Mechanical Connectors — Quick Reference

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**Tap**
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**Tap**
- See Page C-50

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**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

**www.tnb.com**
For copper-to-copper connections.

**Type H — High Strength Split-Bolt Connectors**

- Bolt and nut of high-strength corrosion-resistant bronze alloy
- Pressure bar is copper through 40H, copper alloy for 350 kcmil and above
- Bolt and nut of hex design up to 350 kcmil
- Tested and Listed to UL486C, UL467 for grounding and for direct burial through Cat. No. 40H

**Type HPS — Plated Split-Bolt Connectors with Spacer**

- Bolt and pressure bar of copper alloy, completely tin plated for corrosion resistance
- Contoured spacer of electrolytic copper up through 4/0, bronze alloy for 350 kcmil and above, all tin plated
- Most connectors are UL Listed and CSA Certified for copper conductor only
- Blackburn Contax® paste recommended when used on aluminum conductor

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### Conductor Range (AWG or KCMIL)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>RANGE FOR EQUAL MAIN AND TAP</th>
<th>MIN. TAP WITH ONE MAX. MAIN</th>
<th>DIMENSIONS (IN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
</tbody>
</table>

**For use on copper, aluminum and ACSR conductors.**

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*UL* and *CSA* Certified.
Split-Bolt Connectors

For combinations of copper, aluminum and ACSR conductors.

**Type HPW — Plated Split-Bolt Connectors with Spacer and Washer**

- Bolt and pressure bar of high-strength copper alloy completely tin plated
- Spacer and washer of electrolytic copper up through 4/0, bronze alloy 350 kcmil and above, all tin plated
- Contoured spacer and bell mouth washer distribute pressure over large area of conductor
- Large contoured spacer provides wide separation between copper and aluminum conductors
- Blackburn Contax® paste recommended when used with aluminum conductor

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>RANGE FOR EQUAL MAIN AND TAP</th>
<th>RANGE FOR EQUAL MAIN AND TAP</th>
<th>MIN. TAP WITH ONE MAX. MAIN</th>
<th>DIMENSIONS (IN.)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>ACSR</td>
<td>COPPER OR ALUMINUM</td>
<td></td>
<td>A</td>
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<tr>
<td>6HPW</td>
<td>8</td>
<td>6 Sol.–12 Sol.</td>
<td>12 Sol.</td>
<td>%</td>
</tr>
<tr>
<td>4HPW</td>
<td>6–8</td>
<td>4 Sol.–12 Sol.</td>
<td>12 Sol.</td>
<td>%</td>
</tr>
<tr>
<td>2HPW</td>
<td>4–8</td>
<td>2 Sol.–8 Sol.</td>
<td>8 Sol.</td>
<td>%</td>
</tr>
<tr>
<td>1HPW</td>
<td>2–8</td>
<td>1 Str.–8 Sol.</td>
<td>8 Sol.</td>
<td>%</td>
</tr>
<tr>
<td>10HPW</td>
<td>1–6</td>
<td>1/0 Str.–6 Sol.</td>
<td>6 Sol.</td>
<td>%</td>
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<tr>
<td>20HPW</td>
<td>1/0–6</td>
<td>2/0 Str.–6 Sol.</td>
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<td>40HPW</td>
<td>4/0–4</td>
<td>4/0 Str.–4 Sol.</td>
<td>4 Sol.</td>
<td>1</td>
</tr>
</tbody>
</table>

**Accommodates all aluminum and copper conductor combinations.**

**Type APS — Aluminum Dual-Rated Split Bolts**

- 6 bolts cover range from #10 to 4/0 AWG
- Install with standard wrenches
- Corrosion-resistant tin-plated aluminum
- Tested and Listed to UL® 486B, 90° C requirements

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONDUCTOR RANGE EQUAL MAIN &amp; TAP</th>
<th>DIMENSIONS (IN.)</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
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<tr>
<td>APS06</td>
<td>6–10 Str.</td>
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<tr>
<td>APS04</td>
<td>4–10 Str.</td>
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</tr>
<tr>
<td>APS02</td>
<td>2–8 Str.</td>
<td>%</td>
</tr>
<tr>
<td>APS11</td>
<td>1/0–4 Str.</td>
<td>%</td>
</tr>
<tr>
<td>APS21</td>
<td>2/0–4 Str.</td>
<td>%</td>
</tr>
<tr>
<td>APS41</td>
<td>4/0–2 Str.</td>
<td>1⁄8</td>
</tr>
<tr>
<td>APS350*</td>
<td>350 kcmil–4 Str.</td>
<td>1⁄4</td>
</tr>
<tr>
<td>APS500*</td>
<td>500 kcmil–2 Str.</td>
<td>1⁄4</td>
</tr>
</tbody>
</table>

* Square head design not CSA certified

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www.tnb.com
For all aluminum applications.

**Type AAW — Aluminum Split-Bolt Connectors with Spacer and Washers**

- Bolt, nut, pressure bar and contoured spacer of aluminum alloy
- Large contoured spacer provides wide separation
- Nut anodized to prevent thread galling
- Blackburn Contax® paste recommended when used on aluminum conductor

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>RANGE FOR EQUAL MAIN AND TAP</th>
<th>RANGE FOR EQUAL MAIN AND TAP</th>
<th>MIN. TAP WITH ONE MAX. MAIN</th>
<th>DIMENSIONS (IN.)</th>
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<tbody>
<tr>
<td>ACSR</td>
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<td>ACSR</td>
<td>ACSR</td>
<td>ACSR.</td>
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<tr>
<td>6AAW</td>
<td>6–8</td>
<td>4 Sol.–8 Sol.</td>
<td>10 Sol.</td>
<td>.236</td>
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<tr>
<td>4AAW</td>
<td>4–8</td>
<td>2 Sol.–8 Sol.</td>
<td>8 Sol.</td>
<td>.272</td>
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<tr>
<td>2AAW</td>
<td>2–8</td>
<td>1 Str.–8 Sol.</td>
<td>8 Sol.</td>
<td>.330</td>
</tr>
<tr>
<td>1AAW</td>
<td>1–4</td>
<td>1/0 Str.–2 Sol.</td>
<td>4 Sol.</td>
<td>.443</td>
</tr>
<tr>
<td>10AAW</td>
<td>1/0–4</td>
<td>2/0 Str.–2 Sol.</td>
<td>4 Sol.</td>
<td>.443</td>
</tr>
<tr>
<td>40AAW</td>
<td>4/0–4</td>
<td>4/0 Str.–4 Sol.</td>
<td>4 Sol.</td>
<td>.580</td>
</tr>
</tbody>
</table>

Contoured spacer and bell-mouth washer distribute pressure over large area of conductor.

**Type CA — Aluminum Split-Bolt Connectors with Spacer and Washer**

- Bolt, nut and washer made of high-strength aluminum alloy
- Pressure bar and contoured spacer made of electrolytic copper
- Spacer is completely tin plated
- Bolt and nut are anodized to prevent seizing of threads and reduce galvanic corrosion when in contact with copper conductor
- Blackburn Contax® paste recommended with this connector

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>RANGE FOR EQUAL MAIN AND TAP</th>
<th>RANGE FOR EQUAL MAIN AND TAP</th>
<th>MIN. TAP WITH ONE MAX. MAIN</th>
<th>DIMENSIONS (IN.)</th>
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</thead>
<tbody>
<tr>
<td>ACSR</td>
<td>ACSR</td>
<td>ACSR</td>
<td>ACSR</td>
<td>ACSR.</td>
</tr>
<tr>
<td>6CA</td>
<td>4 Sol.–6 Sol.</td>
<td>4 Sol.–12 Sol.</td>
<td>%</td>
<td>.236</td>
</tr>
<tr>
<td>4CA</td>
<td>2 Sol.–4 Sol.</td>
<td>2 Sol.–10 Sol.</td>
<td>%</td>
<td>.272</td>
</tr>
<tr>
<td>2CA</td>
<td>1 Str.–4 Sol.</td>
<td>1 Str.–8 Sol.</td>
<td>%</td>
<td>.330</td>
</tr>
<tr>
<td>1CA</td>
<td>1/0 Str.–2 Sol.</td>
<td>1/0 Str.–6 Sol.</td>
<td>%</td>
<td>.443</td>
</tr>
<tr>
<td>10CA</td>
<td>2/0 Str.–2 Sol.</td>
<td>2/0 Str.–6 Sol.</td>
<td>%</td>
<td>.443</td>
</tr>
<tr>
<td>40CA</td>
<td>4/0 Str.–2/0 Sol.</td>
<td>4/0 Str.–4 Sol.</td>
<td>1</td>
<td>.580</td>
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