduit hand-held printers.</td>
</tr>
<tr>
<td>TX6A-SD-2G6M</td>
<td>72-port high density angled patch panel with enhanced labeling features and compatibility with Panduit hand-held printers.</td>
</tr>
</tbody>
</table>

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**Part Description**

<table>
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<th>Part Number</th>
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<tbody>
<tr>
<td>CPP48HDVNSWBL</td>
<td>72-port high density flush mount patch panel supplied with rear mounted faceplates.</td>
</tr>
<tr>
<td>CPP48HDEWBL</td>
<td>48-port high density angled patch panel with enhanced labeling features and compatibility with Panduit hand-held printers.</td>
</tr>
<tr>
<td>CPPA72FMWBLY</td>
<td>72-port high density angled patch panel with enhanced labeling features and compatibility with Panduit hand-held printers.</td>
</tr>
</tbody>
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**TX6A-SD 10Gig™ UTP Patch Cords**

- **Benefits of Small Diameter**
- **Category 6A Copper Cabling System**

**Part Description**

<table>
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<tr>
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<tbody>
<tr>
<td>UTP6ASD5BU</td>
<td>5-foot Category 6A, plenum (CMP), 4 pair, UTP copper cable. Copper conductors are surrounded by a patent-pending matrix tape, and protected by a flame-retardant PVC jacket.</td>
</tr>
<tr>
<td>UTP6ASD15BU</td>
<td>15-foot Category 6A, plenum (CMP), 4 pair, UTP copper cable. Copper conductors are surrounded by a patent-pending matrix tape, and protected by a flame-retardant PVC jacket.</td>
</tr>
<tr>
<td>UTP6ASD30BU</td>
<td>30-foot Category 6A, plenum (CMP), 4 pair, UTP copper cable. Copper conductors are surrounded by a patent-pending matrix tape, and protected by a flame-retardant PVC jacket.</td>
</tr>
<tr>
<td>UTP6ASD50BU</td>
<td>50-foot Category 6A, plenum (CMP), 4 pair, UTP copper cable. Copper conductors are surrounded by a patent-pending matrix tape, and protected by a flame-retardant PVC jacket.</td>
</tr>
<tr>
<td>UTP6ASD100BU</td>
<td>100-foot Category 6A, plenum (CMP), 4 pair, UTP copper cable. Copper conductors are surrounded by a patent-pending matrix tape, and protected by a flame-retardant PVC jacket.</td>
</tr>
</tbody>
</table>

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**Product Bulletin Number**

12/2012

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**Contact Customer Service by email:** cs@panduit.com

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Why 70 meters?
Panduit developed the TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology to address critical parameters such as cable size, performance, and cost. Panduit® MaTriX® technology is backed by independent testing and validates that 98% of all channels in data centers are less than 70 meters with 90% less than 50 meters. This research and product development resulted in a cost effective small diameter cabling solution that now meet 99% of data center installations.

Can TX6A-SD™ 10Gig™ UTP Patch Cords be used in a channel with TX6A-10Gig™ 23 AWG UTP Copper Cable with MaTriX Technology?
Yes, small diameter TX6A-10Gig™ Patch Cords are a very appealing option as they greatly improve manageability when connecting 48- or 3-port high density switches. Up to 16 meters of TX6A-SD™ smaller diameter patch cords can be installed with existing Panduit® TX6A-10Gig™ 23 AWG horizontal cabling without having to re-do the channel length. If a total of more than 10m (33 ft.) of patch cords are installed, the maximum channel length should be de-rated by 50% for the amount greater than 10m. For example, if 10m (40 ft.) of patch cords are installed, the maximum channel length would be de-rated by 2.5m (8 ft.) to 73m maximum (i.e., 4m x 50% de-rated from 100 meters).

Comparing Panduit TX6A-SD™ 10Gig™ UTP Copper Cabling System to TSB-155 Only Compliant Solutions
Because of smaller diameter cable, Category 6A cables can potentially be used in a greater variety of environments when compared to TSB-155 compliant solutions. These differences are due to the ideal parameters of alien crosstalk and cannot be fully controlled for 10Gig™ Category 6A performance unless time-consuming and expensive testing for alien crosstalk is carried out in the field. In addition assertion tests, NEXT and PSANEXT data better represent the true performance when compared to TIA Category 6A. The solutions may be prone to field installation techniques such as unfurling cables or using non-adjacent ports to ensure 10Gig™ performance. The TX6A-SD™ 10Gig™ UTP Copper Cabling System is a Category 6A system that exceed ANSI/TIA-568-C.2 and ISO 11801 Class E, low, crosstalker crosstalk parameter up to 70 meters. It should not be confused with other Category 6A small diameter cables that claim 10Gig™ performance, but only meet TSB-155 guidelines.

Panduit TX6A-SD™ 10Gig™ UTP Copper Cable improves performance compared to baseline Category 6A UTP cables. Panduit TX6A-SD™ 10Gig™ UTP Copper Cables provide a reliable 10Gigabit Ethernet network.

Each cable fill example represents 100 cables installed in a pathway. The visual comparison clearly identifies the capacity improvement: Panduit TX6A-SD™ 10Gig™ UTP Copper Cables provide above other industry standard Category 6A UTP Cables.

Impressed Cable Fill Capacity
Panduit Category 6A UTP Cabling Options

Cable constructions are either industry standard cable diameters or smaller cable diameters. A .240 (6.1mm) cable diameter is the only cable diameter that will meet TSB-155 guidelines.

Panduit® MaTriX® UTP Copper Cables improve performance compared to industry standard cables. The .240 (6.1mm) cable diameter is not recommended for use in data centers.

Panduit® TX6A-SD™ 10Gig™ UTP Copper Cables improve performance compared to industry standard cable diameters. A .240 (6.1mm) cable diameter is the only cable diameter that will meet TSB-155 guidelines.
### TX6A-SD® 10Gig™ UTP Jack Modules

- **Benefits of a Small Diameter**
  - Category 6A Copper Cabling System

Panduit TX6A-SD® 10Gig™ UTP Jack Modules feature advanced technology designed to handle today’s high-speed networking applications. Made of lightweight plastic, these modules are available in a variety of colors and are designed to be snapped onto horizontal cable for easy installation. They provide high density patch panel support with advanced technology, including MaTriX Technology, which offers superior performance and reduced cable length requirements while maintaining cable pair geometry and eliminating conductor untwist. They are designed to meet the needs of today’s high-speed networks, with a guaranteed headroom margin well above industry standards. The TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology is a cost-effective, small-diameter Category 6A UTP cabling system that is fully compliant up to 500 meters (1640 feet). This high performance cabling system also makes use of unshielded twisted pair (UTP) copper cabling, which utilizes 26 AWG copper conductors and provides a high performance Category 6A cabling system that rivals the performance of a shielded system without the need for bonding and grounding. It is ideal for general cabling applications and allows bundling and co-mingling with other copper category cables.

**Key Features**
- **Benefits**
  - Reduced cable diameter
  - Improved installation flexibility
  - Enhanced performance
  - Improved electrical characteristics

**Reduced Cables**
- **Reduced Djx**
  - 10Gig™ UTP Cable
  - Panduit Canada
  - Panduit Singapore PTE. LTD.
  - Panduit Australia PTY. LTD.
  - Panduit UK & Ireland

**Contact for more information**
- **Panduit Canada**
  - Phone: 44.20.8601.7200
  - cs-emea@panduit.com
- **Panduit Singapore PTE. LTD.**
  - Phone: 65.6305.7575
  - cs@panduit.com
- **Panduit Australia PTY. LTD.**
  - Phone: 61.3.9794.9020
  - cs-la@panduit.com

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### TX6A-SD® 10Gig™ UTP Patch Cords

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### TX6A-SD® 10Gig™ UTP Cable

- **Benefits of a Small Diameter**
  - Category 6A Copper Cabling System

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Panduit developed the “TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology to address the need for greater system headroom margin in commercial network infrastructure such as cable size, performance, and cost. Panduit’s label exhaustive knowledge of Data Center architectures determined that 98% of all channels in data centers are less than 70 meters with 95% less than 50 meters. This research and product development resulted in a cost effective small-diameter cable solution that left at least 98% of data center installations.

Why 70 meters?

With Panduit’s “TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology to address the need for greater system headroom margin in commercial network infrastructure such as cable size, performance, and cost. Panduit’s label exhaustive knowledge of Data Center architectures determined that 98% of all channels in data centers are less than 70 meters with 95% less than 50 meters. This research and product development resulted in a cost effective small-diameter cable solution that left at least 98% of data center installations.

Can TX6A-SD™ 10Gig™ UTP Patch Cords be used in a channel with TX6A™ 10Gig™ 23 AWG UTP Copper Cable with MaTriX Technology?

Yes, small diameter TX6A™ 10Gig™ Patch Cords are a very appealing option as they greatly improve manageability when connecting 48- or 50-density switches. Up to 10 meters of TX6A-SD™ smaller diameter patch cords can be incorporated with existing Panduit TX6A-SD™ 23 AWG horizontal cabling, without having to de-rate the channel length. If a total of more than 10m (33 ft.) of patch cords are installed, the maximum channel length should be derated by 50% for the amount greater than 10m. For example, if 14m (46 ft.) of patch cords are installed, the maximum channel length would be derated by 2.5m (8.2 ft.) to 97.5m maximum (i.e., 5m x 50%), subtracted from 100 meters.

Improved Cable Fill Capacity

Panduit’s TX6A-SD™ 10Gig™ UTP Copper Cabling System allows more than twice the number of cables in a cable tray compared to existing Panduit TX6A™ 10Gig™ 23 AWG UTP Copper Cabling System (Small Diameter). The cross-section of TX6A-SD™ UTP Copper Cables is optimized for Data Center and Enterprise environments with channel length up to 100 meters.

Panduit’s TX6A-SD™ UTP Copper Cables improve cable fill capacity compared to industry-standard cable fill capacity. Panduit’s TX6A-SD™ UTP Copper Cables compare favorably to small-diameter solutions that comply with TSB-155 guidelines. These are such as cable size, performance, and cost. Panduit’s label exhaustive knowledge of Data Center architectures determined that 98% of all channels in data centers are less than 70 meters with 95% less than 50 meters. This research and product development resulted in a cost effective small-diameter cable solution that left at least 98% of data center installations.

Panduit Cat 6A UTP Cabling Options

Each cable fill example represents 100 cables installed in a pathway. The visual comparison clearly identifies the capacity improvement Panduit TX6A-SD™ 10Gig™ UTP Copper Cables provide above other industry standard Category 6A UTP Cable systems.

<Figure: Diagram comparing cable fill capacity between TX6A-SD™ and conventional Cat 6A cabling systems.>
Why 70 meters?

Panduit developed the "TX6A-SD™" 10Gig™ UTP Copper Cabling System with MaTriX Technology to address the needs of today’s data center cabling environment, such as cable size, performance, and cost. Panduit’s high performance, low-cost fiber optic solutions ensure that 98% of all channels in data centers are less than 70 meters with 95% less than 50 meters. This research and product development resulted in a cost effective small diameter cabling solution that will meet 98% of all data center installations.

Can TX6A-10Gig™ UTP Patch Cords be used in a channel with TX6A-10Gig™ 23 AWG UTP Copper Cable with MaTriX Technology?

No, smaller diameter "TX6A™" Patch Cords are a very appealing option as they greatly improve manageability when connecting 48- or 32-port high density switches. Up to 10 meters of TX6A-SD™ smaller diameter patch cords can be installed without exceeding Panduit’s TX6A-10Gig™ UTP 23 AWG horizontal cabling, without having to re-size the channel-length. If a total of more than 10m (33 ft.) of patch cords are installed, the maximum channel length should be derated by 2.5m (8.2 ft.) for each 5m (16 ft) of patch cord added, to ensure 10 Gb/s performance. The TX6A-SD™ smaller diameter patch cords can be used up to 10 meters of TX6A-SD™ smaller diameter patch cords can be used in a channel with TX6A-10Gig™ 23 AWG UTP Copper Cabling System to ensure 10Gigabit Ethernet network.

Comparing Panduit TX6A-SD™ 10Gig™ UTP Copper Cabling System to TSB-155 Only Compliant Solutions

Before of smaller diameter cable in Category 6 cabling systems which claim TSB-155 compliance, pet only meet TSB-155 guidelines. There are minimal compliance guidelines and do not provide any guaranteed headroom margin for installation variations. These systems provide no margin on the critical parameters of alien crosstalk and cannot be fully certified for 10GBase-T performance unless line-terminating and expensive testing for alien crosstalk is carried out in the field. In addition, baseline tests, NEXT and PSNEXT, must be lower than specified by the TIA-568-C.2 standard to be fully compliant compared to TSB-155 Category 6. The solutions may be prone to field mitigation techniques such as retrofitting cables or using non-standard ports to ensure 10GBase-T performance. The TX6A-SD™ 10Gig™ UTP Copper Cabling System in a Category 6A system, exceed ANA3311-10G-25 and ISO 11801 Class E, channel and alien crosstalk parameters up to 70 meters. It should not be confused with other Category 6/4e small diameter cables that claim TSB-155 performance, but only meet TSB-155 guidelines.

Panduit Category 6A UTP Cabling Options

Panduit has developed the TX6A-SD™ 10Gig™ UTP Copper Cabling System with the highest guaranteed channel headroom performance in the industry. Smallest Category 6A UTP cabling system on the market, it is also backed by the highest guaranteed channel headroom performance in the industry.

Improved Cable Fill Capacity

Panduit’s TX6A-SD™ 10Gig™ UTP Copper Cables allow more than twice the number of cables in a cable tray compared to industry’s maximum cable diameter.

Panduit Labs’ extensive research and development resulted in a cost effective small diameter cabling system with MaTriX Technology to address the needs of today’s data center cabling environment, such as cable size, performance, and cost. Panduit’s high performance, low-cost fiber optic solutions ensure that 98% of all channels in data centers are less than 70 meters with 95% less than 50 meters. This research and product development resulted in a cost effective small diameter cabling solution that will meet 98% of all data center installations.

Cable Construction

Panduit TX6A-SD™ 10Gig™ UTP Copper Cables allow more than twice the number of cables in a cable tray compared to industry’s maximum cable diameter.

Panduit’s TX6A-SD™ 10Gig™ UTP Copper Cables are also fully certified for 10GBASE-T performance unless re-routed or spliced into industry standard metallic cable guidelines.

Panduit Labs’ extensive research and development resulted in a cost effective small diameter cabling system with MaTriX Technology to address the needs of today’s data center cabling environment, such as cable size, performance, and cost. Panduit’s high performance, low-cost fiber optic solutions ensure that 98% of all channels in data centers are less than 70 meters with 95% less than 50 meters. This research and product development resulted in a cost effective small diameter cabling solution that will meet 98% of all data center installations.

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**Mini-Com® High Density Modular Patch Panels**

- Acceptable Mini-Com® Jacks, which snap in and out for easy moves, adds, and changes.
- Compresses valuable rack space.
- Pre-printed numbers above each port for easy identification.

**Category 6A, 10Gig™ UTP Jack Modules**

- Meets requirements of IEEE 802.3af, and 802.3at for PoE and PoE+ applications.

**Part Description**

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<td>72-port high density flush mount patch panel supplied with mounted faceplates</td>
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<td>piece</td>
</tr>
</tbody>
</table>

**Cable Diameter**

- 0.240 in. (6.1mm) nominal

**Temperature Range**

- -4°F to 167°F (-20°C to 75°C)

**Other Features**

- No punchdown tool required; termination tool (EGJT) included.
- Terminal block is factory-forwarded for vertical or horizontal installation.
- All wire gauges are 26 AWG stranded twisted pair cable.
- Stranded twisted pair cable ensures conductors are fully terminated by utilizing a stranded twisted pair jack.
- Labels on patch cords provide identification of performance category cables.
- Optimal RJ45 plug bootless design protects snag-proof RJ45 jack, often replacing equipment or critical connection.
- Meets requirements of ANSI/TIA-568-C.2 Category 6A (SD), 10 Gb/s UTP patch cord with TX6A™ 10Gig™ Modular Plugs.

**Mini-Com® TX6A™ 10Gig™ UTP Jack Modules**

- Compresses valuable rack space.
- Pre-printed numbers above each port for easy identification.

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**Cable Diameter**

- 0.240 in. (6.1mm) nominal

**Temperature Range**

- -4°F to 167°F (-20°C to 75°C)

**Other Features**

- No punchdown tool required; termination tool (EGJT) included.
- Terminal block is factory-forwarded for vertical or horizontal installation.
- All wire gauges are 26 AWG stranded twisted pair cable.
- Stranded twisted pair cable ensures conductors are fully terminated by utilizing a stranded twisted pair jack.
- Labels on patch cords provide identification of performance category cables.
- Optimal RJ45 plug bootless design protects snag-proof RJ45 jack, often replacing equipment or critical connection.
- Meets requirements of ANSI/TIA-568-C.2 Category 6A (SD), 10 Gb/s UTP patch cord with TX6A™ 10Gig™ Modular Plugs.

**Benefits of a Small Diameter Category 6A Copper Cabling System**

- **Greenfield Installation – Maximizes real estate utilization through high-density physical infrastructure solutions combined with leading data center reference architectures.**
- **Agility and Flexibility**
  - Provides ideal solution for next-generation data centers that will host IT applications.
  - Meets all components of Category 6A (with some components requiring additional installation) for 1000BASE-T to 10GBASE-T applications.

**Reduced CapEx**

- **Material and labor costs**
  - Traditional data centers often need dedicated areas for horizontal cabling. The Panduit TX6A™ 10Gig™ 10Gb/s UTP Copper Cabling System with MaTriX Technology provides a cost-effective, small-diameter Category 6A UTP cabling system that is fully compliant up to 500 meters (1640 feet).
  - The high performance cabling system is comprised of unshielded twisted pair horizontal cable and patch cords, and utilizes 26 AWG copper conductors and patent pending Panduit MaTriX Technology to suppress alien crosstalk. The Panduit TX6A™ 10Gig™ 10Gb/s UTP Copper Cabling System with MaTriX Technology is cost-effective, small-diameter Category 6A UTP cabling system that is fully compliant up to 500 meters (1640 feet).

**Product Bulletin Number**

- COCB07--SA-ENG
- 12/2012