BUS CONNECTORS

- Aluminum or Copper material
- Includes pre-applied anti-oxidant compound
- Standard & custom pad sizes & angles available
- Machined to exact specifications from 1”-6”
- External fittings work with 40, 60, 80 & 120 schedules
- Non-standard and metric sizes available

FASTER, MORE RELIABLE BUS INSTALLATIONS

If installation speed, quality, safety and total project cost is important on your jobsite, stop welding and start Swaging.

Extensive comparative testing shows the DMC Power Swaging system outperforms welded and bolted counterparts in all major tests. Each Swaged Bus connector results in a superior mechanical, thermal and electrical connection for your substation needs.

Qualified to meet or exceed all the nationally recognized standards, including ANSI C119.4 and NEMA CC1, the DMC Power system raises the quality, safety and productivity standard on your site, rendering conventional methods obsolete.

Putting DMC Power to the Test
(typical results for 2” bus fittings)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corona/RIV</td>
<td>Qualified for up to 765kV substations*</td>
</tr>
<tr>
<td>Fault Current</td>
<td>45kA</td>
</tr>
<tr>
<td>Current Cycle</td>
<td>500 cycles air, 100 cycles water</td>
</tr>
<tr>
<td>Bending</td>
<td>13,000 lbs. load</td>
</tr>
<tr>
<td>Vibration</td>
<td>2hz to 125hz, over 1 million cycles</td>
</tr>
<tr>
<td>Tensile</td>
<td>Over 17,000 lbs.</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>1,000 hours per ASTM B117-90</td>
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</tbody>
</table>

* Some parts may require additional shielding

THE PROOF IS IN THE TESTING

Swaged connections carry a greater tensile load for a longer amount of time versus welding.

Typical Test Graph for Welded Connector Failure

Typical Test Graph for DMC Power Swaged Connector

**PLK1000**
SPlice

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Size</th>
<th>Weight</th>
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<tbody>
<tr>
<td>230kV</td>
<td>1&quot;-2½&quot;</td>
<td>~4 lbs</td>
</tr>
<tr>
<td>500kV</td>
<td>3&quot;-4&quot;</td>
<td>~5 lbs</td>
</tr>
<tr>
<td>765kV</td>
<td>5&quot;-6&quot;</td>
<td>~7 lbs</td>
</tr>
</tbody>
</table>

**ORDERING EXAMPLE**
PLK1000D16
1" Aluminum Splice

---

**PLK1010**
SPlice reDucer

<table>
<thead>
<tr>
<th>Voltage</th>
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<th>Weight</th>
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<tbody>
<tr>
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<td>2½-4&quot;</td>
<td>~6 lbs</td>
</tr>
<tr>
<td>500kV</td>
<td>5&quot;-6&quot;</td>
<td>~8 lbs</td>
</tr>
<tr>
<td>765kV</td>
<td>7&quot;-8&quot;</td>
<td>~10 lbs</td>
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</table>

**ORDERING EXAMPLE**
PLK1010D24 64
2-½" to 4" Aluminum Splice Reducer

---

**PLK1160**
Ground Stud Assembly

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>230kV</td>
<td>1&quot;-6&quot;</td>
<td>~4 lbs</td>
</tr>
</tbody>
</table>

**ORDERING EXAMPLE**
PLK1160D48
3" Aluminum Splice with Ground Stud

---

**PLK3160**
EHV Ground Stud with Ball

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<thead>
<tr>
<th>Voltage</th>
<th>Size</th>
<th>Diameter</th>
<th>Weight</th>
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<tbody>
<tr>
<td>500kV</td>
<td>5&quot;-6&quot;</td>
<td>~6 lbs</td>
<td>~6 lbs</td>
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**ORDERING EXAMPLE**
PLK3160D64 12
4" Aluminum EHV Splice with 500kV, 12" Ball Ground Stud

---

**PLK1161**
Ground Stirrup

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>230kV</td>
<td>1&quot;-6&quot;</td>
<td>~7 lbs</td>
</tr>
</tbody>
</table>

**ORDERING EXAMPLE**
PLK1161D80
5" Aluminum Splice with Ground Stirrup

---

**PLK1165**
Dual Ground Stud Assembly

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>230kV</td>
<td>1½&quot;-6&quot;</td>
<td>~6 lbs</td>
</tr>
</tbody>
</table>

**ORDERING EXAMPLE**
PLK1165D24
1-½" Aluminum Splice with Dual Ground Studs

---

**SPLIT FITTINGS FOR EASY INSTALLATION**

Many of our connectors can be made with a split main run, making it easy to tap onto existing Bus structures. Simply place one half of the fitting over the Bus bar and slide the other half into the interlocking grooves. The two halves are now surrounding the Bus bar and can be securely Swaged on each end in seconds.

Look for this icon and the corresponding base part number on our most popular split fitting connectors, or just replace the first digit (PLK1###) with a 5 (PLK5###) for your new split fitting part number.
PLK1350  END CAP

230kV  ~3 lbs

ORDERING EXAMPLE
PLK1350D48
3" Aluminum End Cap

PLK1360  ROUNDED END CAP

230kV  ~4 lbs

ORDERING EXAMPLE
PLK1360D32
2" Aluminum Rounded End Cap

PLK3361  EHV BALL-STYLE END CAP

500kV  ~4½ lbs

ORDERING EXAMPLE
PLK3361D64
4" Aluminum EHV End Cap with 500kV, 12" Ball

PLK3400  EHV ELBOW WITH CORONA RING

500kV  ~11 lbs

ORDERING EXAMPLE
PLK3400D80E3
5" Aluminum EHV Elbow with Corona Ring at 60° Angle

PLK1400  ELBOW

230kV  ~5 lbs

ORDERING EXAMPLE
PLK1400D32E1
2" Aluminum Elbow at 30° Angle

PLK3401  EHV LARGE RADIUS ELBOW

500kV  ~14 lbs

ORDERING EXAMPLE
PLK3401D64E4
4" Aluminum EHV Large Radius Elbow at 90° Angle

PLK1600  A-FRAME

230kV
500kV
765kV

ORDERING EXAMPLE
PLK1600D48 64
4" Aluminum A-Frame with Two, 3" Taps at standard 30° Angle

PLK1500  TEE

230kV
500kV
765kV

ORDERING EXAMPLE
PLK1500D 16 40 62
Aluminum Bus Tee connecting 1" Tap to 2-1/2" Run at 15° Angle
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Pad Size</th>
<th>Ball Diameter</th>
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<tbody>
<tr>
<td>PLK1100</td>
<td>4-HOLE LONGITUDINAL PAD TEE</td>
<td>230kV-500kV</td>
<td>3&quot;-3&quot;</td>
</tr>
<tr>
<td>PLK1150</td>
<td>4-HOLE 90° TRANSVERSE PAD TEE</td>
<td>230kV-345kV</td>
<td>2&quot;-3&quot;</td>
</tr>
<tr>
<td>PLK1200</td>
<td>2-HOLE LONGITUDINAL PAD TEE</td>
<td>230kV-500kV</td>
<td>3&quot;-3&quot;</td>
</tr>
<tr>
<td>PLK1106</td>
<td>6-HOLE LONGITUDINAL PAD TEE</td>
<td>230kV-500kV</td>
<td>3&quot;-3&quot;</td>
</tr>
<tr>
<td>PLK1120</td>
<td>DUAL 4-HOLE LONGITUDINAL PAD TEE</td>
<td>230kV-500kV</td>
<td>3&quot;-3&quot;</td>
</tr>
<tr>
<td>PLK1170</td>
<td>DUAL 4-HOLE 90° TRANSVERSE PAD TEE</td>
<td>230kV-345kV</td>
<td>2&quot;-3&quot;</td>
</tr>
<tr>
<td>PLK1250</td>
<td>2-HOLE 90° TRANSVERSE PAD TEE</td>
<td>230kV-500kV</td>
<td>3&quot;-3&quot;</td>
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<tr>
<td>PLK1156</td>
<td>6-HOLE 90° TRANSVERSE PAD TEE</td>
<td>230kV-345kV</td>
<td>3&quot;-3&quot;</td>
</tr>
</tbody>
</table>

**Ordering Example**

- **PLK1100D32E1** 2" Aluminum Tee with 4"x5", 4-Hole Longitudinal Pad
- **PLK1150D1E3** 2" Aluminum Tee with 3"x7", 4-Hole 90° Transverse Pad
- **PLK1200D32E1** 2" Aluminum Tee with 2"x5", 2-Hole Longitudinal Pad
- **PLK1106D48E1** 5" Aluminum Tee with 5"x3", 6-Hole Longitudinal Pad
- **PLK1120D48E1** 3" Aluminum Tee with Two, 4"x5", 4-Hole Longitudinal Pads
- **PLK1170D80L2E3** 5" Aluminum Tee with Two, 4"x7", 4-Hole 90° Transverse Pads
- **PLK11106D48E1** 5" Aluminum Tee with 6"x5", 6-Hole 90° Transverse Pad
PLK1850
4-HOLE CENTER FORMED PAD TERMINAL

- 345kV
- 500kV
- 3¾" Pad
- 3/4" Hole
- 4 lbs

ORDERING EXAMPLE
PLK1850D80 B
5" Aluminum Terminal with 4", 4-Hole Center Formed Pad

PLK1880
4-HOLE OFFSET PAD TERMINAL

- 345kV
- 500kV
- 3¾" Pad
- 3/4" Hole
- 4 lbs

ORDERING EXAMPLE
PLK1880D24 A
1-1/2" Aluminum Terminal with 3", 4-Hole Offset Pad

ANGLED PAD OPTIONS:

Copper, 3" pad, EHV and custom angles are available. Visit the product page on DMCPower.com for details.

PLK1863
4-HOLE 30° ANGLED PAD

PLK1860
4-HOLE 45° ANGLED PAD

PLK1866
4-HOLE 60° ANGLED PAD

PLK1870
4-HOLE 90° ANGLED PAD

ANY CONNECTOR. ANY ANGLE.

Of course we have standard 15°, 30°, 45°, 60°, 75° & 90° angled parts, but what happens when something doesn’t match up exactly as designed, shifts over time or needs to be cut out and replaced?

Because we can custom make each individual connector to your exact specifications, any standard or custom angle combination is possible.

This icon indicates we have numerous options ready to be machined for the part listed, just call 888-SWAGE-NOW with your specs and let DMC Power take care of the rest.

90° Angle 75° Angle 60° Angle 45° Angle Custom Angles
**PLK1855**
2-HOLE CENTER FORMED PAD TERMINAL

230kV
2" Pads
3" Height
~3 lbs

**ORDERING EXAMPLE**
PLK1855D64
4" Aluminum Terminal with 2", 2-Hole Center Formed Pad

**PLK1865**
2-HOLE 45° PAD TERMINAL

230kV
2" Pads
3" Height
~3 lbs

**ORDERING EXAMPLE**
PLK1865D32
2" Aluminum Terminal with 2", 2-Hole 45° Pad

**PLK1875**
2-HOLE 90° PAD TERMINAL

230kV
2" Pads
3" Height
~3 lbs

**ORDERING EXAMPLE**
PLK1875D16
1" Aluminum Terminal with 2", 2-Hole 90° Pad

**PLK1886**
6-HOLE OFFSET PAD TERMINAL

230kV
500kV
5/6" Pads
5/6" Height
~8 lbs

**ORDERING EXAMPLE**
PLK1886D80
5" Aluminum Terminal with 6", 6-Hole Offset Pad

**PLK1885**
2-HOLE OFFSET PAD TERMINAL

230kV
2" Pads
3" Height
~3 lbs

**ORDERING EXAMPLE**
PLK1885D24
1-1/2" Aluminum Terminal with 2", 2-Hole Offset Pad

**PLK1856**
6-HOLE CENTER FORMED PAD TERMINAL

230kV
500kV
5/6" Pads
5/6" Height
~7 lbs

**ORDERING EXAMPLE**
PLK1856D96A
6" Aluminum Terminal with 6", 6-Hole Center Formed Pad

---

**NEXT GENERATION ENGINEERING**

From computer simulations and tensile testing to delivering the final AUTOCAD Drawing and Connectors, DMC Power’s in-house engineering and R&D team can design, test and deliver any connector faster than anyone. Contact your local Territory Manager to get your custom project started today.

www.dmcpower.com
PLK2210
SLIP/RIGID FIT SWAGED BUS SUPPORT
- 345kV
- 10 lbs

ORDERING EXAMPLE
PLK2210D40 E12
2-1/2" Slip/Rigid Bus Support with 3" & 5" Bolt Circles

PLK22200
SLIP FIT BUS SUPPORT
- 345kV
- 5 lbs

ORDERING EXAMPLE
PLK2200D56 E3
2-1/2" Slip Fit Bus Support with 7" Bolt Circle

PLK2230
SLIP/RIGID FIT BUS SUPPORT
- 230kV
- 7 lbs

ORDERING EXAMPLE
PLK2230D32 E12
2" Slip/Rigid Bus Support with 3" & 5" Bolt Circles

PLK3210
EHV SLIP/RIGID FIT SWAGED BUS SUPPORT
- 500kV
- 10 lbs

ORDERING EXAMPLE
PLK3210D80 E23
5" Slip/Rigid EHV Bus Support with 5" & 7" Bolt Circles

PLK32200
EHV SLIP FIT BUS SUPPORT
- 500kV
- 6 lbs

ORDERING EXAMPLE
PLK32200D48 E12
3" Slip Fit EHV Bus Support with 3" & 5" Bolt Circles

PLK3230
EHV SLIP/RIGID FIT BUS SUPPORT
- 500kV
- 6 lbs

ORDERING EXAMPLE
PLK3230D96 E23
6" Slip/Rigid EHV Bus Support with 5" & 7" Bolt Circles

PLK2230 / PLK3230 Bus Support Features

**Slip Fit**
- Loose fit that allows the bus to slide and expand.

**Rigid Fit**
- Tightly bolted connection that completely eliminates Bus movement.

**Static Spring**
- Used during Slip Fit applications to prevent arcing & reduce Bus chatter.

**Recessed Bolts**
- Allows for one handed, Hex Wrench installation.
**PLK2600**
BUS TO PAD EXPANSION

- Voltage: 230kV
- Pad Width: 2” – 6”
- Weight: ~17 lbs

**ORDERING EXAMPLE**
PLK2600D80 E3
5" Bus Expansion to 5", 4-Hole Pad

---

**PLK2810**
BUS TO BUS EXPANSION

- Voltage: 230kV
- Pad Width: 1” – 6”
- Weight: ~18 lbs

**ORDERING EXAMPLE**
PLK2810D16
1" Bus to Bus Expansion

---

**PLK2700**
EXPANSION SUPPORT

- Voltage: 230kV
- Pad Width: 1” – 6”
- Weight: ~23 lbs

**ORDERING EXAMPLE**
PLK2700D64 E12
4" Bus to Bus Expansion Support with 5" & 5" Bolt Circles

---

**PLK3600**
EHV BUS TO PAD EXPANSION

- Voltage: 500kV
- Pad Width: 3” – 6”
- Weight: ~31 lbs

**ORDERING EXAMPLE**
PLK3600D56 E2
3-1/2" EHV Bus Expansion to 3", 4-Hole Pad

---

**PLK3810**
EHV BUS TO BUS EXPANSION

- Voltage: 500kV
- Pad Width: 3” – 6”
- Weight: ~36 lbs

**ORDERING EXAMPLE**
PLK3810D80
5" EHV Bus to Bus Expansion

---

**PLK2602**
CONDENSED BUS TO PAD EXPANSION

- Voltage: 230kV
- Pad Width: 2” – 5”
- Weight: ~13 lbs

**ORDERING EXAMPLE**
PLK2602D32 E2
2" Condensed Bus Expansion to 3", 4-Hole Pad

---

**PLK2700**
EXPANSION SUPPORT

- Voltage: 230kV
- Pad Width: 1” – 6”
- Weight: ~34 lbs

**ORDERING EXAMPLE**
PLK2700D80 E23
5" EHV Bus to Bus Expansion Support with 5" & 7" Bolt Circle
SETTING DIMENSIONS FOR EXPANSION JOINTS

DMC Power Bus Expansions are designed to expand/contract up to 4.42" through a 315°F temperature range.

The "G" Dimension Movement in the chart below shows the movement range and installation point at a particular temperature. These are based on the assumption that the total length between rigid supports is 90 feet or less.

For more Bus Expansion information, call 888-SWAGE-NOW.

<table>
<thead>
<tr>
<th>Bus Temp. [°F]</th>
<th>Movement from Median</th>
<th>Bus Expansion Supports</th>
<th>Condensed Expansion</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>PLK2700DxxE12</td>
<td>PLK2600, PLK2601, PLK2701, PLK2810, PLK3600, PLK3601, PLK3810, PLK3701, PLK3810</td>
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<tr>
<td>-65</td>
<td>-2.211</td>
<td>16.901</td>
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<td>-2.001</td>
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92.5 | 0 | 14.690 | 16.130 | 18.130 | 11.500 | 2.250 | Median |
**BUS CONNECTOR ORDERING NOMENCLATURE**

**PLKXXX**

1. **BASE CONNECTOR STYLE** (PLK=Standard; CPL=Copper)
2. **MATERIAL CODE** (D=Aluminum; B=Copper)
3. **BUS RUN SIZE** (Use chart below)
4. **OPTIONS** (Second Bus, Angle, Bolt Circle Pattern or NEMA Pad Sizes)

**STANDARD BUS SIZES**

- **DMC Size**
- **Bus Size**
- **Fitting O.D.**
- **D Min.**
- **D Max**

<table>
<thead>
<tr>
<th>DMC Size</th>
<th>Bus Size</th>
<th>Fitting O.D.</th>
<th>D Min.</th>
<th>D Max</th>
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<tr>
<td>96</td>
<td>6&quot;</td>
<td>8.00</td>
<td>6.00</td>
<td>6.75</td>
</tr>
</tbody>
</table>

**SILICONE SEAL**
Seals out moisture

**ANTIOXIDANT COMPOUND**
Minimizes oxidation

**SWAGE ALIGNMENT LINE**
Used for aligning compression tool; second swage line added for 5" & 6" connectors

**MARKING**
Includes DMC Power part number and Swage tool die number

**STANDARD BOLT CIRCLE DIMENSIONS**

<table>
<thead>
<tr>
<th>Suffix</th>
<th>Circle Radius</th>
<th>Hole Size (6 holes/circle)</th>
<th>Plate Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>3&quot;</td>
<td>9/16&quot; x 13/16&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>E2</td>
<td>5&quot;</td>
<td>11/16&quot; x 1-1/16&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>E3</td>
<td>7&quot;</td>
<td>13/16&quot; x 1-1/2&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>E12</td>
<td>3&quot;</td>
<td>9/16&quot; x 13/16&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>E12</td>
<td>5&quot;</td>
<td>11/16&quot; x 1-1/16&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>E23</td>
<td>5&quot;</td>
<td>11/16&quot; x 1-1/16&quot;</td>
<td>3/4&quot;</td>
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<tr>
<td>E123</td>
<td>3&quot;</td>
<td>9/16&quot; x 13/16&quot;</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

**STANDARD NEMA PAD DIMENSIONS**

*Pad length, width and thickness varies with the part. Special sizes may be custom ordered.*