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

### Comprehensive Cable Tie Solutions

<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>
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<tr>
<td>PLT Pan-Ty® Cable Ties</td>
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<tr>
<td>SG Super-Grip® Cable Ties</td>
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<tr>
<td>DT Dura-Ty® Cable Ties</td>
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<td>CBR Contour-Ty® Cable Ties</td>
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<td>HV Hyper-V™ Cable Ties</td>
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<td>ERT Elastomeric Cable Ties</td>
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### Cable Tie Industry Approvals

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<tr>
<th>Agency</th>
<th>Spec/Approval</th>
<th>Requirement</th>
<th>Products</th>
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<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>
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<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>
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<tr>
<td>ABS (American Bureau of Shipping)</td>
<td>05-HS463235-PDA</td>
<td>2005 Steel Vessel Rules 1-1-4/7.4.8-4/21.9.32001 MODU Rules 4-3-3/5.9.1</td>
<td>PLT and BT Series</td>
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<tr>
<td>Bureau Veritas</td>
<td>Cert 05968/C0, BV File ACE 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, PLM, PRT, PLWP, PRWP and PRST Series</td>
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<tr>
<td>Lloyd’s Register of Shipping</td>
<td>89/60111 (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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<tr>
<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>
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<tr>
<td>Tensile @ Yield @ 73°F (psi)</td>
<td>ISO 527</td>
<td>12,000</td>
<td>12,000</td>
<td>9,700</td>
<td>12,000</td>
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<td>1.2%</td>
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<td>Radiation Resistance (Rads)</td>
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<td>1 x 10⁵</td>
<td>1 x 10⁵</td>
<td>1 x 10⁵</td>
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<td>7 – 9</td>
<td>7 – 9</td>
<td>4 – 5</td>
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<tr>
<td>Tensile @ Yield @ 73°F (psi)</td>
<td>ISO 527</td>
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<td>12,000</td>
<td>9,700</td>
<td>12,000</td>
<td>12,000</td>
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<tr>
<td>Water Absorption (24 Hours)</td>
<td>ASTM D570</td>
<td>1.2%</td>
<td>1.2%</td>
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<td>1.1%</td>
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<tr>
<td>Radiation Resistance (Rads)</td>
<td>1 x 10⁵</td>
<td>1 x 10⁵</td>
<td>1 x 10⁵</td>
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<td>1 x 10⁵</td>
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<tr>
<td>Weathering Life Expectancy (Years)/UV Resistance</td>
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<td>7 – 9</td>
<td>7 – 9</td>
<td>4 – 5</td>
<td>1 – 2</td>
<td>7 – 9</td>
<td>1 – 2</td>
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</tbody>
</table>

### Mechanical Properties

- **Tensile @ Yield @ 73°F (psi)**
  - ISO 527
  - 12,000
  - Weather Resistant: 12,000
  - Impact Modified: 9,700
  - Heat Stabilized: 12,000
  - Heat Stabilized Weather Resistant: 12,000
  - Flame Retardant: 11,000

- **Water Absorption (24 Hours)**
  - ASTM D570
  - 1.2%

- **Radiation Resistance (Rads)**
  - 1 x 10⁵

- **Weathering Life Expectancy (Years)/UV Resistance**
  - 1 – 2

- **Impact Resistance**
  - –

### Chemical Resistance

- **Hydrocarbons (Oil, Lubricants)**
  - –

- **Chlorinated Hydrocarbons**
  - –

- **Acids**
  - –

- **Bases**
  - –

- **Acid Rain**
  - –

### Thermal Properties

- **Continuous Use Temperature Range**
  - UL 746B: -76°F – 185°F
  - Weather Resistant: -76°F – 185°F
  - Impact Modified: -76°F – 185°F
  - Heat Stabilized: -76°F – 239°F
  - Heat Stabilized Weather Resistant: -76°F – 239°F
  - Flame Retardant: -76°F – 239°F

- **Minimum Installation Temperature**
  - UL 62275: -4°F or +32°F

- **Flammability Rating**
  - UL 94: V-2

- **Low Smoke**
  - ASTM E662: PASS

- **Oxygen Index**
  - BS ISO 4589: 28

- **Halogen-Free**
  - IEC 60754-2: Yes

- **Burning Fume Toxicity**
  - BSS-7239: PASS

- **Heat Deflection Temperature @ 1.8 Mpa**
  - ASTM D648: 158°F
  - Weather Resistant: 158°F
  - Impact Modified: 158°F
  - Heat Stabilized: 145°F
  - Heat Stabilized Weather Resistant: 158°F
  - Flame Retardant: 158°F

### Product Family

- **Pan-Ty® Cable Ties**
  - PLT
  - Cross Sections: SM, M, I, S, LH, H, EH
  - Material Availability: 3

- **Super-Grip® Cable Ties**
  - SG
  - Cross Sections: M, I, S, LH
  - Material Availability: 3

- **Dome-Top® Barb Ty Cable Ties**
  - DT
  - Cross Sections: M, I, S
  - Material Availability: 3

- **Hyper-V® Cable Ties**
  - HV
  - Cross Sections: M, I, S, H
  - Material Availability: 3

- **Elastomeric Cable Ties**
  - ERT
  - Cross Sections: M, I, S, H
  - Material Availability: 3

### 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</th>
<th>Weather Resistant</th>
<th>Polypropylene</th>
<th>Weather Resistant</th>
<th>Polypropylene</th>
<th>TEFZEL®</th>
<th>HALAR®</th>
<th>PEEK</th>
<th>Metal Detectable</th>
<th>Nylon</th>
<th>Metal Detectable</th>
<th>Polypropylene</th>
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<td>Nylon 12</td>
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<td>1 – 2</td>
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</table>

- **Note 1:** Check UL file for specific part number rating
- **Note 2:** Based upon UL RTI for electrical properties

*TEFZEL® is a registered trademark of E.I. du Pont de Nemours and Company.
*HALAR® is a registered trademark of Ausimont USA, Inc.
Cable Tie Installation Tools

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

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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CTSG05-SA-ENG
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6/2018