CABLE CONNECTORS

- Aluminum or Copper material
- AAC, ACSR, ACAR, Ropelay, Copper & Metric Cables
- Pre-drilled inspection/weep hole
- Split, EHV and tin-plated versions available
- Custom angles, pads and barrel spacing
- Single Swage installation
- Instant inspection with Go/No-Go Gauge
- No bird caging or bent connectors

STATE OF THE ART SWAGE TECHNOLOGY
Substation customers around the world trust DMC Power’s patented Swage system on their most critical Transmission and Distribution connections.
Once you experience the peace of mind that our superior connection provides and the all-weather, time saving capabilities of our cutting edge design, you’ll never go back to your old way of installing electrical cable connections again.

Cable Swage System Advantages:

- **SAVE TIME**
  Lightweight tool uses just one 360° compression instead of multiple crimps.

- **COMPLETE 360° CONTACT**
  Swaging creates a virtually void free connection and maximizes conductivity by compressing the interior of the fitting around the exterior of the cable.

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

- **TIN PLATING**
  Available on all connectors for use with dissimilar metals and to deter copper theft.

- **SIMPLE ONE-STEP INSPECTION**
  Easily inspect your Swage in seconds with the handheld “Go/No-Go” Inspection Gauge.

- **CUSTOM SOLUTIONS AVAILABLE**
  A wide range of cable configurations and connector types (including Ropelay Cable, metric sizes, copper and EHV rated parts) are available for any type of job.

For those times you need a quick or custom solution, DMC Power is here to help. Our in-house engineering, R&D, manufacturing and testing teams will develop and deliver exactly what you need faster than anyone else.

Our connectors are available in a variety of configurations and sizes to handle any cable job

The lightweight Swage Tool connects cables in even the most hard to reach places

DMC Power’s cable connectors are qualified to meet or exceed nationally recognized standards and tests

Cable Connector Qualifications

<table>
<thead>
<tr>
<th>Standard</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tensile</strong></td>
<td>30%-53% (Min/Max) of conductor strength, 5% required for Class 3 connectors</td>
</tr>
<tr>
<td><strong>Current Cycle</strong></td>
<td>500 cycles (class A); met all thermal &amp; resistance requirements</td>
</tr>
<tr>
<td><strong>Pre-existing Cable</strong></td>
<td>After tapping into run, Swaged cable retained 90% of rated strength</td>
</tr>
<tr>
<td><strong>Salt Fog</strong></td>
<td>1,000 hours passed</td>
</tr>
<tr>
<td><strong>RIV/Corona</strong></td>
<td>Up to 500 kV with factor of safety on applicable fittings</td>
</tr>
<tr>
<td><strong>Temp Rise &amp; Resistance</strong></td>
<td>Runs cooler than cable at 100%, 125% &amp; 150% of ratings requirements</td>
</tr>
</tbody>
</table>
Many of our connectors have alternative part numbers for different standard pad widths. Look for this icon underneath the item to see the alternative pad size and standard part number. Of course ANY custom pad configuration can be designed, so if you don’t see it just ask!
# 4-Hole Terminals

**CPLK9440**
4-Hole Center Formed Pad Terminal
- Up to: 230kV
- Pad: 3¾"
- OD Weight: ~5 lbs

ORDERING EXAMPLE
CPLK9440D00020
2/0 Aster ACC Barrel to 4", 4-Hole Center Formed Pad; Aluminum

**CPLK9444**
4-Hole 45° Pad Terminal
- Up to: 345kV
- Pad: 3¾"
- OD Weight: ~5 lbs

ORDERING EXAMPLE
CPLK9444D07500
750 Cattail AAC Barrel to 4", 4-Hole 45° Pad; Aluminum

**CPLK9442**
4-Hole Offset Pad Terminal
- Up to: 345kV
- Pad: 3¾"
- OD Weight: ~5 lbs

ORDERING EXAMPLE
CPLK9442D13515
1272 Bittern ACSR Barrel to 4", 4-Hole Offset Pad; Aluminum

**CPLK9449**
4-Hole 90° Pad Terminal
- Up to: 230kV
- Pad: 3¾"
- OD Weight: ~5 lbs

ORDERING EXAMPLE
CPLK9449D22500
2167 Kiwi ACSR Barrel to 4", 4-Hole 90° Pad; Aluminum

**CPLK9445**
4-Hole 15° Pad Terminal

**CPLK9987**
Long Barrel to 4-Hole 45° Pad Terminal

**CPLK9984**
Extended 4-Hole 90° Pad Terminal

---

**ALSO AVAILABLE:**
Copper, EHV, custom pads, angles and other configurations available. Visit the product page on DMCPower.com for details.

---

### Superb Design

DMC Power manufactures our pads from extruded aluminum to meet and exceed NEMA Pad standards. What makes ours different?

- **Machined for perfect flatness**
- **Smooth surface finish = greater amount of contact points**
- **Thicker, oversized factor of safety**
- **Runs cooler**
- **Increased ampacity**
- **Greater resistance to fatigue**
- **Custom sizes, hole placement, barrel angles and mounting positions**
- **NEMA Pad EHV Bolt Shields (PLK8000) also available**

---

888-SWAGE-NOW
CPLK9642
DUAL BARRELS TO 4-HOLE
OFFSET PAD TERMINAL

ORDERING EXAMPLE
CPLK9642D12720
Dual 1192.5 Bunting ACSR Barrels
to 4", 4-Hole Offset Pad; Aluminum

CPLK9649
DUAL BARRELS TO 4-HOLE
90° PAD TERMINAL

ORDERING EXAMPLE
CPLK9649D22500
Dual 2156 Bluebird ACSR Barrels
to 4", 4-Hole 90° Pad; Aluminum

CPLK9644
DUAL BARRELS TO 4-HOLE
45° PAD TERMINAL

ORDERING EXAMPLE
CPLK9644D11130
Dual 1113 Marigold AAC Barrels
to 4", 4-Hole 45° Pad; Aluminum

CPLK9982
TRIPLE BARRELS TO 4-HOLE
OFFSET PAD TERMINAL

ORDERING EXAMPLE
CPLK9982D13515
Three 1351.5 Columbine AAC Barrels
to 4", 4-Hole Offset Pad; Aluminum

CL702
PARALLEL CABLE SPACER

ORDERING EXAMPLE
CL702D09540-8
Dual 954 Magnolia AAC Cables Spaced 8"; Aluminum

CL714
PARALLEL CABLE SPACER TO TRANSVERSE 4-HOLE PAD

ORDERING EXAMPLE
CL714D22500-18
Dual 2167 Kiwi ACSR Cables Spaced 18" with 4", 4-Hole Transverse Pad; Aluminum

COPPER CABLE CONNECTORS

All DMC Power cable connectors can be manufactured out of pure copper, with the exact same specifications and standards that meet or exceed our Aluminum ratings. This is the perfect solution when using copper conductors in coastal/high corrosive areas or to achieve higher ampacity. Look for this icon underneath the main item for the copper cable base part number and use the chart at the bottom of page 30 to find the connector identifier number used to complete the fitting.
Because DMC Power manufactures everything from scratch based on your requirements, it’s impossible for us to list the tens of thousands of different connectors and configurations possible in this catalog. If you’re looking for Metric sizes, Ropelay Cable or any other custom configuration, just call us at 888-SWAGE-NOW and let our in-house Engineering department do the work for you!
REDUCE BUS-TO-CABLE HOT SPOTS & MAINTENANCE

Why bolt pads together when you can have an all-in-one connection? Bolted connections require additional re-tightening, inspection and may lead to hot spots at the pad. Our CL style of Bus-to-Cable connectors are designed, machined and welded together to be a seamless connection between the two distinct styles. Any option you can think of is possible - go to DMCPower.com for a more complete listing.
**ORDERING EXAMPLE**

**CEHV9440**
EHV 4-HOLE CENTER FORMED PAD TERMINAL

- **Up to 345kV**
- ~2 lbs

**CEHV9440D12720**
1272 Narcissus AAC Barrel to 4", 4-Hole Center Formed Pad; EHV

---

**CEHV9442**
EHV 4-HOLE OFFSET PAD TERMINAL

- **Up to 500kV**
- ~6 lbs

**CEHV9442D2500**
2156 Bluebird ACSR Barrel to 4", 4-Hole Offset Pad; EHV

---

**CEHV9444**
EHV 4-HOLE 45° PAD TERMINAL

- **Up to 500kV**
- ~6 lbs

**CEHV9444D10000**
1000 Hawkweed AAC Barrel to 4", 4-Hole 45° Pad; EHV

---

**CEHV9642**
EHV DUAL BARRELS TO 4-HOLE CENTER FORMED PAD TERMINAL

- **Up to 500kV**
- ~10 lbs

**CEHV9642D2500**
Dual 2250 Sagebrush AAC Barrels to 4", 4-Hole Center Formed Pad; EHV

---

**CEHV9644**
EHV DUAL BARRELS TO 4-HOLE 45° PAD TERMINAL

- **Up to 500kV**
- ~11 lbs

**CEHV9644D2500**
Dual 2156 Bluebird ACSR Barrels to 4", 4-Hole 45° Pad; EHV

---

**CEHV9649**
EHV DUAL BARRELS TO 4-HOLE 90° PAD TERMINAL

- **Up to 500kV**
- ~12 lbs

**CEHV9649D09540**
Dual 900 Ruddy ACSR Barrels to 4", 4-Hole 90° Pad; EHV

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**APPLICATION NOTES**

- Bolt shields and corona rings are available
- Check with factory on cable sizes, spacing and for special EHV applications

---

**EXTRA HIGH VOLTAGE RATINGS**

Many of our Cable and Bus connectors have EHV equivalents rated up to 500kV and 765kV.

- Tested Corona free
- Reduced power loss and radio noise
- Pre-drilled weep holes and high quality surface finish
- Designed-in shielding rings with generous mass & radii for high ampacity and voltage

Look for this symbol below the parts to know they are rated for certain EHV applications or let us design a custom EHV connector for your specific needs.
No matter if you’re ordering a 6” aluminum bus expansion or a #6 gauge copper ground splice, DMC Power can plate it all - and fast. Our tin plating process:

- Dramatically reduces the effects of oxidization, especially in extreme weather environments
- Keeps conductivity high so more power is pushed through the smooth, clean surface
- Improves connector longevity
- Allows for the joining of two dissimilar metals
- Helps deter theft by eliminating visible copper

Our most popular tin plated items have this icon next to them, but anything is possible. Insert a “T” at the end of the complete part number when ordering (ex: CPLK9442D04500T) and leave the rest up to us.
**BUILDING THE PERFECT CONNECTOR**

Our connectors are designed to fit the exact diameter of the cable being used. This precision ensures that the level of compression and contact between the cable, the connector and the inner strands of cable are at the highest possible value.

Selecting the properly sized connector and corresponding Swage Tooling couldn’t be easier. Simply follow steps 1 & 2 in the chart below to find the 5-digit Connector Identifier Number used in our standard connector ordering nomenclature on page 30. Based on that number, step 3 will list which head assembly size is required to install that particular connector O.D.

Call our customer service team at 888-SWAGE-NOW if you have questions about selecting your connector or for other cable types and sizes not listed.

1. Find the AAC/ACSR conductor being used
2. Use the corresponding Connector Identifier Number to fill out the part number, see page 30
3. Note the Head Assembly size based on the Connector Identifier Number

<table>
<thead>
<tr>
<th>AAC CONDUCTOR</th>
<th>ACSR CONDUCTOR</th>
<th>Connector Identifier Number</th>
<th>HEAD ASSEMBLY*</th>
<th>O.D.</th>
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</thead>
<tbody>
<tr>
<td>SIZE (kcmil)</td>
<td>STR (Al/St)</td>
<td>CODE WORD</td>
<td>SIZE (kcmil)</td>
<td>STR (# Wires)</td>
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<tr>
<td>#6 7/w</td>
<td></td>
<td>Peachbell</td>
<td>#6 6/1</td>
<td>Turkey</td>
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<tr>
<td>#4 7/w</td>
<td></td>
<td>Rose</td>
<td>#5 6/1</td>
<td>Thrush</td>
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<tr>
<td>#2 7/w</td>
<td></td>
<td>Iris</td>
<td>#4 7/1</td>
<td>Swan</td>
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<td>Pansey</td>
<td>#2 6/1</td>
<td>Sparrow</td>
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<td>Poppy</td>
<td>#1 6/1</td>
<td>Swanate</td>
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<td>18/1</td>
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<td>26/7</td>
<td>Partridge</td>
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<td>300.0 26/7</td>
<td>Ostrich</td>
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<td>Daffodil</td>
<td>336.4 26/7</td>
<td>Merlin</td>
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<tr>
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<td>Canna</td>
<td>397.5 30/7</td>
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<td>397.5 30/7</td>
<td>Brant</td>
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<td>Cosmos</td>
<td>24/7</td>
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<td>37/w</td>
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<td>24/7</td>
<td>Flicker</td>
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<td></td>
<td></td>
<td>Misletoe</td>
<td>26/7</td>
<td>Hawk</td>
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<tr>
<td>AAC CONDUCTOR SIZE (kcmil)</td>
<td>STR (Al/St)</td>
<td>CODE WORD</td>
<td>ACSR CONDUCTOR SIZE (kcmil)</td>
<td>STR (# Wires)</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------</td>
<td>-----------</td>
<td>-------------------------------</td>
<td>---------------</td>
</tr>
<tr>
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<td>37/w</td>
<td>Meadowsweet</td>
<td>477.0</td>
<td>30/7</td>
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<tr>
<td>600.0</td>
<td>61/w</td>
<td>Flag</td>
<td>636.0</td>
<td>18/1</td>
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<td>700.0</td>
<td>37/w</td>
<td>Verbenas</td>
<td>636.0</td>
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<td>605.0</td>
<td>30/7</td>
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<tr>
<td>715.5</td>
<td>61/w</td>
<td>Lilac</td>
<td>715.5</td>
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<tr>
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<td>30/19</td>
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<td>Arbutus</td>
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<tr>
<td>795.0</td>
<td>61/w</td>
<td>Lilac</td>
<td>715.5</td>
<td>24/7</td>
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<tr>
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<td>Marigold</td>
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<td>1192.5</td>
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<td>61/w</td>
<td>Narcissus</td>
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<td>Cowslip</td>
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<td>91/w</td>
<td>Sagebrush</td>
<td>2156.0</td>
<td>76/19</td>
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<tr>
<td>2303.5</td>
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<td>Lupine</td>
<td>2167.0</td>
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<td>Trillium</td>
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<td>127/w</td>
<td>Nightshade</td>
<td>4326.9</td>
<td>76/19</td>
</tr>
</tbody>
</table>

*DLT58- Heads Assemblies use the DLT58MAPW0000 Power Unit; DLT45- Head Assemblies use the DLT45MAPW0000 Power Unit
CABLE CONNECTOR ORDERING NOMENCLATURE

1. BASE CONNECTOR STYLE (CPLK=Standard; CL=Special; CBLR=Ropelay; CCL=Copper; CM=Cable Metric)

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

3. CONNECTOR IDENTIFIER NUMBER (Cable = 5 digits, see page 28 & 29; Bus = 2 digits, see right)

4. SECOND CONNECTOR IDENTIFIER NUMBER (Optional - for Tap Sizes, Bolt Circles & Cable Spacing)

5. FINISH (S=Bare Aluminum/Copper; T=Tin Plated)

CPLKXXXX D XXXXX – XXXXX X

BUS SIZES

<table>
<thead>
<tr>
<th>DMC SIZE</th>
<th>PIPE SIZE</th>
<th>FITTING O.D.</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>3/4&quot;</td>
<td>2.000</td>
</tr>
<tr>
<td>16</td>
<td>1&quot;</td>
<td>2.000</td>
</tr>
<tr>
<td>20</td>
<td>1-1/4&quot;</td>
<td>2.500</td>
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<tr>
<td>24</td>
<td>1-1/2&quot;</td>
<td>2.500</td>
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<td>32</td>
<td>2&quot;</td>
<td>3.000</td>
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<td>40</td>
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<td>3.750</td>
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<tr>
<td>96</td>
<td>6&quot;</td>
<td>8.000</td>
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</table>

BARE COPPER CONDUCTOR

<table>
<thead>
<tr>
<th>SIZE (AWG / kcmil)</th>
<th>STR</th>
<th>Connector Identifier Number</th>
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</thead>
<tbody>
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<td>19</td>
<td>00010</td>
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<tr>
<td>2/0</td>
<td>19</td>
<td>00020</td>
</tr>
<tr>
<td>3/0</td>
<td>19 &amp; 37</td>
<td>00030</td>
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<tr>
<td>4/0</td>
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<td>37</td>
<td>03500</td>
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<tr>
<td>400</td>
<td>37</td>
<td>04000</td>
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<tr>
<td>450</td>
<td>19</td>
<td>04500</td>
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<tr>
<td>500</td>
<td>37 &amp; 61</td>
<td>05000</td>
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</tbody>
</table>

COPPER CABLE SIZE SELECTION CHART

- The Connector Identifier Numbers listed below should only be used with copper cable conductors
- Every aluminum connector can be designed into a copper equivalent, contact DMC Power for details

Bus to Cable Example:

<table>
<thead>
<tr>
<th>BUS TO CABLE EXAMPLE:</th>
<th>COPPER CABLE EXAMPLE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS RUN 1033.5</td>
<td>Copper 4-Hole Offset Terminal</td>
</tr>
<tr>
<td>Bus to Cable Coupler</td>
<td>450/AWG Copper Cable</td>
</tr>
<tr>
<td>4&quot;</td>
<td>Tin Plated</td>
</tr>
</tbody>
</table>

CPLK9209 D 00006 S

2-Hole 90° Terminal
#6 Peachbell AAC Cable
Bare Aluminum

CL400 D 64 – 11130 T

Bus to Cable Coupler
4"
1033.5 Curlew ACSR Cable
Tin Plated

CCL9442 B 04500 T

Copper 4-Hole Offset Terminal
450/AWG Copper Cable
Tin Plated

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