Connect with the Black Box guaranteed-for-life ETL-Verified structured cabling channel solution.

» Patch Cable
» Bulk Cable
» Patch Panels
» Wiring Blocks
» Jacks
When it comes to an ETL-Verified CAT6 channel, come to Black Box

Guaranteed for life | Guaranteed best prices | Guaranteed performance

Guaranteed for life.
Our GigaTrue® CAT6 Channel Solution is guaranteed for life! Our unbeatable Double Diamond™ Warranty covers everything from manufacturing defects to accidental damage—including water and surge damage.

Plus, all Black Box® brand copper cables and most fiber cables and infrastructure components are also guaranteed for life.

Guaranteed best prices.
Our Best Price Guarantee means you can buy with confidence from Black Box. You probably won’t find a lower price elsewhere. But if you do find another manufacturer’s product at a lower price than the Black Box equivalent, provide us with a copy of the competitor’s quote, and we’ll beat it with our own Black Box® solution. (Certain custom products are excluded.) For more details, call Customer Service at 724-746-5500 or go to blackbox.com.

Guaranteed performance.
To ensure consistent top quality, Black Box participates in independent third-party testing by InterTek Testing Services/ETL Semko, Inc. Once a quarter, an Intertek inspector visits Black Box and randomly selects cable and cabling products for testing.

Our GigaTrue® CAT6 Solid Bulk Cable is ETL Verified at the component level to verify that it conforms to the applicable industry standards.

The GigaTrue® CAT6 Channel, consisting of bulk cable, patch cable, jacks, patch panels, and wiring blocks, is tested and verified according to industry standards under InterTek’s Cabling System Channel Verification Program.

For test results, see the next page or contact us at 724-746-5500 or go to blackbox.com.
ETL Verified GigaTrue CAT6 Channel Solution Test Results

### Buyer’s Guide | ETL Verified* GigaTrue® CAT6 4-Connector Channel Electrical Performance

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<th>Frequency (MHz)</th>
<th>Attenuation dB/100 m (328 ft.)</th>
<th>Return Loss Spec</th>
<th>NEXT dB/100 m (328 ft.)</th>
<th>PS-NEXT dB/100 m (328 ft.)</th>
<th>ACR dB/100 m (328 ft.)</th>
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Buyer’s Guide | ETL Verified* GigaTrue® 550 CAT6 Solid Bulk Cable, Plenum, Electrical Performance (Page 4)

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### GigaTrue 550 CAT6, 550-MHz Solid Bulk Cable (UTP)

**Key Features**
- High-performance digital video applications.
- Gigabit Ethernet.
- 4-Pair Pull Box.
- Cross-web design increases strength and performance.
- Meets Proposed TIA/EIA-568-C.6a standards.

**Construction Facts**
- PVC cable has polyolefin insulation and a flame-retardant jacket.
- The plenum cable features a Flexguard flame-retardant PVC jacket and FEP insulation.
- Both have a longitudinal rip cord for easy jacket opening.

**Guaranteed for Life**
- You're covered. We guarantee—for life—this cable and all the products in our GigaTrue line.

**Applications**
- Gigabit Ethernet.
- High-bandwidth network applications.
  - Backbone.
  - Horizontal cabling.
  - Active zone cabling.
- High-performance digital video applications.

**Compliance**
- UL® 444, Safety Vol.1, Sec 13.
- ISO/IEC 11801 Class E.
- ETL Verified.
- RoHS 2002/95/EC.
- EN 61000-6-4 and FEP insulation.

### TECH SPECS

- **AC Leakage Current Throughout Overall Jacket** — AC 1500V ± 10 mA
- **ACR (Minimum at 100 m)** — 2.65 ρG at 100 MHz; 2.75 ρG at 250 MHz
- **Delay Skew (Maximum)** — 2.5 ns/100 m
- **Dielectric Strength** — 2.5 kV
- **Dielectric Strength Throughout Overall Jacket** — 2.5 kV
- **DC Resistance Unbalance (Maximum)** — 0.057 ohm/67° F
- **Acoustic Noise** — 42 db at 100 MHz; 40 db at 250 MHz; 35 db at 550 MHz
- **Adjacent Pair Crosstalk (Maximum)** — 46.3 dB at 100 MHz; 40.3 dB at 250 MHz; 35.2 dB at 550 MHz
- **Adjacent Pair Delay Skew (Maximum)** — 4.5 ns/100 m
- **Adjacent Pair Return Loss (Minimum at 100 m)** — 20.1 dB at 100 MHz; 17.3 dB at 250 MHz; 14.9 dB at 550 MHz
- **ANSI/TIA/EIA-568-C.2 Category 6**
- **Attenuation (Maximum at 100 m)** — 20.1 dB at 100 MHz; 17.3 dB at 250 MHz; 14.9 dB at 550 MHz
- **Bend Radius (Minimum for Installation)** — 4.5 ft
- **Conductor Resistance** — 330 ohms at 100 MHz
- **Conductor Resistance Throughout Overall Jacket** — 46.3 ohms at 100 MHz
- **Conductor Resistance Between Adjacent Pairs** — 330 ohms at 100 MHz
- **Cross-web design increases strength and performance.
- **Guaranteed for life.**
- **High performance digital video applications.**
- **Polyolefin insulation and a flame-retardant jacket.**
- **E196163-P.**
- **RoHS 2002/95/EC.**
- **ETL Verified.**
- **UL® 444, Safety Vol.1, Sec 13.**

**Weight** — 23 AWG, solid, bare copper.

**RCA 2000 V/2 sec**

**Spark Test** — 2.5 KV

**U.S. and Canada 2.5 KV**

**Violet 440 V/1 sec**

**Violet 2.5 KV**

**White 440 V/1 sec**

**White 2.5 KV**

**Yellow 440 V/1 sec**

**Yellow 2.5 KV**

**Blue 440 V/1 sec**

**Blue 2.5 KV**

**ATTENTION**

- PVC:
  - CMR;
  - CSA,
  - CMG,
  - FT4.
  - Plenum:
  - CMP,
  - FT6.
  - E196163-P.
  - RoHS 2002/95/EC.
  - ETL Verified.
  - UL®

**WARRANTY** — Lifetime

**Guaranteed for life.**

- You're covered. We guarantee—for life—this cable and all the products in our GigaTrue line.

**Applications**

- Gigabit Ethernet.
- High-bandwidth network applications for:
  - Backbone.
  - Horizontal cabling.
  - Active zone cabling.
- High-performance digital video applications.

**Compliance**

- UL® 444, Safety Vol.1, Sec 13.
- ISO/IEC 11801 Class E.
- ETL Verified.
- RoHS 2002/95/EC.
- EN 61000-6-4 and FEP insulation.

**ATTENTION**

- PVC:
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**Applications**

- Gigabit Ethernet.
- High-bandwidth network applications for:
  - Backbone.
  - Horizontal cabling.
  - Active zone cabling.
- High-performance digital video applications.
GigaTrue 550 CAT6 Patch Cables (UTP)

Your patch panel and desktop connection.
- Tested to 550 MHz.
- Guaranteed to meet or exceed ANSI/TIA/EIA-568-C.2 CAT6 specs.
- Specially designed for use with our GigaTrue® channel.
- Superior construction offers significant headroom.
- Tuned-plug design maintains a tighter twist and reduces noise.
- Enhanced performance parameters and electrical characteristics.
- Gold-plated contacts are designed for an insertion/extraction life of 1000 cycles.

Construction facts.
- Cable features four stranded pairs, 24 AWG stranded copper, insulation, and a PVC jacket.
- Straight-pinned cables come with snagless or basic connectors. Cables with molded hoods are available.

Guaranteed for life.
- You’re covered. We guarantee—for life—this cable and all the products in our GigaTrue line.

Proven performance.
- InterTek Testing Services/ETL Semko, Inc. conducts quarterly tests on these cables as part of the GigaTrue Channel Solution. (See page 3 for test results.)

Applications
- Gigabit Ethernet.
- High-bandwidth network applications for:
  - Horizontal cabling.
  - Desktop cabling.
  - Active zone cabling.
- High-performance digital video applications.

Compliance
- ISO/IEC 11801.
- ETL Verified.
- UL® Listed.
- E196163-P.
- PVC: CMR, CSA, CMG.

TECH SPECS

- **Attenuation** — 40.5 dB/100 m (328 ft.) at 250 MHz;
  62.1 dB/100 m at 550 MHz
- **Cable Type** — 4-pair UTP
- **Conductor** — 24 AWG, stranded, bare copper
- **Frequency** — Up to 550 MHz
- **Impedance** — 100 ± 15 ohms
- **NEXT** — 38.3 dB/100 m (328 ft.) at 250 MHz; 33.2 dB/100 m at 550 MHz
- **PS-NEXT** — 36.3 dB/100 m at 250 MHz; 31.2 dB/100 m at 550 MHz
- **Return Loss** — 15.6 dB/100 m at 250 MHz; 2.6 dB/100 m at 550 MHz

Your patch panel and desktop connection.

Choose from as many as 12 colors.

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<td>22</td>
<td>26</td>
<td>30</td>
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<td>23</td>
<td>27</td>
<td>31</td>
</tr>
</tbody>
</table>

724-746-5500 | blackbox.com
**GigaTrue CAT6 Patch Panels**

- ETL tested and verified as part of the GigaTrue® CAT6 channel.
- Use in 350-MHz applications.
- Meet or exceed ANSI/TIA/EIA-568-C.2 CAT6 specifications.
- The IDC-110 block features peaks to make lacing wires easier.
- Wide spacing between IDCs means increased room for cable.
- Stuffer caps hold the wires more securely.
- Rolled-edge steel construction provides superior panel rigidity to eliminate flex during termination.
- Universal wiring—panels are supplied with labeling for both T568A and T568B wiring.
- ✦✦ WARRANTY — Lifetime

**TECH SPECS**

- **Connectors** — RJ-45 female, 110 contacts; Panels also support RJ-11 plugs
- **Construction** — Steel (0.064" thick)
- **Wiring** — Straight-through
- **Size** — All: 19" W (48.3 cm)
  - JPM610A-R6: 1.75" H (1U) x 1.25" D (4.4 x 3.2 cm)
  - JPM612A-R6: 3.5" H (2U) x 1.25" D (8.9 x 3.2 cm)
  - JPM614A-R6: 7.5" H (4U) x 11.25" D (19.05 x 3.2 cm)
- **Weight** — JPM610A-R6: 1.4 lb. (0.6 kg)
  - JPM612A-R6: 3.6 lb. (1.6 kg)
  - JPM614A-R6: 7 lb. (3.2 kg)

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>GigaTrue CAT6 Patch Panels, Universal Wiring</td>
<td>JPM610A-R6</td>
</tr>
<tr>
<td>24-Port</td>
<td>JPM612A-R6</td>
</tr>
<tr>
<td>48-Port</td>
<td>JPM614A-R6</td>
</tr>
<tr>
<td>96-Port</td>
<td></td>
</tr>
</tbody>
</table>

✦ Include (1) patch panel, (8) cable ties, (4) 10–32 cuphead screws; (4) 12–24 cuphead screws; and (1) bag of stuffer caps

---

**CAT6 Wiring Block Kit**

- ETL tested and verified as part of the GigaTrue® CAT6 channel.
- Guaranteed to perform above CAT6 NEXT standards by 13 dB (worst case).
- Internal crosstalk barriers provide superior NEXT performance. It’s so good that it is virtually invisible when used as a consolidation point in a CAT6 channel.
- Ideal for VoIP systems.
- Pyramid wired entry system separates paired conductors reducing installation time.
- Cables can be routed through the rear of the block directly to the point of termination.
- Legs can be detached before, during, or after installation.
- Wiring base footprint is compatible with our existing 110 wiring blocks.
- Termination is easy with our Punchdown Tool with 110 Blade and Light Pack (below).
- ✦✦ WARRANTY — Lifetime

**TECH SPECS**

- **Connectors** — RJ-45 female, 110 contacts; Panels also support RJ-11 plugs
- **Construction** — Steel (0.064" thick)
- **Wiring** — Straight-through
- **Size** — All: 19" W (48.3 cm)
  - JPM610A-R6: 1.75" H (1U) x 1.25" D (4.4 x 3.2 cm)
  - JPM612A-R6: 3.5" H (2U) x 1.25" D (8.9 x 3.2 cm)
  - JPM614A-R6: 7.5" H (4U) x 11.25" D (19.05 x 3.2 cm)
- **Weight** — JPM610A-R6: 1.4 lb. (0.6 kg)
  - JPM612A-R6: 3.6 lb. (1.6 kg)
  - JPM614A-R6: 7 lb. (3.2 kg)

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT6 Wiring Block Kit, 64-Pair</td>
<td>JP061</td>
</tr>
<tr>
<td>✦ Includes (1) wiring block with legs (detachable), connecting blocks, label holders, labels, and mounting screws.</td>
<td></td>
</tr>
</tbody>
</table>

---

**Punchdown Tool with 110 Blade and Light Pack**

- Comes with a detachable 2200-mcd LED light.
- Includes a 110-style blade. Other blade styles are available.
- Accepts all manufacturers’ twist-and-lock style blades.
- ✦✦ WARRANTY — Lifetime
GigaTrue CAT6 Jacks

- ETL tested and verified as part of the GigaTrue® CAT6 channel.
- Meet TIA/EIA-568-C.2 CAT6 standards.
- Inside plane is closer to the front for better connectivity.
- A locking latch holds the jack housing snugly, improving communications.
- Round internal pins also improve connectivity.
- The termination retention stuffer cap provides strain relief.
- Make easy, tool-less terminations or use a 110 tool.
- Labeled with both T568A and T568B wiring schemes.
- Features a keystone style for snap-in installation.

Construction facts

- IDC contacts are phosphor bronze with tin plating.
- Nose contacts feature 50-micron gold plating over 100-micron nickel underplating.

Compliance

- ETL Verified.
- UL® Listed.
- FCC Part 68.

- **WARRANTY** — Lifetime

GigaStation2 Wallplates

- Rear-loading capability provides extra security at the workstation.
- The vertical orientation of all port openings provides a cleaner finish and eliminates mixing vertical and horizontal ports.
- Include paper labels with clear covers or color-matched covers and conform to TIA/EIA 606.

- **WARRANTY** — Lifetime

<table>
<thead>
<tr>
<th>Item</th>
<th>1-Port</th>
<th>2-Port</th>
<th>3-Port</th>
<th>4-Port</th>
<th>6-Port</th>
<th>9-Port</th>
<th>12-Port</th>
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</thead>
<tbody>
<tr>
<td>Ivory</td>
<td>WPT454</td>
<td>WPT460</td>
<td>WPT466</td>
<td>WPT472</td>
<td>WPT478</td>
<td>WPT484</td>
<td>WPT490</td>
</tr>
<tr>
<td>Office White</td>
<td>WPT456</td>
<td>WPT462</td>
<td>WPT468</td>
<td>WPT474</td>
<td>WPT480</td>
<td>WPT486</td>
<td>WPT492</td>
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<tr>
<td>White</td>
<td>WPT458</td>
<td>WPT464</td>
<td>WPT470</td>
<td>WPT476</td>
<td>WPT482</td>
<td>WPT488</td>
<td>WPT494</td>
</tr>
</tbody>
</table>

GigaStation2 Surface-Mount Housings

- Require only 1.5” (3.8 cm) of clearance.

- **WARRANTY** — Lifetime

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>First, order the Surface-Mount Housings...</td>
<td></td>
</tr>
<tr>
<td>GigaStation2 Surface-Mount Housings</td>
<td></td>
</tr>
<tr>
<td>1-Insert (up to 2 Ports)</td>
<td>WPT901</td>
</tr>
<tr>
<td>2-Insert (up to 4 Ports)</td>
<td>WPT902</td>
</tr>
<tr>
<td>3-Insert (up to 6 Ports)</td>
<td>WPT903</td>
</tr>
</tbody>
</table>

...then, order one, two, or three inserts per housing...

Inserts for GigaStation2 Surface-Mount Housings

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Port</td>
<td>FMT901</td>
</tr>
<tr>
<td>2-Port</td>
<td>FMT902</td>
</tr>
<tr>
<td>Blank</td>
<td>FMT900</td>
</tr>
</tbody>
</table>

NOTE: Does not include jacks or bezels.

---

**TECH SPECS**

- **Plug Insertion Life** — 750 cycles (minimum)
- **Plug and Jack Contact Force** — 0.22 lb. (0.1 kg) (minimum)
- **Plug Retention Force** — 30 lb. (minimum)
- **Temperature** — -40 to +150° F (-40 to +68° C)
- **Termination** — 110 punch
- **Size** — 0.75”H x 0.63”W x 1.13”D (1.9 x 1.6 x 2.9 cm)
- **Weight** — <0.1 lb. (<0.1 kg)

**Item** | **Single-Pack** | **25-Pack**
---|---|---
GigaTrue® CAT6 Jacks, Universal Wiring | | |
Blue | FMT630-R2 | FMT630-R2-25PA |
Black | FMT631-R2 | FMT631-R2-25PA |
Electric Ivory | FMT632-R2 | FMT632-R2-25PA |
Gray | FMT633-R2 | FMT633-R2-25PA |
Green | FMT634-R2 | FMT634-R2-25PA |
Office White | FMT635-R2 | FMT635-R2-25PA |
Orange | FMT636-R2 | FMT636-R2-25PA |
Red | FMT637-R2 | FMT637-R2-25PA |
White | FMT639-R2 | FMT639-R2-25PA |
Yellow | FMT640-R2 | FMT640-R2-25PA |
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- **EXPIASM12A**  Interlocking Armored Single-Mode Fiber Optic Cable
- **PP-SC50MM-10G**  Pre-Polished Fiber Connectors
- **40725**  RapidRun™ Modular Audio/Video Cabling System

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