Comprehensive Cable Tie Solutions

Panduit offers a broad selection of industry approved styles, sizes, and materials to meet a full range of electrical, industrial, and networking applications.

<table>
<thead>
<tr>
<th>Product Family</th>
<th>PLT</th>
<th>SG</th>
<th>BT</th>
<th>DT</th>
<th>CBR</th>
<th>HV</th>
<th>SST</th>
<th>ERT</th>
<th>PLWS</th>
<th>PLDC</th>
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<tr>
<td>Styles</td>
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<tr>
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<td>✓</td>
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<tr>
<td>Extra-Heavy</td>
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<td>✓</td>
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<td>✓</td>
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Cable Tie Industry Approvals

<table>
<thead>
<tr>
<th>Agency</th>
<th>Spec/Approval</th>
<th>Requirement</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL (Underwriters Laboratory)</td>
<td>UL 62275 (File E56854)</td>
<td>Types 1, 11, 2, 2S, 21, 21S (Note 1)</td>
<td>Select PLT, BT, SG, SST, and CBR Series</td>
</tr>
<tr>
<td>CSA (Canadian Standards Association)</td>
<td>CSA-C22.2 No. 62275 (File 31212)</td>
<td>Types 1, 11, 2, 2S, 21, 21S (Note 1)</td>
<td>Select PLT, BT, SG, SST, and CBR Series</td>
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<tr>
<td>ABS (American Bureau of Shipping)</td>
<td>05-HS463235-PDA</td>
<td>2005 Steel Vessel Rules 1-1-4/7, 7,4-8/4/21/9.32001 MODU Rules 4-3-5/9.1</td>
<td>PLT and BT Series</td>
</tr>
<tr>
<td>Bureau Veritas</td>
<td>Cert 05968/C0, BV File 14/601/01 Product Code: 2535H</td>
<td>Bureau Veritas Rules for the Classification of Steel Ships</td>
<td>PLT, PRT, BT and CBR Series</td>
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<tr>
<td>Det Norske Veritas</td>
<td>E-6405</td>
<td>Det Norske Veritas’ Rules for Classification of Ships and Mobile Offshore Units</td>
<td>PLT, PLC, PRT, PLW, PRW, PRWP and PRST Series</td>
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<tr>
<td>Lloyd’s Register of Shipping</td>
<td>8/60111 (E3)</td>
<td>Lloyd’s Register Type Approval</td>
<td>PLT, PLC, PLP, PLWP, PLM, PRT, SST, SSC, SSM, BT, BC, BM, BF, B2M, B3M, BM, BW, BP, ILT and CBR Series</td>
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<tr>
<td>Russian Maritime Register of Shipping</td>
<td>11130200</td>
<td>Russian Maritime Type Approval Certificate</td>
<td>PLT, PLC, PLM, PLF, SG, BT, BF, BM, BC, DT and CBR Series</td>
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<tr>
<td>NRC (Nuclear Regulatory Commission)</td>
<td>NRC 10CFR50</td>
<td>Quality Assurance Criteria for Nuclear</td>
<td>All cable tie products</td>
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<td>US Military Aerospace Standard</td>
<td>QPL-AS23190</td>
<td>SAE spec AS23190</td>
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## Material Selection Criteria

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<tr>
<td>Color</td>
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<td>Natural (other colors available)</td>
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<td>Part Number Suffix (Material Designation)</td>
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<td>30</td>
<td>39</td>
<td>300</td>
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<td>Tensile @ Yield @ 73°F (psi)</td>
<td>ISO 527</td>
<td>12,000</td>
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<td>Water Absorption (24 Hours)</td>
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<td>Weathering Life Expectancy</td>
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<td>1 – 2</td>
<td>7 – 9</td>
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<td>4 – 5</td>
<td>1 – 2</td>
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<td>Impact Resistance</td>
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<td>Hydrocarbons (Oil, Lubricants)</td>
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<td>Bases</td>
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<td>Acid Rain</td>
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<tr>
<td>Minimum Installation Temperature</td>
<td>UL 62275</td>
<td>-4°F or +32°F</td>
<td>-20°C or 0°C (Note 1)</td>
<td>-4°F or +32°F</td>
<td>-20°C or 0°C (Note 1)</td>
<td>-4°F or +32°F</td>
<td>-20°C or 0°C (Note 1)</td>
<td>-4°F or +32°F</td>
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<td>HB</td>
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<td>Low Smoke</td>
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<td>Oxygen Index</td>
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<td>Halogen-Free</td>
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<td>Yes</td>
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<td>Burning Fume Toxicity</td>
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<td>Heat Deflection Temperature @ 1.8 Mpa</td>
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<td>Low</td>
<td>Low</td>
<td>Med</td>
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</table>

### Material Availability

- **Pan-Ty** Cable Ties: PLT
- **Super-Grip** Cable Ties: SG
- **Dome-Top** Barb Ty Cable Ties: BT
- **Dura-Ty** Cable Ties: DT
- **Contour-Ty** Cable Ties: CBR
- **Hyper-V** Cable Ties: HV
- **Sta-Strip** Cable Ties: SST
- **Elastomeric Cable Ties**: ERT
- **Double Clamp Cable Ties**: PLDC
- **Wide Strap Cable Ties**: PLWS

### Cross Sections

- SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy

### Recommendation Legend

- Highest
- High
- Acceptable
- Low
- Lowest

Check mark indicates material availability in that product family for all cross sections.

<table>
<thead>
<tr>
<th>Flame Retardant Nylon 6.6</th>
<th>Weather Resistant Nylon 12</th>
<th>Polypropylene Weather Resistant Polypropylene</th>
<th>TEFZEL&lt;sup&gt;®&lt;/sup&gt;</th>
<th>HALAR&lt;sup&gt;®&lt;/sup&gt;</th>
<th>PEEK</th>
<th>Metal Detectable Nylon</th>
<th>Metal Detectable Polypropylene</th>
<th>DT Weather Resistant Acetal</th>
<th>ERT Flame Retardant TPU</th>
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<tbody>
<tr>
<td>Natural Ivory Black</td>
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<td>Black</td>
<td>Aqua Blue</td>
<td>Maroon</td>
<td>Translucent Brown</td>
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<td>Dark Blue</td>
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<td>69</td>
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<td>702Y</td>
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<td>11,000</td>
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<td>—</td>
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<td>1.1%</td>
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<td>0.1%</td>
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<td>3.5 x 10&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>1 x 10&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>1 x 10&lt;sup&gt;4&lt;/sup&gt;</td>
<td>6 x 10&lt;sup&gt;4&lt;/sup&gt;</td>
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<tr>
<td>1 – 2</td>
<td>12 – 15</td>
<td>1</td>
<td>7 – 9</td>
<td>&gt;15</td>
<td>&gt;15</td>
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<td>1</td>
<td>&gt;20</td>
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<td></td>
<td>7 – 9</td>
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</tr>
</tbody>
</table>

- **Note 1:** Check UL file for specific part number rating
- **Note 2:** Based upon UL RTI for electrical properties; mechanical without impact carries a 240° C (464° F) RTI rating

*TEFZEL* is a registered trademark of The Chemours Company.

*HALAR* is a registered trademark of Ausimont USA, Inc.

*Tefzel material contains Fluorine, but in accordance to IEC 61249-2-21, which calls out Chlorine and Bromine, but not Fluorine, meets the definition of Halogen-Free.
Panduit offers the most preferred hand-operated tools in the industry. These versatile tools can be used for production, maintenance or construction applications. Panduit cable tie installation tools promote worker safety, help reduce downtime, improve productivity and provide the lowest total installed cost. As with all Panduit products, quality in design and production along with customer service excellence, are assured.

**Cable Tie Tools**

- **GTS-E**
  - Used with SM, M, I, and S cable ties
  - Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer’s hand

- **GS2B-E**
  - Used with SM, M, I, and S cable ties
  - Metal tool with a durable powder coat finish
  - Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer’s hand

- **GTH-E**
  - Used with S, HS, LH, and H cable ties
  - Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer’s hand

- **GS4H-E**
  - Used with S, HS, LH, and H cable ties
  - Metal tool with a durable powder coat finish
  - Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer’s hand

- **GS4EH-E**
  - Used with LH, H, and EH cable ties
  - Metal tool with a durable powder coat finish
  - Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer’s hand

**Pneumatic Hand Tools**

- **PTS**
  - Used with SM, M, I, and S cable ties
  - Ergonomic design with impact resistant resin housing and black knob; replacement parts can be part of a scheduled maintenance program

- **PTH**
  - Used with S, HS, LH, and H cable ties
  - Ergonomic design with impact resistant resin housing and red knob; replacement parts can be part of a scheduled maintenance program

**Pneumatic Tool Accessories**

Visit www.panduit.com for our complete line of pneumatic tool accessories
Complete Your Bundling System

Tools

Manual Cable Tie Installation Tools
- Designed to speed installation for lower installed cost
- Flush tie cut-off limits exposure to sharp edges
- A full line of lightweight, ergonomic hand tools available
- Panduit leads the industry in reliability and performance

Automatic Cable Tie Installation Systems
- An efficient solution for high volume harnessing, assembly, fastening and packaging applications
- High speed tools lower installed cost and reduce operator fatigue
- Wrap, tension, and cut off cable ties in less than one second
- Microprocessor based controller monitors system performance for production data and reporting

Services

Custom Imprinting Service
- Products available for custom imprinting include cable ties, marker plates, marker and flag ties, hook and loop wrap ties
- Results in a professional, high quality appearance for identification and labeling as well as promotional purposes
- Options include company logos, website addresses, sequential numbering, phone numbers, graphics and text

Related Products

Cable Accessories
- Comprehensive line of mounts, clips, and clamps that organizes and routes cables, speeds and simplifies installations, and lowers overall installed cost
- Installation methods include adhesive backed, user applied adhesive, screws, rivets and push barb
- Accessories provide long term reliability while cable clips and clamps offer a one-piece solution to save time and reduce inventory

Stainless Steel Cable Ties
- Durable method of bundling, fastening and permanent identification in applications where severe environmental conditions exist
- Engineered for safety, productivity and durability by providing round edges and smooth surfaces, easy threading, high loop tensile strength and tight clamping

For more information
Visit us at www.panduit.com/cableties
Contact Customer Service by email: cs@panduit.com or by phone: 800-777-3300

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