State-of-the-Art Radial Swage Technology

Customers around the world trust DMC Power’s patented Swaging system to keep their Transmission and Distribution connections tight and provide peace of mind they just can’t get with other methods. Once you experience the time savings and all-weather capabilities of our cutting edge design, you’ll never go back to your old way of installing electrical cable connections again.

DMC Power Cable Connector Advantages

■ **SAVE TIME**
  Use just one 360° radial compression Swage instead of multiple crimps.

■ **ACHIEVE COMPLETE 360° CONTACT**
  Swaging eliminates voids and maximizes conductivity by compressing the interior of the fitting around the exterior of the cable.

■ **FINISHED PADS**
  Both sides of the pad can be used equally as a connection surface.

■ **TIN PLATING**
  Available on all configurations for dissimilar metals and to deter theft on copper equipment applications.

■ **SIMPLE ONE-STEP INSPECTION**
  Easily inspect and measure your Swage anytime with the handheld “Go/No-Go” Inspection Gauge.

■ **CUSTOM SOLUTIONS AVAILABLE**
  A wide range of cable fitting sizes, types and configurations are available for any type of job. But for those times you need a quick, custom solution, DMC Power is here to help. Our ISO9001:2008 Certified Facilities and NADCAP approved labs mean our in-house team can engineer, test and manufacture the custom parts you need to get the job done, all under one roof.

DMC Power’s cable connectors are available in a variety of configurations and sizes to handle any substation job.

Our lightweight Swage Tool can connect cables in even the most hard to reach places.

DMC Power’s cable connectors are qualified to meet or exceed all of the nationally recognized standards, including **ANSI C119.4, NEMA CC 1** and **ASTM B117**.

DMC Power provides you with a superior cable connection, as proven by various tests that were conducted.

CABLE CONNECTOR QUALIFICATIONS

<table>
<thead>
<tr>
<th>Tensile</th>
<th>Maximum 53% of conductor strength, Minimum 30% of conductor strength; 5% is required for Class 3 connectors per <strong>ANSI C119.4</strong> with just 1 Swage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt Fog</td>
<td>1,000 hours per <strong>ASTM B117</strong></td>
</tr>
<tr>
<td>Current Cycle</td>
<td>500 cycles (Class A) per <strong>ANSI C119.4</strong>; met all thermal and resistance requirements</td>
</tr>
</tbody>
</table>
Special Aluminum Compression Connectors

Standard Aluminum Compression Connectors

Special Aluminum Compression Connectors - Ordering Information & Instructions

Bus Sizes

Follow these steps to complete the part number nomenclature shown to the left. To choose the identifier number for the Tap and Main, please refer to the Cable Connector Size Selection Table.

1- Choose the 5 digit connector configuration number beginning with "CL" above.
2- Add the material code "D" for Aluminum.
3- Use the Cable Connector Size Selection Table to select the identifier number for BUS TUBING or CABLE MAIN RUN. Tube identifier is 2 digits long; Cable identifier is 5 digits long.
4- Add the identifier number for the size and type of cable conductor for the TAP. Refer to the Cable Connector Size Selection Table.
5- Add the suffix for the connector finish - "S" for bare aluminum, or "T" for tin plated for use with copper cable applications.

EXAMPLE: CL400D64-11130S is a Terminal going from 4" bus tubing to 1113 MCM AAC cable.

888-Swage-Now

standard Cable Connectors
Thickness of NEMA Pads

Standard NEMA Pad Configurations

Diagrams below are standard dimensions but customization is available for all parts, contact DMC Power for details. Pad thickness is dependent on Cable size.

CPLK9202
TERMINAL
2 HOLE, OFFSET
Identifier Numbers: 00006-25000

CPLK9204
TERMINAL
2 HOLE, 45° ANGLE
Identifier Numbers: 00006-25000

CPLK9205
TERMINAL
2 HOLE, 15° ANGLE
Identifier Numbers: 00006-25000

CPLK9209
TERMINAL
2 HOLE, 90° ANGLE
Identifier Numbers: 00006-25000

CPLK9432
TERMINAL, 3" WIDE
4 HOLE, OFFSET
Identifier Numbers: 00006-25000

CPLK9434
TERMINAL, 3" WIDE
4 HOLE, 45° ANGLE
Identifier Numbers: 00006-25000

CPLK9435
TERMINAL, 3" WIDE
4 HOLE, 15° ANGLE
Identifier Numbers: 00006-25000

CPLK9439
TERMINAL, 3" WIDE
4 HOLE, 90° ANGLE
Identifier Numbers: 00006-25000
Now Available: SPLIT FITTINGS

For many of our parts we now offer the “split fitting” option, where the main run is separable, making it easy to tap into existing cable lines.
To ensure a proper connection, the DMC Power Cable connector must be placed within the tool so that the swage dies are positioned between the "swage lines". The Inspection Hole allows you to verify that the cable is bottomed out in the connector before making the swage.

DMC Power cable connectors come pre-filled with an anti-oxidant compound to create a superior contact surface. The Cable tool uses a 10,000 psi hydraulic pump. Pump comes with hydraulic hose and carrying case.

DMC Power installation tooling is available for purchase, rent or lease.

Follow these steps to complete the part number nomenclature shown to the left. To choose the identifier number, please refer to the Cable Connector Size Selection Table.

1. Choose the 8 digit connector configuration number beginning with "CLPK".
2. Add the material code "D" for Aluminum.
3. Select the proper identifier number that represents the size and type of cable conductor from the Cable Connector Size Selection Table.
4. Add the suffix for the connector finish - "S" for bare aluminum, or "T" for tin plated for use with copper cable and equipment applications.

EXAMPLE:

CPLK9632 TERMINAL, 3" WIDE
4 HOLE, 2 CABLES OFFSET
Identifier Numbers 00006-25000

CPLK9633 TERMINAL, 3" WIDE
4 HOLE, 2 CABLES 30° ANGLE
Identifier Numbers 00006-25000

CPLK9634 TERMINAL, 3" WIDE
4 HOLE, 2 CABLES 45° ANGLE
Identifier Numbers 00006-25000

CPLK9639 TERMINAL, 3" WIDE
4 HOLE, 2 CABLES 90° ANGLE
Identifier Numbers 00006-25000

CPLK9642 TERMINAL, 4" WIDE
4 HOLE, 2 CABLES OFFSET
Identifier Numbers 00006-25000

CPLK9644 TERMINAL, 4" WIDE
4 HOLE, 2 CABLES 45° ANGLE
Identifier Numbers 00006-25000

CPLK9649 TERMINAL, 4" WIDE
4 HOLE, 2 CABLES OFFSET, 90° ANGLE
Identifier Numbers 00006-25000

CPLK9652 TERMINAL, 5" WIDE
6 HOLE, 2 CABLES OFFSET
Identifier Numbers 00006-25000

CPLK9669 TERMINAL, 6" WIDE
6 HOLE, 2 CABLES OFFSET, 90° ANGLE
Identifier Numbers 00006-25000

CPLK9672 TERMINAL, 6" WIDE
6 HOLE, 3 CABLES OFFSET
Identifier Numbers 00006-25000

CPLK9674 TERMINAL, 6" WIDE
6 HOLE, 3 CABLES OFFSET, 45° ANGLE
Identifier Numbers 00006-25000
### CL400
#### TERMINAL
(Bus Tubing to Cable)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL400064-2500S

### CL409
#### TERMINAL, 90°
(Bus Tubing with Capped End to Cable Tap)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL409066-14300S

### CL404
#### TERMINAL, 45°
(Bus Tubing to Cable)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL404068-11100S

### CL419
#### TERMINAL, 90°
(Bus Tubing to 2 Transverse Cable Taps)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL419064-25000S

### CL420
#### TERMINAL
(Bus Tubing to 2 Cable Taps)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL420060-25000S

### CL429
#### TERMINAL, 90°
(Bus Tubing with Capped End to 2 Tandem Cable Taps)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL429068-10300S

---

**Follow these steps to complete the part number nomenclature shown to the left. To choose the identifier number, please refer to the Cable Connector Size Selection Table.**

1. Choose the 8 digit connector configuration number beginning with "CLPK".
2. Add the material code "D" for Aluminum.
3. Select the proper identifier number that represents the size and type of cable conductor from the Cable Connector Size Selection Table.
4. Add the suffix for the connector finish - "S" for bare aluminum, or "T" for tin plated for use with copper cable and equipment applications.

**EXAMPLE:**
CLPK9209D00006S is a 2 Hole Terminal with a 90° angle made from Aluminum with a .500 O.D. barrel, for Size 6 AWG, 7 Strands AAC Cable with a Bare Aluminum Finish.
**SPECIAL CABLE CONNECTORS**

**CL430**

**STRAIGHT TEE REDUCER**
(Bus Tubing Main Run to Cable Tap)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL430-4C-5500E

---

**CL451**

**SPLIT CABLE SUPPORT WITH 3", 5", or 7" BOLT CIRCLE**

Sizes Available:
- CABLE BARREL: Identifier Numbers 00006 - 25000
- BOLT CIRCLE: Identifier Numbers 00006 - 25000

Example: CL451D15900E25

---

**CL432**

**STRAIGHT TEE REDUCER**
(Bus Tubing Main Run to 2 Cable Taps)

Sizes Available:
- MAIN/RUN: Bus Tubing Sizes 16 - 96
- TAP: Identifier Numbers 00006 - 25000

Example: CL432D-28500

---

**CL451 Part Number Nomenclature**

- **D**: Basic Part Number
- **XXXX**: Material Code
  - "X" = ALUMINUM
  - "E" = EARE ALUMINUM
  - "T" = TIN PLATED
- **EX**: BOLT CIRCLE
  - "E1" = 3" BOLT CIRCLE
  - "E2" = 5" BOLT CIRCLE
  - "E3" = 7" BOLT CIRCLE
- **X**: IDENTIFIER NUMBER

---

**CL714**

**SPLIT SPACER TAP, 2 SPLIT CABLE RUNS TO 4 HOLE, 4" PERPENDICULAR PAD**

Sizes Available:
- CABLE BARREL: Identifier Numbers 00006 - 25000
- ID: 3" on standard round tubing; add 6-10s for 6" or 8" outside diameter pipes; add 10s for 8" outside diameter pipes.

Example: CL714-18200-185

---

**CL720**

**SPICE**
(Cable to Cable)

Sizes Available:
- Identifier Numbers 00006 - 25000

Example: CL720-00006-185
### BUS SIZES

<table>
<thead>
<tr>
<th>DMC SIZE</th>
<th>PIPE SIZE</th>
<th>FITTING O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>1&quot;</td>
<td>2.000</td>
</tr>
<tr>
<td>24</td>
<td>1-1/2&quot;</td>
<td>2.500</td>
</tr>
<tr>
<td>32</td>
<td>2&quot;</td>
<td>3.000</td>
</tr>
<tr>
<td>40</td>
<td>2-1/2&quot;</td>
<td>3.750</td>
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<tr>
<td>48</td>
<td>3&quot;</td>
<td>4.375</td>
</tr>
<tr>
<td>56</td>
<td>3-1/2&quot;</td>
<td>5.000</td>
</tr>
<tr>
<td>64</td>
<td>4&quot;</td>
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<tr>
<td>80</td>
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<td>6.500</td>
</tr>
<tr>
<td>96</td>
<td>6&quot;</td>
<td>8.000</td>
</tr>
</tbody>
</table>

### ORDERING INFORMATION - CABLE CONNECTORS

1. **BASIC PART NUMBER** (CPLK=Standard; CL=Special; CBLR=Ropelay; CCL=Copper; DPFT=Full Tension)

2. **MATERIAL CODE** (D=Aluminum; B=Copper)

3. **CONNECTOR IDENTIFIER NUMBER** (Required for Special Cable Connectors ONLY)

4. **SECOND CONNECTOR IDENTIFIER NUMBER**

5. **CONNECTOR FINISH** (S=Bare Aluminum; T=Tin Plated)

**STANDARD EXAMPLE:**

- CPLK9209 D 00006 S
  - 2 Hole Terminal with 90° Angle
  - Size 6, 6/1 ACSR cable
  - Bare Aluminum Finish

**BUS TO CABLE EXAMPLE:**

- CL400 D 64 – 11130 T
  - Bus to Cable Terminal
  - 4" Bus
  - 1113, 61/1w Strand AAC cable
  - Tin Plated Finish

**EXAMPLE:**

- CPLK9209 D 00006 S
  - Basic Part Number
  - Material Code: D (Aluminum)
  - Connector Identifier Number
  - Connector Finish: S (Bare Aluminum)

**EXAMPLE:**

- CL400 D 64 – 11130 T
  - Cable to Bus Terminal
  - Size: 64
  - Fitting: 11130
  - Finish: T (Tin Plated)
<table>
<thead>
<tr>
<th>SIZE</th>
<th>STR (Al/St)</th>
<th>Code Word</th>
<th>SIZE</th>
<th>STR (# Wires)</th>
<th>Code Word</th>
<th>Connector Identifier Number</th>
<th>Swage Tool Head Assembly</th>
<th>O.D.</th>
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<tbody>
<tr>
<td>#6</td>
<td>7/w</td>
<td>Peachbell</td>
<td>#6</td>
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<td>Turkey</td>
<td>00006</td>
<td>DLT45CLHA00004</td>
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<td>7/w</td>
<td>Rose</td>
<td>#5</td>
<td>6/1</td>
<td>Thrush</td>
<td>00004</td>
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<td></td>
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<td>7/w</td>
<td>Iris</td>
<td>#4</td>
<td>6/1</td>
<td>Swan</td>
<td>00002</td>
<td>DLT45CLHA00010</td>
<td>0.750</td>
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<tr>
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<td>7/w</td>
<td>Pansey</td>
<td>#2</td>
<td>6/1</td>
<td>Sparrow</td>
<td>00001</td>
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<td>7/w</td>
<td>Poppy</td>
<td>#1</td>
<td>6/1</td>
<td>Robin</td>
<td>00000</td>
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<td></td>
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<td>2/o</td>
<td>7/w</td>
<td>Aster</td>
<td>1/o</td>
<td>6/1</td>
<td>Raven</td>
<td>00002</td>
<td>DLT45CLHA02500</td>
<td>1.000</td>
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<td>7/w</td>
<td>Phlox</td>
<td>2/o</td>
<td>6/1</td>
<td>Quail</td>
<td>00003</td>
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<td></td>
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<td>7/w</td>
<td>Oxlip</td>
<td>3/o</td>
<td>6/1</td>
<td>Pigeon</td>
<td>00004</td>
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<tr>
<td>250.0</td>
<td>7/w</td>
<td>Sneezewort</td>
<td>4/o</td>
<td>6/1</td>
<td>Penguin</td>
<td>02500</td>
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<tr>
<td>266.8</td>
<td>7/w</td>
<td>Daisy</td>
<td>266.8</td>
<td>18/1</td>
<td>Waxwing</td>
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<td>Merlin</td>
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<td>Canna</td>
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<td>Oriole</td>
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<td>Ibis</td>
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<td>Hawk</td>
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<td>Dove</td>
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<td>Violet</td>
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<td>24/7</td>
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<td>Squab</td>
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<td>Coot</td>
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<td>874.5</td>
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<td>Anemone</td>
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<td>Tern</td>
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<td>36/1</td>
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### CABLE CONNECTOR SIZE SELECTION CHART

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<tr>
<th>AAC</th>
<th>ACSR</th>
<th>Conector Identifier Number</th>
<th>Connector Head Assembly O.D.</th>
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<tbody>
<tr>
<td>900.0</td>
<td>37/w Cockscomb</td>
<td>795.0</td>
<td>24/7 Cuckoo</td>
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<tr>
<td>61/w Snapdragon</td>
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<td>54/7 Condor</td>
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<tr>
<td>26/7 Drake</td>
<td></td>
<td></td>
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<tr>
<td>954.0</td>
<td>37/w Magnolia</td>
<td>900.0</td>
<td>45/7 Ruddy</td>
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<tr>
<td>61/w Goldenrod</td>
<td></td>
<td>54/7 Canary</td>
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<tr>
<td>37/w Hawkweed</td>
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<tr>
<td>1000.0</td>
<td>61/w Camellia</td>
<td>874.5</td>
<td>54/7 Crane</td>
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<td>45/7 Rail</td>
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<td>1033.5</td>
<td>37/w Bluebell</td>
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<td>54/7 Cardinal</td>
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<td>45/7 Ortolan</td>
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<tr>
<td>61/w Narcissus</td>
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<td>54/7 Curlew</td>
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<td>1272.0</td>
<td>61/w Columbine</td>
<td>1192.5</td>
<td>45/7 Bittern</td>
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<td>1351.5</td>
<td>61/w Carnation</td>
<td>1127.0</td>
<td>54/19 Bunting</td>
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<td>45/7 Dipper</td>
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<td>61/w Coreopsis</td>
<td>1590.0</td>
<td>54/19 Martin</td>
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<td>61/w Jessamine</td>
<td>1510.5</td>
<td>45/7 Nuthatch</td>
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<td>84/19 Parrot</td>
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<td>2250.0</td>
<td>91/w Sagebrush</td>
<td>2156.0</td>
<td>84/19 Thrasher</td>
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<tr>
<td>2500.0</td>
<td>91/w Lupine</td>
<td>2312.0</td>
<td>76/19</td>
</tr>
</tbody>
</table>

*DLT58 Heads use the DLT58MAPW0000 power unit, DLT45 Heads use the DLT45MAPW000 power unit

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**CABLE EHV CONNECTORS**

Contact DMC Power to put these EHV features to work at your next substation

- Tested Corona free for use at and above 345 & 500 kV
- Reduced power loss and radio noise
- Weep holes, high quality surface finish, designed-in shielding rings and generous mass & radii for high ampacity and voltage

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**CEHV9440** Single Terminal Center formed 4-hole pad

**CEHV9442** Single Terminal Offset 4-hole pad

**CEHV9444** Single Terminal 45° Offset 4-hole pad

**CEHV9642** Double Terminal Offset 4-hole pad

**CEHV9644** Dual Cable Terminal 45° Offset 4-hole pad