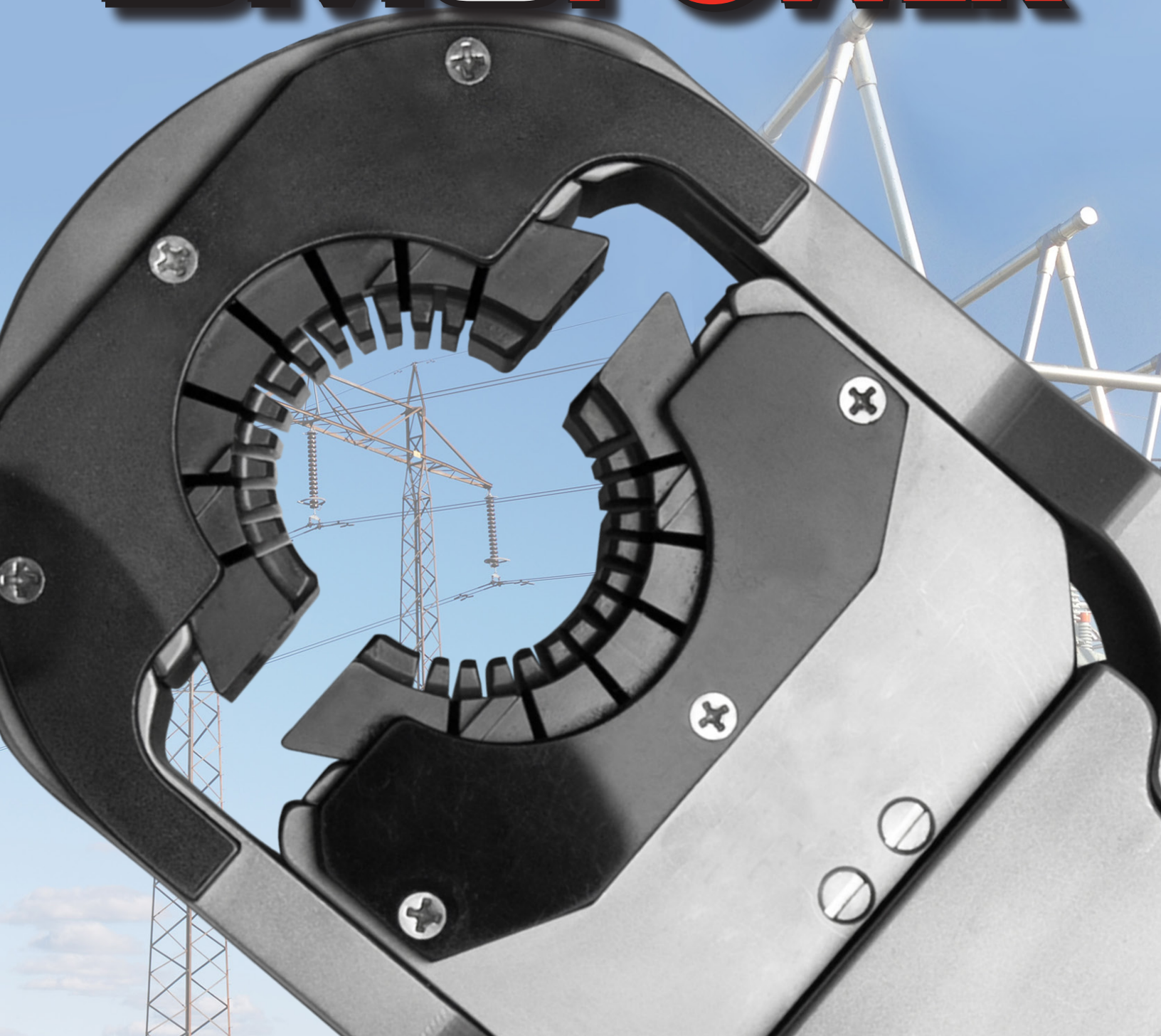


DMCPOWER



SWAGE CONNECTION SYSTEM



BUS

CABLE

GROUNDING

FULL TENSION

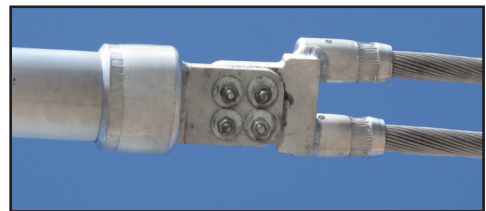
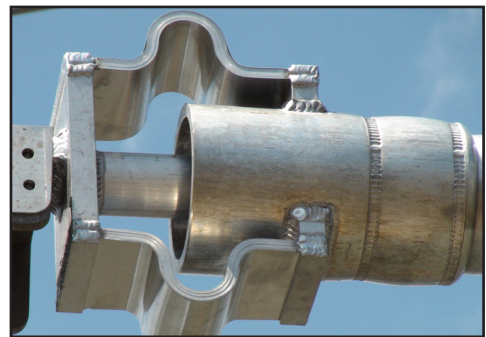
SUPERIOR SUBSTATION AND

DMC Power has rapidly evolved over the past half century from a manufacturer of aerospace components into a leading supplier of Substation and Transmission connections around the world. How did we do it? By inventing and perfecting the most advanced connection system in the world: 360° Radial Swaging.

Originally designed – and still in use - for Aerospace applications, DMC Power Swage Tools and Connectors are specially designed to work in tandem with each other to create the most robust and reliable bus, cable, ground and full tension connections in the power industry.

Our customers realize the overall value that DMC Power provides at each and every jobsite and the distinct advantages our Swage System has over other connection methods by being:

- **Faster** – Connections in as little as 15 seconds
- **Safer** – Absence of gases, chemicals, explosions, molten metal and potential line failure minimizes installer safety risks
- **Repeatable** – No variability based on installer or weather; consistent connections time after time
- **Verifiable** – Simple to use “Go/No-Go” Gauge ensures the connection is secure. No x-rays or other expensive & lengthy inspection methods required
- **Tested** – Extensively tested to meet or exceed all nationally recognized standards, including ANSI C119.4, NEMA CC1, IEEE & ASTM
- **Certified** – ISO 9001:2008 facility with engineering, testing and manufacturing under one roof
- **All-Weather** – On the job 365 days a year; no downtime during rain, sleet, snow, high wind, high humidity or muddy conditions
- **Unsurpassed Quality** – The best materials engineered for each application & process
- **Lower Total Project Cost** – By the end of the job, the total cost of the project (not to mention the risk of injury or connector failure involved with other systems) is by far the lowest in the industry
- **Global Presence, Local Support** – Training when and where you need it



TRANSMISSION CONNECTIONS

SERIOUS QUALITY CONTROL

DMC Power is a "Total Quality" ISO 9001:2008 certified U.S. manufacturing facility committed to continuously and measurably improving our products, services and the overall Quality Management System.

Being ISO 9001:2008 certified helps ensure that our customers receive consistently great quality products with every order. This is achieved through continuous internal audits and yearly independent audits to verify our Quality Management System conforms to strict industry standards.

From initial quoting through on-time deliveries, our pledge to exceed customer expectations of a defect-free, premium value product is one we're proud to make and certain to deliver. We commit that we will provide:

- **Totally open communication with our customers**
- **Only the highest quality products and services**
- **Products and services delivered on time and in the best possible way**
- **Systems of continuous Quality Improvement**
- **Verified, independent test reports**
- **Continuously improved products, services, and the Quality Management System that supports them**

MADE IN



U. S. A.



Our parts catalog contains just a small sample of the most popular connectors from the thousands of different styles and configurations we have available.

Each connector shown includes the base part number, description, image, a typical ordering example and a variety of icons which contain easy to understand information at a glance.

If you need more information, our world class sales and customer service teams are here to help you every step of the way. Simply call us at **888-SWAGE-NOW** or visit us online at **www.DMCPower.com** to see even more connectors, cut sheets, cross-reference guides, part builder tools and more!

| | | |
|---|---|---|
| | | |
| <i>kV rating for a particular set of sizes*</i> | <i>Approximate weight for the middle sized OD of a particular connector**</i> | <i>Different pad widths commonly used</i> |
| | | |
| <i>Base part number for the copper equivalent</i> | <i>Base part number for using a split run</i> | <i>Base part number for different pad widths than the one shown</i> |
| | | |
| <i>Connector is frequently ordered with one end capped</i> | <i>Connector has an EHV rating</i> | <i>Connector is frequently tin-plated</i> |
| | | |
| <i>Connector is frequently ordered with standard or custom angle variations</i> | <i>Shows the standard bolt circle patterns available</i> | <i>Suffix indicator for various pad sizes and angles</i> |

* Dependant on bolt shields, corona rings, cable spacing and application

** Contact factory for exact weights

SWAGE TOOLING

- Single Swage installation in most applications
- Operates in all weather and ground conditions
- Consistent, repeatable, measurable performance
- Hydraulically operated
- Interchangeable heads for various applications
- Complete rental kits and accessories available

CONNECT WITH THE BEST

DMC Power connectors and Swage tools are proudly made in the U.S.A. and tested to exceed industry standards to provide you with the highest quality bus, cable, grounding, EHV and transmission connections.

Special attention has been paid to safety, speed, reliability and ease of use. We're confident that once you experience the benefits of Swaging you'll never go back to your old installation method again. The best part of the Swage System is that anyone can use our tools. With on-site training and by following the simple, safe, operation, safety and maintenance steps you will:

- **Increase installation speed**
- **Raise safety standards**
- **Reduce downtime**
- **Operate in all weather conditions**
- **Lower the total cost of your project**

Complete training designed to teach personnel how to properly install DMC Power Connectors and operate DMC Power Swage Tools are provided at no additional cost.

Contact your Territory Manager or DMC Power directly at **888-SWAGE-NOW** to schedule your team's training today!



WARRANTY INFORMATION

Our Swage tools are a highly engineered piece of equipment that have been designed, manufactured and tested to be used as a mate with only DMC Power connectors, completing our patented "Swage System". Everything we do in regards to material selection, manufacturing processes, testing and certification has come from decades of experience and independent testing of our system as a mate.

If DMC Power Swage Tools are not used with DMC Power connectors you are creating a safety and quality issue and immediately voiding all warranties or guarantees, implied or otherwise, on the tool and the connection being made. Any and all liabilities of the tool and connection will be the sole responsibility of the customer/end user.

DMC Power agrees to repair or replace, free of charge, any Yoke, Die Block or Power Unit manufactured by DMC Power which proves to be defective due to faulty workmanship or materials within 1 year of shipment from the factory. Dies, Endplates and Pumps have a 90 day warranty. This will be honored provided written notice is received by the company immediately following the discovery of such defect.

DMC Power shall have no liability for damages or delays resulting from the use of alternative connectors, any unauthorized substitute service parts or unauthorized repairs not performed by DMC Power. These actions will immediately void the warranty and may cause the equipment to perform in an unsatisfactory or unsafe manner.

360° SWAGING POWER

SUPERIOR QUALITY

Constructed from solid material for maximum strength and reliability

SAVES TIME

Consistently install connectors faster than other methods

ALL-WEATHER

Operates in freezing temperatures, wind, snow, rain & heat

IMPROVES SAFETY

No open flames or special safety equipment required

LOWER TOTAL PROJECT COST

Reduce labor expenses, set-up costs and downtime

INSPECTABLE QUALITY

Easily and immediately verify Swage with "Go/No-Go" Gauge

EASY TO USE

On-site training gets crews Swaging in as little as 15 minutes

CONSISTENT RESULTS

One button operation produces quick and repeatable results

EASY MAINTENANCE

Few moving parts and easy die removal for cleaning and lubrication

MULTI-PURPOSE

Single tool can be used for various bus, cable, grounding and full tensions applications

Contact DMC POWER to learn more about PURCHASE and RENTAL options



Safety Lanyard tethers the tool to your jig or boom for safe aerial installations

Flexible dies provide up to 115 tons of pressure around the entire connector

Die Block secured with quick-release pins or set screws

10,000 psi hydraulic power unit produces consistent and repeatable Swages

Swivel & Quick Disconnects allow for field friendly maneuverability with fast set up and breakdown of tool



KIT INCLUDES

- Swage Tool
- Die Set
- Hydraulic Pump
- Hydraulic Hose
- Inspection Gauge
- Swage Lube
- Carrying Case

DLT45 / DP45**45 POWER UNIT**

| | | |
|---------------------------------|---------------------------------------|---|
| 360° Power 45 Tons | Head Assembly Weight 7+ lbs | Power Unit Weight 17 lbs |
| Ground OD 1" - 2 1/4" | Cable OD 1/2" - 2 1/4" | Full Tension OD 1 1/4" - 2 1/4" |



*DLT45 Power Unit
with 1-1/2" Head Assembly*

**TOOLING
TIPS**

**Buy or Rent Interchangeable Head Assemblies
and Inspection Gauges to Increase Tool Flexibility &
Accelerate Time Savings!**



| BUS | | | |
|----------|----------------|------------------|----------------|
| BUS O.D. | HEAD ASSEMBLY | INSPECTION GAUGE | POWER UNIT |
| 1" | DLT57PLHA0016 | PLKIG2000-16 | DLT58MAPW0000 |
| 1 - 1/2" | DLT57PLHA0024 | PLKIG2000-24 | |
| 2" | DLT57PLHA0032 | PLKIG2000-32 | |
| 2 - 1/2" | DLT57PLHA0040 | PLKIG2000-40 | |
| 3" | DLT57PLHA0048 | PLKIG2000-48 | |
| 1" | DLT65PLHA0016 | PLKIG2000-16 | DLT65MAPW0000 |
| 1 - 1/2" | DLT65PLHA0024 | PLKIG2000-24 | |
| 2" | DLT65PLHA0032 | PLKIG2000-32 | |
| 2 - 1/2" | DLT65PLHA0040 | PLKIG2000-40 | |
| 3" | DLT65PLHA0048 | PLKIG2000-48 | |
| 3 - 1/2" | DLT65PLHA0056 | PLKIG2000-56 | DLT86MAPW0000 |
| 4" | DLT65PLHA0064 | PLKIG2000-64 | |
| 5" | DLT86PLHA0080 | PLKIG2000-80 | DLT86MAPW0000 |
| 6" | PLT115PLTA0000 | PLKIG2000-96 | PLT115MAPE1000 |

| CABLE AND GROUND | | | |
|------------------|----------------|---|---------------|
| FITTING O.D. | HEAD ASSEMBLY | INSPECTION GAUGE | POWER UNIT |
| 1/2" | DLT45CLHA00004 | DLT45CLIG00004 (C) GCIG200-02G (G) | DLT45MAPW0000 |
| 3/4" | DLT45CLHA00010 | DLT45CLIG00010 | |
| 1" | DLT45CLHA02500 | DLT45CLIG02500 | |
| 1 - 1/4" | DLT45CLHA03975 | DLT45CLIG03975 (C) GCIG200-03975 (G) | |
| 1 - 1/2" | DLT45CLHA05565 | DLT45CLIG05565 (C) GCIG200-05565 (G) | |
| 1 - 3/4" | DLT45CLHA07155 | DLT45CLIG07155 | |
| 1 - 7/8" | DLT45CLHA08745 | DLT45CLIG08745 (C) GCIG200-08745 (G) | |
| 2" | DLT45CLHA11130 | DLT45CLIG11130 (C) GCIG200-11130 (G) | |
| 2 - 1/4" | DLT45CLHA15900 | DLT45CLIG15900 (C) GCIG200-15900 (G) | |
| 2 - 3/4" | DLT58CLHA25000 | DLT45CLIG25000 | |
| 3 - 1/4" | DLT58CLHA40000 | DLT45CLIG40000 | DLT58MAPW0000 |

DLT58 / DP58

58 POWER UNIT

| | | |
|------------------------------|--|------------------------------------|
| 360° Power 58 Tons | Head Assembly Weight 18+ lbs | Power Unit Weight 26 lbs |
| Bus OD 1" - 3" | Cable OD 2¾" | Full Tension OD 2" - 2¾" |



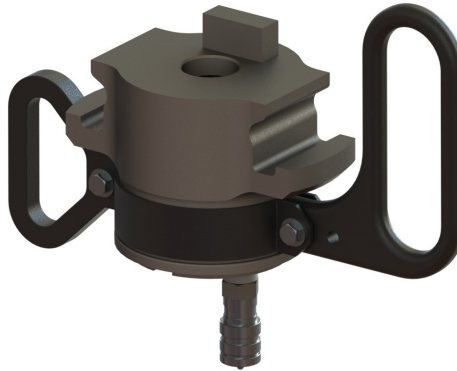
DLT58 Power Unit
with 3" Head Assembly

BUS, CABLE & FULL TENSION

DLT65

65 POWER UNIT

| | | |
|------------------------------|--|------------------------------------|
| 360° Power 65 Tons | Head Assembly Weight 23+ lbs | Power Unit Weight 28 lbs |
| Bus OD 1" - 4" | | |



DLT65 Power Unit
with 4" Head Assembly

BUS

DP85 (Full Tension) DLT86 (5" Bus)

85 & 86 POWER UNITS

| | | |
|---------------------------------|--|-------------------------------------|
| 360° Power 85/86 Tons | Head Assembly Weight 24+ lbs | Power Unit Weight 43+ lbs |
| Bus OD 5" | Full Tension OD 5/8" - 2¾" | |



DP85 Power Unit with 2"
Full Tension Head Assembly



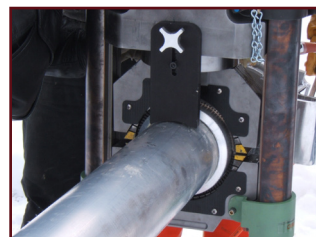
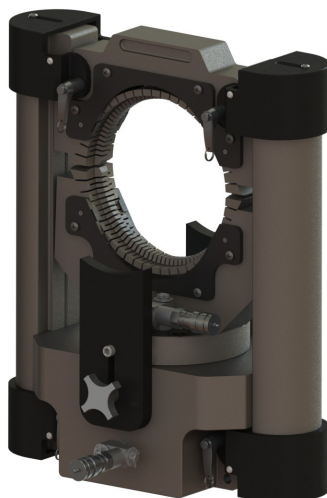
DLT86 Power Unit
with 5" Head Assembly

BUS & FULL TENSION

PLT115**6" BUS TOOL**

| | | |
|-------------------------------|--|---------------------|
| 360° Power 115 Tons | Head Assembly Weight 500 lbs | Bus OD 6" |
|-------------------------------|--|---------------------|

- 2-Stage Pump Required (PLT115PLPE1001) – see next page
- Includes 5-Point lifting cradle for easy installation at any angle

**TOOLING TIPS**

DMC Power Offers Three Great Options To Get You Started Swaging:

1**PURCHASE**

- Perfect choice for users with:
- Continuous projects
 - Higher volume connections
 - Unpredictable weather
 - Tool maintenance personnel

**2****RENTAL**

- Great option for:
- Low volume projects
 - Budget conscious users
 - Expanding Swage tool potential (rent Head Assemblies)
 - Emergency maintenance/repairs
 - Accelerated time savings (Rent multiple tools)
 - Short staffed/welders not available

3**TRIAL**

Whether you're brand new to Swaging or are already a satisfied customer exploring new product categories, we've got you covered with our Tool Trial offer.

DMC Power will deliver Swage Tooling to your jobsite or facility, train your team and let you see for yourself – on your own LIVE project - the power of Swaging with this low risk commitment.

ALL TOOLS QUALIFY FOR:

FREE user training | 24/7 jobsite support | International shipping | Bulk discounts

Tooling is on the shelf and ready to ship - call **888-SWAGE-NOW** to place your order today!

HYDRAULIC PUMPS

- Reservoir sight window to determine hydraulic oil level
- Various Hydraulic Hose and Hand Control options available
- Factory filled hydraulic oil reservoir
- Shipped safely in sturdy, wheeled case

DLT12MAPE1001

ELECTRIC HYDRAULIC PUMP

- Used with DLT45/58/65/85/86 Power Units
- Calibrated to stop at 10,000 psi
- Push button activation and automatic retraction
- 5/8 HP, 10,000 RPM motor
- 115V AC, 50/60 Hz
- 1.6 quart hydraulic fluid reservoir
- 7"L x 8"W x 14"H; 28 lbs
- Includes 10' push button hand control and 10' hydraulic hose with threaded connectors



PLT115PLPE1001

2-STAGE HYDRAULIC PUMP

- Used with the PLT115 6" Bus tool only
- Calibrated to stop at 9,000 psi
- Manual control with advance, hold & retract settings
- 1/2 HP, 12,000 RPM motor
- 110/115V AC, 50/60 Hz
- 1/2 gallon hydraulic fluid reservoir
- 12"L x 10"W x 19"H; 42 lbs
- Includes 10' push button hand control and 10' hydraulic hose with threaded connectors



DLT17MAPE1001

GAS POWERED PUMP

- Used with all Power Units
- 2-Stage pump for rapid advance
- Calibrated to stop at 10,000 psi
- 5.5 HP Honda CHV-Type engine
- Includes protective roll cage
- 3 gallon hydraulic fluid reservoir
- 22"L x 20"W x 25"H; 154 lbs
- Includes 50' push button hand control and 50' hydraulic hose with threaded connectors



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.

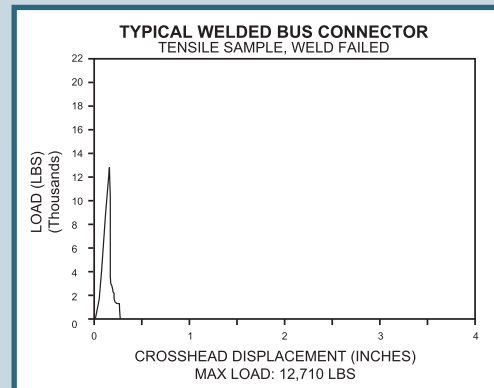
Extensive comparative testing shows the DMC Power Swaging system outperforms welded and bolted counterparts in all major tests. Each Swaged Bus connector results in a superior mechanical, thermal and electrical connection for your substation needs.

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)

| | |
|---------------|--|
| Corona/RIV | Qualified for up to 765kV substations* |
| Fault Current | 45kA |
| Current Cycle | 500 cycles air, 100 cycles water |
| Bending | 13,000 lbs. load |
| Vibration | 2hz to 125hz, over 1 million cycles |
| Tensile | Over 17,000 lbs. |
| Salt Fog | 1,000 hours per ASTM B117-90 |

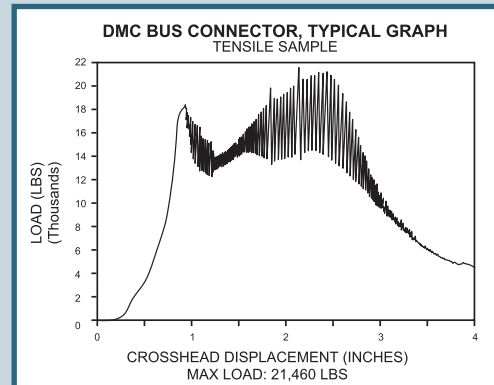
* Some parts may require additional shielding



Typical Test Graph for Welded Connector Failure

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 DMC Power Swaged Connector



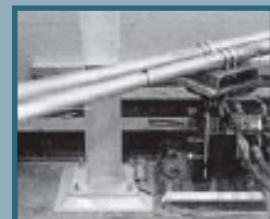
Current Cycle Testing



Temperature Rise Testing



Bend Testing

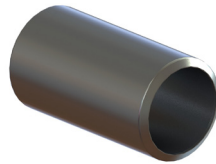


Vibration Testing

PLK1000

SPLICE

| | | | |
|------------|---------|---------|-----------|
| 1" - 2½" | 3" - 4" | 5" - 6" | 3" Weight |
| 230kV | 500kV | 765kV | ~4 lbs |
| Cu CPL1000 | PLK5000 | EHV | |



ORDERING EXAMPLE

PLK1000D16

1" Aluminum Splice

PLK1010

SPLICE REDUCER

| | | | |
|------------|---------|---------|-----------|
| 1" - 2½" | 3" - 4" | 5" - 6" | 3" Weight |
| 230kV | 500kV | 765kV | ~5 lbs |
| Cu CPL1010 | EHV | | |



ORDERING EXAMPLE

PLK1010D 24 64

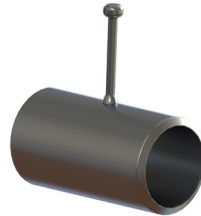
2-½" to 4" Aluminum Splice Reducer

Small Run
Large Run

PLK1160

GROUND STUD ASSEMBLY

| | |
|------------|-----------|
| 1" - 6" | 3" Weight |
| 230kV | ~4 lbs |
| Cu CPL1160 | PLK5160 |



ORDERING EXAMPLE

PLK1160D48

3" Aluminum Splice with Ground Stud

PLK3160

EHV GROUND STUD WITH BALL

| | |
|------------|-----------|
| 1" - 6" | 3" Weight |
| 500kV | ~6 lbs |
| Cu CPL3160 | PLK3166 |



ORDERING EXAMPLE

PLK3160D64 - 12

4" Aluminum EHV Splice with 500kV, 12" Ball Ground Stud

Ball Diameter

PLK1161

GROUND STIRRUP

| | |
|------------|-----------|
| 1" - 6" | 3" Weight |
| 230kV | ~7 lbs |
| Cu CPL1161 | PLK5161 |



ORDERING EXAMPLE

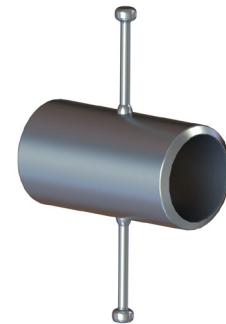
PLK1161D80

5" Aluminum Splice with Ground Stirrup

PLK1165

DUAL GROUND STUD ASSEMBLY

| | |
|------------|-----------|
| 1" - 6" | 3" Weight |
| 230kV | ~5 lbs |
| Cu CPL1165 | PLK5165 |



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.

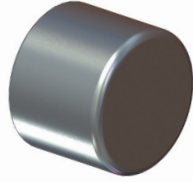
Look for this icon  and the corresponding base part number on our most popular split fitting connectors, or just replace the first digit (PLK1###) with a 5 (PLK5###) for your new split fitting part number.

APPLICATION NOTES



PLK1350

END CAP



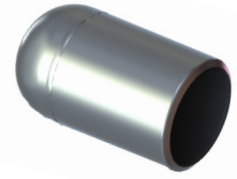
ORDERING EXAMPLE

PLK1350D48

3" Aluminum End Cap

PLK1360

ROUNDED END CAP



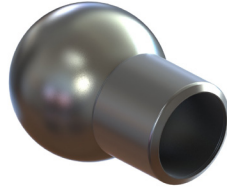
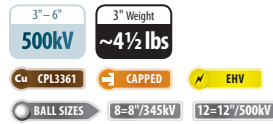
ORDERING EXAMPLE

PLK1360D32

2" Aluminum Rounded End Cap

PLK3361

EHV BALL-STYLE END CAP



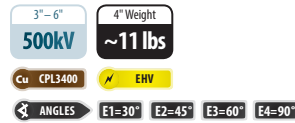
ORDERING EXAMPLE

PLK3361D64 - 12 Ball Diameter

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

PLK3400

EHV ELBOW WITH CORONA RING



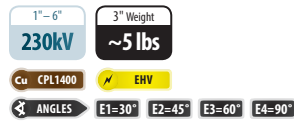
ORDERING EXAMPLE

PLK3400D80 E3 Elbow Angle

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

PLK1400

ELBOW



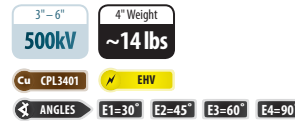
ORDERING EXAMPLE

PLK1400D32 E1 Elbow Angle

2" Aluminum Elbow at 30° Angle

PLK3401

EHV LARGE RADIUS ELBOW



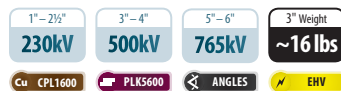
ORDERING EXAMPLE

PLK3401D64 E4 Elbow Angle

4" Aluminum EHV Large Radius Elbow at 90° Angle

PLK1600

A-FRAME



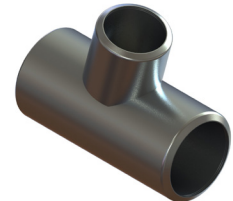
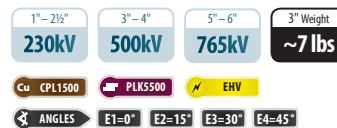
ORDERING EXAMPLE

PLK1600D48 64

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

Tap/Leg
Main Run**PLK1500**

TEE



ORDERING EXAMPLE

PLK1500D 16 40 E2

Aluminum Bus Tee connecting 1" Tap to 2-1/2" Run at 15° Angle

Tap/Leg
Main Run
Leg Angle

PLK1100

4-HOLE LONGITUDINAL PAD TEE

| | | | |
|------------|----------|------------|-----------|
| 1"–3" | 3½"–6" | Pads | 3" Weight |
| 230kV | 500kV | 3"/4" | ~7 lbs |
| Cu CPL1100 | PLK5100 | CAPPED | EHV |
| PAD SIZE | E1=4"x5" | E2=4"x5.5" | E3=4"x7" |
| | E5=3"x5" | E6=3"x5.5" | E7=3"x7" |
| | | E4=4"x8" | E8=3"x8" |

ORDERING EXAMPLE

PLK1100D32E1 — Pad Size
2" Aluminum Tee with 4"x5",
4-Hole Longitudinal Pad



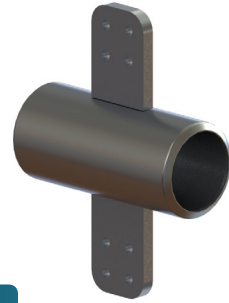
PLK1120

DUAL 4-HOLE LONGITUDINAL PAD TEE

| | | | |
|------------|----------|------------|-----------|
| 1"–3" | 3½"–6" | Pads | 3" Weight |
| 230kV | 500kV | 3"/4" | ~7 lbs |
| Cu CPL1120 | PLK5120 | CAPPED | EHV |
| PAD SIZE | E1=4"x5" | E2=4"x5.5" | E3=4"x7" |
| | | E4=4"x8" | |

ORDERING EXAMPLE

PLK1120D48E1 — Pad Size
3" Aluminum Tee with Two,
4"x5", 4-Hole Longitudinal Pads



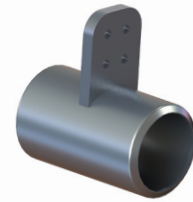
PLK1150

4-HOLE 90° TRANSVERSE PAD TEE

| | | | |
|------------|---------|---------|-----------|
| 1"–3" | 3½"–6" | Pads | 3" Weight |
| 230kV | 345kV | 3"/4" | ~6 lbs |
| Cu CPL1150 | PLK5150 | CAPPED | EHV |
| PAD WIDTH | L1=3" | L2=4" | |
| PAD LENGTH | E1=4.5" | E2=5.5" | E3=7" |
| | | E4=8" | |

ORDERING EXAMPLE

PLK1150D L1 E3 — Pad Width
Pad Length
2" Aluminum Tee with 3"x7",
4-Hole 90° Transverse Pad



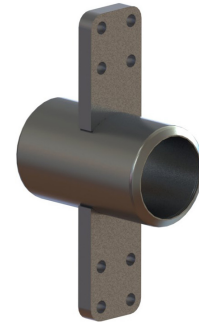
PLK1170

DUAL 4-HOLE 90° TRANSVERSE PAD TEE

| | | | |
|------------|---------|---------|-----------|
| 1"–3" | 3½"–6" | Pads | 3" Weight |
| 230kV | 345kV | 3"/4" | ~7 lbs |
| Cu CPL1170 | PLK5170 | CAPPED | EHV |
| PAD WIDTH | L1=3" | L2=4" | |
| PAD LENGTH | E1=4.5" | E2=5.5" | E3=7" |
| | | E4=8" | |

ORDERING EXAMPLE

PLK1170D80 L2 E3 — Pad Width
Pad Length
5" Aluminum Tee with Two,
4"x7", 4-Hole 90° Transverse Pads



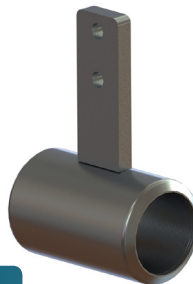
PLK1200

2-HOLE LONGITUDINAL PAD TEE

| | | |
|------------|---------|-----------|
| 1"–6" | Pads | 3" Weight |
| 230kV | 2" | ~4 lbs |
| Cu CPL1200 | PLK5200 | CAPPED |
| PAD LENGTH | E1=5" | E2=5.5" |
| | E3=7" | E4=8" |

ORDERING EXAMPLE

PLK1200D32E1 — Pad Length
2" Aluminum Tee with 2"x5",
2-Hole Longitudinal Pad



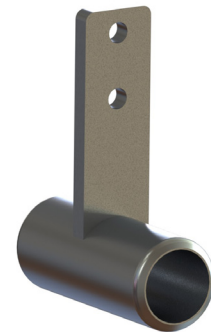
PLK1250

2-HOLE 90° TRANSVERSE PAD TEE

| | | |
|------------|---------|-----------|
| 1"–6" | Pads | 3" Weight |
| 230kV | 2" | ~4 lbs |
| Cu CPL1250 | PLK5250 | CAPPED |
| PAD LENGTH | E1=5" | E2=5.5" |
| | E3=7" | E4=8" |

ORDERING EXAMPLE

PLK1250D48E1 — Pad Length
3" Aluminum Tee with 2"x5",
2-Hole 90° Transverse Pad



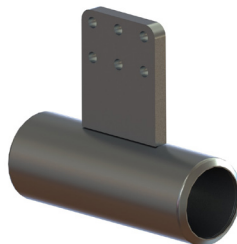
PLK1106

6-HOLE LONGITUDINAL PAD TEE

| | | | |
|------------|----------|----------|-----------|
| 1"–3" | 3½"–6" | Pads | 3" Weight |
| 230kV | 500kV | 5"/6" | ~7 lbs |
| Cu CPL1106 | PLK5106 | CAPPED | EHV |
| PAD SIZE | E1=5"x5" | E2=5"x6" | E3=5"x7" |
| | E5=6"x5" | E6=6"x6" | E7=6"x7" |
| | | E4=5"x8" | E8=6"x8" |

ORDERING EXAMPLE

PLK1106D48E1 — Pad Size
3" Aluminum Tee with 5"x5",
6-Hole Longitudinal Pad



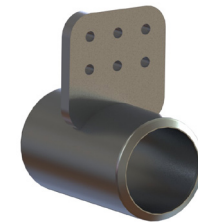
PLK1156

6-HOLE 90° TRANSVERSE PAD TEE

| | | | |
|------------|----------|----------|-----------|
| 1"–3" | 3½"–6" | Pads | 3" Weight |
| 230kV | 345kV | 5"/6" | ~7 lbs |
| Cu CPL1156 | PLK5156 | CAPPED | EHV |
| PAD SIZE | E1=5"x5" | E5=6"x5" | |

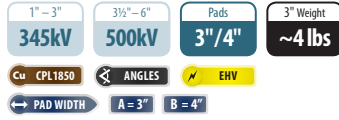
ORDERING EXAMPLE

PLK1156D16E5 — Pad Size
1" Aluminum Tee with 6"x5",
6-Hole 90° Transverse Pad



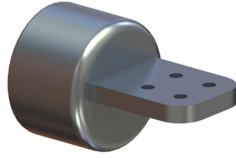
PLK1850

4-HOLE CENTER FORMED PAD TERMINAL



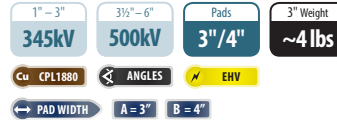
ORDERING EXAMPLE

PLK1850D80B Pad Width
5" Aluminum Terminal with
4", 4-Hole Center Formed Pad



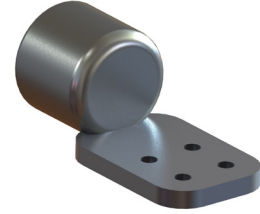
PLK1880

4-HOLE OFFSET PAD TERMINAL



ORDERING EXAMPLE

PLK1880D24A Pad Width
1-1/2" Aluminum Terminal
with 3", 4-Hole Offset Pad

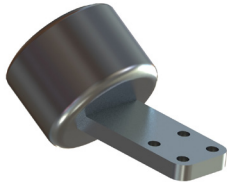


ANGLED PAD OPTIONS:

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

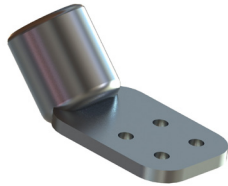
PLK1863

4-HOLE 30° ANGLED PAD



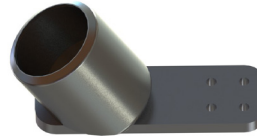
PLK1860

4-HOLE 45° ANGLED PAD



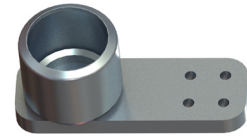
PLK1866

4-HOLE 60° ANGLED PAD



PLK1870

4-HOLE 90° ANGLED PAD




CUSTOM SOLUTIONS

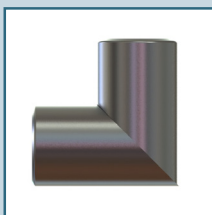


ANY CONNECTOR. ANY ANGLE.

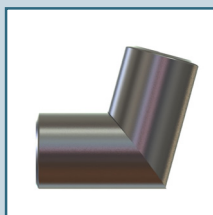
Of course we have standard 15°, 30°, 45°, 60°, 75° & 90° angled parts, but what happens when something doesn't match up exactly as designed, shifts over time or needs to be cut out and replaced?

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

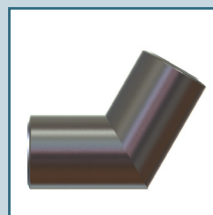
This icon  **ANGLES** indicates we have numerous options ready to be machined for the part listed, just call **888-SWAGE-NOW** with your specs and let DMC Power take care of the rest.



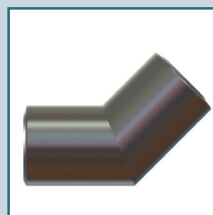
90° Angle



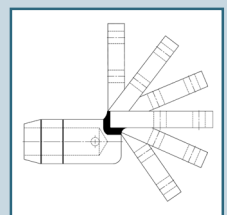
75° Angle



60° Angle



45° Angle

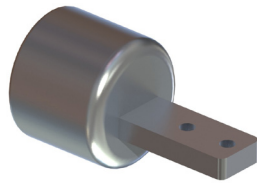


Custom Angles

PLK1855

2-HOLE CENTER FORMED
PAD TERMINAL

| | | |
|------------|--------|-----------|
| 1" - 6" | Pads | 3" Weight |
| 230kV | 2" | ~3 lbs |
| Cu CPL1855 | ANGLES | |



ORDERING EXAMPLE

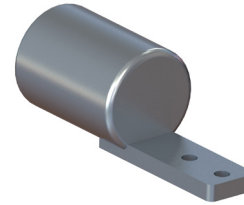
PLK1855D64

4" Aluminum Terminal with 2",
2-Hole Center Formed Pad

PLK1885

2-HOLE OFFSET
PAD TERMINAL

| | | |
|------------|--------|-----------|
| 1" - 6" | Pads | 3" Weight |
| 230kV | 2" | ~3 lbs |
| Cu CPL1885 | ANGLES | |



ORDERING EXAMPLE

PLK1885D24

1-1/2" Aluminum Terminal with
2", 2-Hole Offset Pad

PLK1865

2-HOLE 45°
PAD TERMINAL

| | | |
|------------|------|-----------|
| 1" - 6" | Pads | 3" Weight |
| 230kV | 2" | ~3 lbs |
| Cu CPL1865 | | |



ORDERING EXAMPLE

PLK1865D32

2" Aluminum Terminal with
2", 2-Hole 45° Pad

PLK1875

2-HOLE 90°
PAD TERMINAL

| | | |
|------------|------|-----------|
| 1" - 6" | Pads | 3" Weight |
| 230kV | 2" | ~3 lbs |
| Cu CPL1875 | | |



ORDERING EXAMPLE

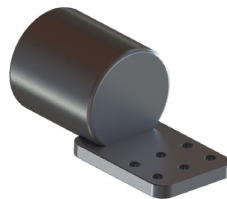
PLK1875D16

1" Aluminum Terminal with
2", 2-Hole 90° Pad

PLK1886

6-HOLE OFFSET
PAD TERMINAL

| | | | |
|-------------------------|-------------|-------|-----------|
| 1" - 3" | 3 1/2" - 6" | Pads | 3" Weight |
| 230kV | 500kV | 5"/6" | ~8 lbs |
| Cu CPL1886 | ANGLES | EHV | |
| PAD WIDTH A = 5" B = 6" | | | |



ORDERING EXAMPLE

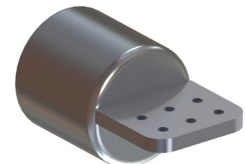
PLK1886D80 B

5" Aluminum Terminal
with 6", 6-Hole Offset Pad

PLK1856

6-HOLE CENTER FORMED
PAD TERMINAL

| | | | |
|-------------------------|-------------|-------|-----------|
| 1" - 3" | 3 1/2" - 6" | Pads | 3" Weight |
| 230kV | 500kV | 5"/6" | ~7 lbs |
| Cu CPL1856 | ANGLES | EHV | |
| PAD WIDTH A = 6" B = 5" | | | |



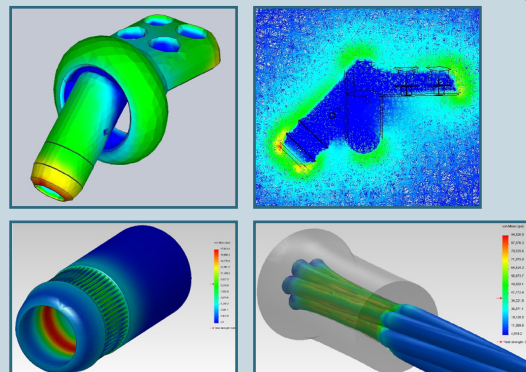
ORDERING EXAMPLE

PLK1856D96 A

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.



SUPERIOR DESIGN



PLK2210

SLIP/RIGID FIT SWAGED
BUS SUPPORT

1" - 6"
345kV
3" Weight
~10 lbs

Cu CPL2210

BOLT CIRCLES E1=3" E2=5" E3=7" E12=3"/5"

ORDERING EXAMPLE

Bolt
Circle

PLK2210D40 E12

2-1/2" Slip/Rigid Bus Support
with 3" & 5" Bolt Circles



PLK3210

EHV SLIP/RIGID FIT
SWAGED BUS SUPPORT

3" - 6"
500kV
3" Weight
~10 lbs

Cu CPL3210

EHV

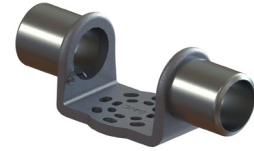
BOLT CIRCLES E12=3"/5" E23=5"/7"

ORDERING EXAMPLE

Bolt
Circle

PLK3210D80 E23

5" Slip/Rigid EHV Bus Support
with 5" & 7" Bolt Circles



PLK2200

SLIP FIT
BUS SUPPORT

1" - 6"
345kV
3" Weight
~5 lbs

Cu CPL2200

BOLT CIRCLES E1=3" E2=5" E3=7" E12=3"/5"

ORDERING EXAMPLE

Bolt
Circle

PLK2200D56 E3

2-1/2" Slip Fit Bus Support
with 7" Bolt Circle



PLK3200

EHV SLIP FIT
BUS SUPPORT

3" - 6"
500kV
3" Weight
~6 lbs

Cu CPL3200

EHV

BOLT CIRCLES E12=3"/5" E23=5"/7"

ORDERING EXAMPLE

Bolt
Circle

PLK3200D48 E12

3" Slip Fit EHV Bus Support
with 3" & 5" Bolt Circles



PLK2230

SLIP/RIGID FIT
BUS SUPPORT

1" - 6"
230kV
3" Weight
~7 lbs

Cu CPL2230

BOLT CIRCLES E1=3" E2=5" E3=7" E12=3"/5"

ORDERING EXAMPLE

Bolt
Circle

PLK2230D32 E12

2" Slip/Rigid Bus Support
with 3" & 5" Bolt Circles



PLK3230

EHV SLIP/RIGID FIT
BUS SUPPORT

3" - 6"
500kV
3" Weight
~7 lbs

Cu CPL3230

EHV

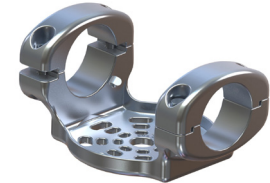
BOLT CIRCLES E123=3"/5"/7" E23=5"/7"

ORDERING EXAMPLE

Bolt
Circle

PLK3230D96 E23

6" Slip/Rigid EHV Bus Support
with 5" & 7" Bolt Circles



SUPERIOR DESIGN

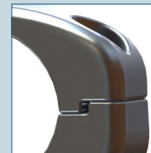


PLK2230 / PLK3230 Bus Support Features



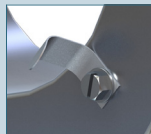
Slip Fit –

Loose fit that allows the bus to slide and expand.



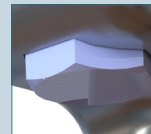
Rigid Fit –

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

1" - 6"
230kV

Pads
2" - 6"

3" Weight
~17 lbs

Cu CPL2600

ANGLES

PAD WIDTH E0=2" E1=4" E2=3" E3=5" E4=6"



ORDERING EXAMPLE

PLK2600D80 E3

5" Bus Expansion to
5", 4-Hole Pad

PLK3600

EHV BUS TO PAD EXPANSION

3" - 6"
500kV

Pads
3" - 6"

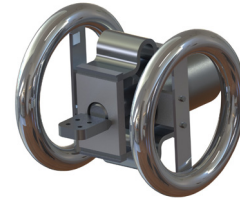
3" Weight
~31 lbs

Cu CPL3600

ANGLES

EHV

PAD WIDTH E1=4" E2=3" E3=5" E4=6"



ORDERING EXAMPLE

PLK3600D56 E2

3-1/2" EHV Bus Expansion
to 3", 4-Hole Pad

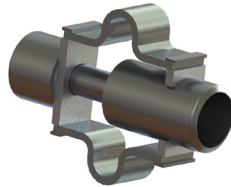
PLK2810

BUS TO BUS EXPANSION

1" - 6"
230kV

3" Weight
~18 lbs

Cu CPL2810



ORDERING EXAMPLE

PLK2810D16

1" Bus to Bus Expansion

PLK3810

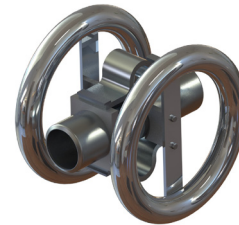
EHV BUS TO BUS EXPANSION

3" - 6"
500kV

3" Weight
~36 lbs

Cu CPL3810

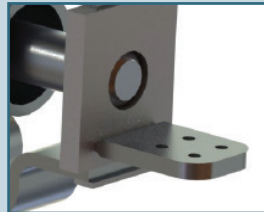
EHV



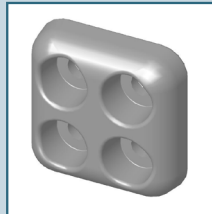
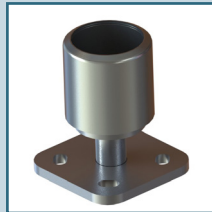
ORDERING EXAMPLE

PLK3810D80

5" EHV Bus to Bus
Expansion



**Bolt Shields, Mounting
Hardware, custom
designs and a wide
range of Vertical
Supports are also
available**



PLK2602

CONDENSED BUS TO PAD EXPANSION

1" - 6"
230kV

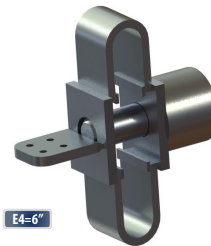
Pads
2" - 5"

3" Weight
~13 lbs

Cu CPL2602

ANGLES

PAD WIDTH E0=2" E1=4" E2=3" E3=5" E4=6"



ORDERING EXAMPLE

PLK2602D32 E2

2" Condensed Bus Expansion
to 3", 4-Hole Pad

PLK2700

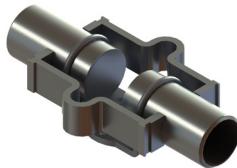
EXPANSION SUPPORT

1" - 6"
230kV

3" Weight
~23 lbs

Cu CPL2700

BOLT CIRCLES E1=3" E3=7" E12=3"/5" E23=5"/7"



ORDERING EXAMPLE

PLK2700D64 E12

4" Bus to Bus Expansion
Support with 3" & 5" Bolt Circles

PLK3700

EHV EXPANSION SUPPORT

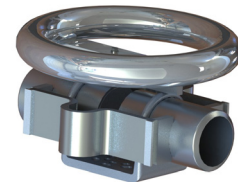
1" - 6"
500kV

3" Weight
~34 lbs

Cu CPL3700

EHV

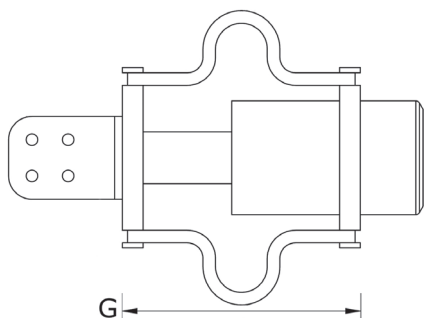
BOLT CIRCLES E1=3" E3=7" E12=3"/5" E23=5"/7"



ORDERING EXAMPLE

PLK3700D80 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.

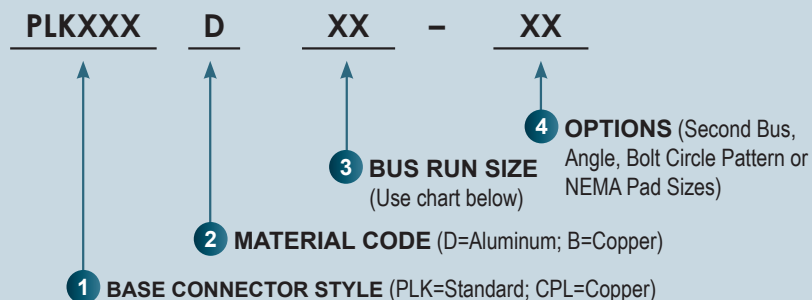
The "G" Dimension Movement in the chart below shows the movement range and installation point at a particular temperature. These are based on the assumption that the total length between rigid supports is 90 feet or less.

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

| Bus Temp. [°F] | Movement from Median | "G" Dimension Movement | | | | |
|-------------------|----------------------|--------------------------------|--|--------------------------------|--|---------------------|
| | | Bus Expansion Supports | | | Bus Expansion | Condensed Expansion |
| | | PLK2700DxxE12 PLK3700DxxE12 | PLK2700D80E1 PLK2700DxxE3 PLK3700D80E1 PLK3700DxxE3 | PLK2700D80E23 PLK3700D80E23 | PLK2600, PLK2601, PLK2610, PLK2701, PLK2810, PLK3600, PLK3601, PLK3610, PLK3701, PLK3810 | PLK2602 |
| -65 | -2.211 | 16.901 | 18.341 | 20.341 | 13.711 | 4.461 |
| -60 | -2.141 | 16.831 | 18.271 | 20.271 | 13.641 | 4.391 |
| -50 | -2.001 | 16.691 | 18.131 | 20.131 | 13.501 | 4.251 |
| -40 | -1.86 | 16.550 | 17.990 | 19.990 | 13.360 | 4.110 |
| -30 | -1.72 | 16.410 | 17.850 | 19.850 | 13.220 | 3.970 |
| -20 | -1.58 | 16.270 | 17.710 | 19.710 | 13.080 | 3.830 |
| -10 | -1.439 | 16.129 | 17.569 | 19.569 | 12.939 | 3.689 |
| 0 | -1.299 | 15.989 | 17.429 | 19.429 | 12.799 | 3.549 |
| 10 | -1.158 | 15.848 | 17.288 | 19.288 | 12.658 | 3.408 |
| 20 | -1.018 | 15.708 | 17.148 | 19.148 | 12.518 | 3.268 |
| 30 | -0.878 | 15.568 | 17.008 | 19.008 | 12.378 | 3.128 |
| 40 | -0.737 | 15.427 | 16.867 | 18.867 | 12.237 | 2.987 |
| 50 | -0.597 | 15.287 | 16.727 | 18.727 | 12.097 | 2.847 |
| 60 | -0.456 | 15.146 | 16.586 | 18.586 | 11.956 | 2.706 |
| 70 | -0.316 | 15.006 | 16.446 | 18.446 | 11.816 | 2.566 |
| 80 | -0.176 | 14.866 | 16.306 | 18.306 | 11.676 | 2.426 |
| 90 | -0.035 | 14.725 | 16.165 | 18.165 | 11.535 | 2.285 |
| 100 | 0.105 | 14.585 | 16.025 | 18.025 | 11.395 | 2.145 |
| 110 | 0.246 | 14.444 | 15.884 | 17.884 | 11.254 | 2.004 |
| 120 | 0.386 | 14.304 | 15.744 | 17.744 | 11.114 | 1.864 |
| 130 | 0.527 | 14.164 | 15.604 | 17.604 | 10.974 | 1.724 |
| 140 | 0.667 | 14.023 | 15.463 | 17.463 | 10.833 | 1.583 |
| 150 | 0.807 | 13.883 | 15.323 | 17.323 | 10.693 | 1.443 |
| 160 | 0.948 | 13.742 | 15.182 | 17.182 | 10.552 | 1.302 |
| 170 | 1.088 | 13.602 | 15.042 | 17.042 | 10.412 | 1.162 |
| 180 | 1.229 | 13.462 | 14.902 | 16.902 | 10.272 | 1.022 |
| 190 | 1.369 | 13.321 | 14.761 | 16.761 | 10.131 | 0.881 |
| 200 | 1.509 | 13.181 | 14.621 | 16.621 | 9.991 | 0.741 |
| 210 | 1.65 | 13.040 | 14.480 | 16.480 | 9.850 | 0.600 |
| 220 | 1.79 | 12.900 | 14.340 | 16.340 | 9.710 | 0.460 |
| 230 | 1.931 | 12.760 | 14.200 | 16.200 | 9.570 | 0.320 |
| 240 | 2.071 | 12.619 | 14.059 | 16.059 | 9.429 | 0.179 |
| 250 | 2.211 | 12.479 | 13.919 | 15.919 | 9.289 | 0.039 |
| 92.5 | 0 | 14.690 | 16.130 | 18.130 | 11.500 | 2.250 |

Median

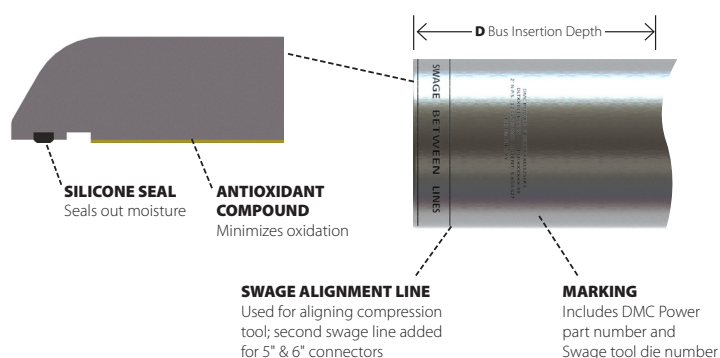
BUS CONNECTOR ORDERING NOMENCLATURE



STANDARD EXAMPLE:

| | | |
|-----------------|---------------|-----------|
| PLK1000 | D | 16 |
| ↑ Bus Splice | ↑ Aluminum | ↑ 1" |

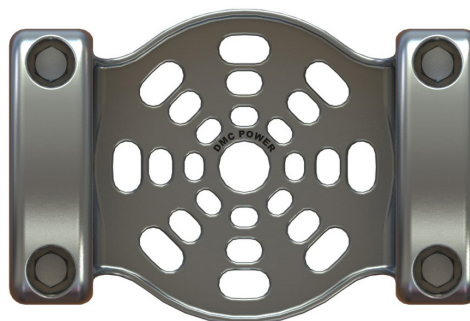
STANDARD BUS SIZES



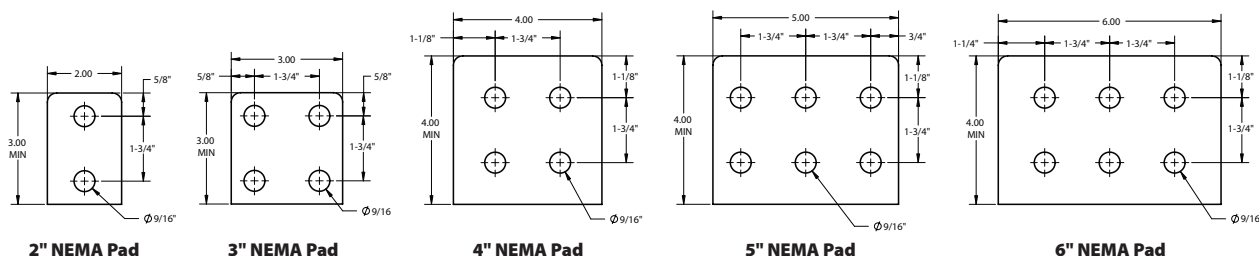
| DMC Size | Bus Size | Fitting O.D. | D Min. | D Max |
|----------|----------|--------------|--------|-------|
| 16 | 1" | 2.00 | 1.50 | 2.00 |
| 24 | 1-1/2" | 2.50 | 1.50 | 2.00 |
| 32 | 2" | 3.00 | 2.00 | 2.50 |
| 40 | 2-1/2" | 3.75 | 2.00 | 2.50 |
| 48 | 3" | 4.37 | 3.00 | 3.50 |
| 56 | 3-1/2" | 5.00 | 3.00 | 3.50 |
| 64 | 4" | 5.50 | 3.00 | 3.50 |
| 80 | 5" | 6.50 | 5.00 | 5.75 |
| 96 | 6" | 8.00 | 6.00 | 6.75 |

| Suffix | Circle Radius | Hole Size (8 holes/circle) | Plate Thickness |
|--------|----------------|---|-----------------|
| E1 | 3" | 9/16" x 13/16" | 1/2" |
| E2 | 5" | 11/16" x 1-1/16" | 1/2" |
| E3 | 7" | 13/16" x 1-1/2" | 1/2" |
| E12 | 3" 5" | 9/16" x 13/16" 11/16" x 1-1/16" | 3/4" |
| E23 | 5" 7" | 11/16" x 1-1/16" 13/16" x 1-1/2" | 3/4" |
| E123 | 3" 5" 7" | 9/16" x 13/16" 11/16" x 1-1/16" 13/16" x 1-1/2" | 3/4" |

STANDARD BOLT CIRCLE DIMENSIONS



STANDARD NEMA PAD DIMENSIONS*



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

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

| | |
|------------------------------|--|
| ANSI C119.4 | Tensile: 30%-53% (Min/Max) of conductor strength; 5% required for Class 3 connectors Current Cycle: 500 cycles (class A); met all thermal & resistance requirements Pre-existing Cable: After tapping into run, Swaged cable retained 90% of rated strength |
| ASTM B117 | Salt Fog: 1,000 hours passed |
| NEMA CC1 | RIV/Corona: Up to 500 kV with factor of safety on applicable fittings Temp Rise & Resistance: Runs cooler than cable at 100%, 125% & 150% of ratings requirements |
| Customer Requirements | Short Circuit Tests: Pass 3 second short-time & 15 cycle peak withstand tests |

CPLK9100**1-HOLE CENTER FORMED
PAD TERMINAL**

| | | |
|-----------------------|-------------------|-------------------------------|
| Up to 230kV | Pads 2" | 2" OD Weight ~3 lbs |
| Cu CCL9100 | ANGLES | |

**ORDERING EXAMPLE****CPLK9100D00040**4/0 Oxlip AAC Barrel to 1", 1-Hole
Center Formed Pad; Aluminum**CPLK9200****2-HOLE CENTER FORMED
PAD TERMINAL**

| | | |
|-----------------------|-------------------|-------------------------------|
| Up to 230kV | Pads 2" | 2" OD Weight ~3 lbs |
| Cu CCL9200 | ANGLES | |

**ORDERING EXAMPLE****CPLK9200D07000**700 Flag AAC Barrel to 2", 2-Hole
Center Formed Pad; Aluminum**CPLK9202****2-HOLE OFFSET
PAD TERMINAL**

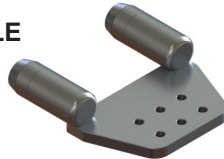
| | | |
|-----------------------|-------------------|-------------------------------|
| Up to 230kV | Pads 2" | 2" OD Weight ~3 lbs |
| Cu CCL9202 | ANGLES | |

**ORDERING EXAMPLE****CPLK9202D15105**1351.5 Martin ACSR Barrel to 2",
2-Hole Offset Pad; Aluminum**CPLK9209****2-HOLE 90°
PAD TERMINAL**

| | | |
|-----------------------|-------------------|-------------------------------|
| Up to 230kV | Pads 2" | 2" OD Weight ~3 lbs |
| Cu CCL9209 | ANGLES | |

**ORDERING EXAMPLE****CPLK9209D03975**336.4 Linnet ACSR Barrel to 2",
2-Hole 90° Pad; Aluminum**CPLK9662****DUAL BARRELS TO 6-HOLE
OFFSET PAD TERMINAL**

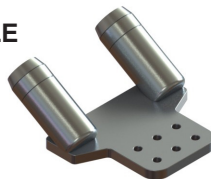
| | | |
|-----------------------|----------------------|-------------------------------|
| Up to 345kV | Pads 5"/6" | 2" OD Weight ~7 lbs |
| Cu CCL9662 | 5" CPLK9652 | ANGLES |

**ORDERING EXAMPLE****CPLK9662D20000**Dual 2000 Cowslip AAC Barrels to
6", 6-Hole Offset Pad; Aluminum**CPLK9664****DUAL BARRELS TO 6-HOLE
45° PAD TERMINAL**

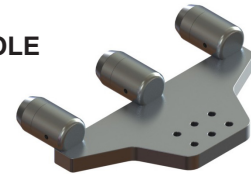
| | | |
|-----------------------|----------------------|-------------------------------|
| Up to 345kV | Pads 5"/6" | 2" OD Weight ~7 lbs |
| Cu CCL9664 | 5" CPLK9654 | ANGLES |


**ORDERING EXAMPLE****CPLK9664D22500**Dual 2156 Bluebird ACSR Barrels to
6", 6-Hole 45° Pad; Aluminum**CPLK9663****DUAL BARRELS TO 6-HOLE
30° PAD TERMINAL**

| | | |
|-----------------------|----------------------|-------------------------------|
| Up to 345kV | Pads 5"/6" | 2" OD Weight ~7 lbs |
| Cu CCL9663 | 5" CPLK9653 | ANGLES |

**ORDERING EXAMPLE****CPLK9663D17500**Dual 1750 Jessamine AAC Barrels to
6", 6-Hole 30° Pad; Aluminum**CPLK9672****TRIPLE BARRELS TO 6-HOLE
OFFSET PAD TERMINAL**

| | | |
|-----------------------|----------------------|--------------------------------|
| Up to 345kV | Pads 5"/6" | 2" OD Weight ~10 lbs |
| Cu CCL9672 | ANGLES | |

**ORDERING EXAMPLE****CPLK9672D15900**Three 1590 Coreopsis AAC Barrels
to 6", 6-Hole Offset Pad; Aluminum**CUSTOM PAD WIDTHS**

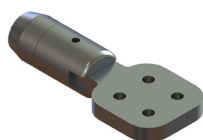
Many of our connectors have alternative part numbers for different standard pad widths. Look for this icon  3" CPLK### underneath the item to see the alternative pad size and standard part number. Of course ANY custom pad configuration can be designed, so if you don't see it just ask!



CPLK94404-HOLE CENTER FORMED
PAD TERMINALUp to
230kVPads
3"/4"2" OD Weight
~5 lbs

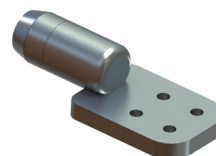
Cu CCL9440 3" CPLK9430 ANGLES CEHV9440

ORDERING EXAMPLE

CPLK9440D000202/0 Aster ACC Barrel to 4", 4-Hole
Center Formed Pad; Aluminum**CPLK9442**4-HOLE OFFSET
PAD TERMINALUp to
345kVPads
3"/4"2" OD Weight
~5 lbs

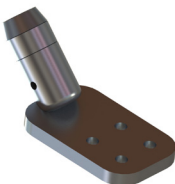
Cu CCL9442 3" CPLK9432 ANGLES CEHV9442

ORDERING EXAMPLE

CPLK9442D135151272 Bittern ACSR Barrel to 4",
4-Hole Offset Pad; Aluminum**CPLK9444**4-HOLE 45° PAD
TERMINALUp to
345kVPads
3"/4"2" OD Weight
~5 lbs

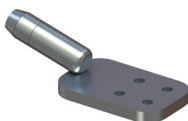
Cu CCL9444 3" CPLK9434 ANGLES CEHV9444

ORDERING EXAMPLE

CPLK9444D07500750 Cattail AAC Barrel to 4",
4-Hole 45° Pad; Aluminum**CPLK9449**4-HOLE 90° PAD
TERMINALUp to
230kVPads
3"/4"2" OD Weight
~5 lbs

Cu CCL9449 3" CPLK9439 ANGLES CEHV9449

ORDERING EXAMPLE

CPLK9449D225002167 Kiwi ACSR Barrel to 4",
4-Hole 90° Pad; Aluminum**ALSO AVAILABLE:**Copper, EHV, custom pads, angles and other configurations available. Visit the product page on DMCPower.com for details.**CPLK9445**4-HOLE 15° PAD
TERMINAL**CPLK9987**LONG BARREL TO 4-HOLE
45° PAD TERMINAL**CPLK9945**DUAL BARRELS TO 4-HOLE
15° OFFSET PAD TERMINAL**CPLK9984**EXTENDED 4-HOLE
90° PAD TERMINAL**SUPERIOR
DESIGN**

DMC Connector (center)

**ITS ALL ABOUT THE PADS**

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*

CPLK9642

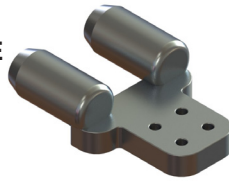
DUAL BARRELS TO 4-HOLE
OFFSET PAD TERMINAL

Up to
345kV

Pads
3"/4"

2" OD Weight
~ 6 lbs

Cu CCL9642 3" CPLK9632 ANGLES CEHV9642



ORDERING EXAMPLE

CPLK9642D12720

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

CPLK9644

DUAL BARRELS TO 4-HOLE
45° PAD TERMINAL

Up to
345kV

Pads
3"/4"

2" OD Weight
~ 6 lbs

Cu CCL9644 3" CPLK9634 ANGLES CEHV9644



ORDERING EXAMPLE

CPLK9644D11130

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

CPLK9649

DUAL BARRELS TO 4-HOLE
90° PAD TERMINAL

Up to
230kV

Pads
3"/4"

2" OD Weight
~ 6 lbs

Cu CCL9649 3" CPLK9639 ANGLES CEHV9649



ORDERING EXAMPLE

CPLK9649D22500

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

CPLK9982

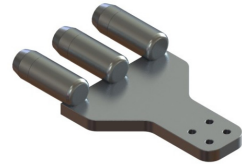
TRIPLE BARRELS TO 4-HOLE
OFFSET PAD TERMINAL

Up to
345kV

Pads
4"/6"

2" OD Weight
~ 9 lbs

Cu CCL9982 6" CPLK9672 ANGLES



ORDERING EXAMPLE

CPLK9982D13515

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

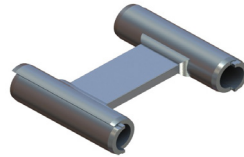
CL702

PARALLEL CABLE
SPACER

Up to
500kV

2" OD Weight
~3 lbs

Cu CCL702 SPLIT EHV



ORDERING EXAMPLE

CL702D09540-8

Dual 954 Magnolia AAC Cables Spaced 8"; Aluminum

Cable Run Size
Spacing Inches

CL714

PARALLEL CABLE SPACER TO
TRANSVERSE 4-HOLE PAD

Up to
500kV

Pads
3"/4"

2" OD Weight
~ 5 lbs

Cu CCL714 3" CL713 SPLIT EHV



ORDERING EXAMPLE

CL714D22500-18

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

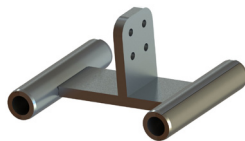
Cable Run Size
Spacing Inches



ALSO AVAILABLE:

CL715

CABLE SPACER TO
LONGITUDINAL PAD




CL773

TRIFURCATING
CABLE SPACER



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  CCL### 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.

APPLICATION NOTES



CL720 CABLE SPLICE

Up to
500kV
2" OD Weight
~1 lb
Cu CCL720 EHV



ORDERING EXAMPLE

CL720D03975

397.5 Canna AAC Cable Splice; Aluminum

CL731 SPLIT RUN TAP

Up to
500kV
2" OD Weight
~2 lbs
Cu CCL731 SPLIT ANGLES EHV



ORDERING EXAMPLE

CL731D07950-00040

795 Lilac AAC Cable Run to 4/0 Oxlip AAC Cable Tap; Aluminum

Cable Run Size
Cable Tap Size

CPLK9584 SPLIT RUN TO 4-HOLE TRANSVERSE PAD TEE

Up to
500kV
3" Pads
3" 7/4" 2" OD Weight
~5 lbs
Cu CCL9584 3" CPLK9583 SPLIT EHV



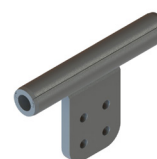
ORDERING EXAMPLE

CPLK9584D02668

266.8 Waxwing ACSR Split Run to 4", 4-Hole Transverse Pad Tee; Aluminum

CPLK9514 SPLIT RUN TO 4-HOLE LONGITUDINAL PAD TEE

Up to
500kV
3" Pads
3" 7/4" 2" OD Weight
~5 lbs
Cu CCL9514 3" CPLK9513 SPLIT EHV



ORDERING EXAMPLE

CPLK9514D00040

3/0 Pigeon ACSR Split Run to 4", 4-Hole Longitudinal Pad Tee; Aluminum

CL994 U-SHAPED GROUND STIRRUP

2" OD Weight
~10 lbs
Cu COPPER SPLIT TIN PLATING



ORDERING EXAMPLE

CL994B07500-04500

750 MCM Bare Copper Split Run with 3/4" U-Shaped Ground Rod

Copper Cable Run*
Copper Rod Size
(04500=3/4")

CL995 V-SHAPED GROUND STIRRUP

2" OD Weight
~11 lbs
Cu COPPER SPLIT TIN PLATING



ORDERING EXAMPLE

CL995B15000-04500

1500 MCM Bare Copper Split Run with 3/4" V-Shaped Ground Rod

Copper Cable Run*
Copper Rod Size
(04500=3/4")

CL761 SPLIT RUN GROUND STIRRUP

2" OD Weight
~3 lbs
Cu CCL761 SPLIT



ORDERING EXAMPLE

CL761D22500

2250 Sagebrush AAC Split Run with Ground Stirrup; Aluminum

CL993 FLEX CABLE GROUND LOOP

2" OD Weight
~8 lbs
Cu COPPER SPLIT TIN PLATING



ORDERING EXAMPLE

CL993B00040-02500

4/0 AWG Bare Copper Split Run with 250 MCM Bare Copper Flex Loop

Copper Cable Run*
Ground Loop
Cable Size*

* See chart on page 30 for Copper Cable Connector Identifier Numbers

ROPELAY CABLE AND METRIC SIZES AVAILABLE



Ropelay Cable

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!



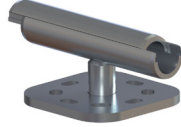
CL451**SPLIT RUN SINGLE CABLE SUPPORT**

Up to
345kV

2" OD Weight
~5 lbs

Cu CCL451 SPLIT

BOLT CIRCLES E1=3" E2=5" E3=7"

**ORDERING EXAMPLE****CL451D09000 E3** — Bolt Circle

795 Drake ACSR Split Run Cable Support with 7" Bolt Circle; Aluminum

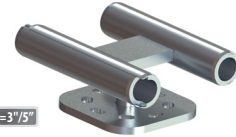
CL452**SPLIT RUN DUAL CABLE SUPPORT**

Up to
500kV

2" OD Weight
~7 lbs

Cu CCL452 SPLIT EHV

BOLT CIRCLES E1=3" E2=5" E3=7" E12=3"/5"

**ORDERING EXAMPLE****CL452D12720 E1** — Bolt Circle

1272 Narcissus AAC Split Run Dual Cable Support with 3" Bolt Circle; Aluminum

CL430**BUS TO CABLE TAP**

Up to
500kV

2" OD Weight
~3 lbs

Cu CCL430 CL431 ANGLES CAPPED EHV

**ORDERING EXAMPLE****CL430D48-07950** — Bus Run Size
Cable Tap Size

3" Bus Run to 795 Lilac AAC Tap; Aluminum

CL432**BUS TO DUAL CABLE TAPS**

Up to
500kV

2" OD Weight
~4 lbs

Cu CCL432 CL433 ANGLES CAPPED EHV

**ORDERING EXAMPLE****CL432D40-18000** — Bus Run Size
Cable Tap Size

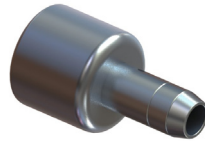
2-1/2" Bus Run to Dual 1590 Falcon ACSR Taps; Aluminum

CL400**BUS TO CABLE COUPLER**

Up to
500kV

2" OD Weight
~2 lbs

Cu CCL400 ANGLES EHV

**ORDERING EXAMPLE****CL400D32-11130** — Bus Run Size
Cable Tap Size

2" Bus Coupler to 1113 Marigold AAC Tap; Aluminum

CL404**BUS TO 45° CABLE COUPLER**

Up to
500kV

2" OD Weight
~2 lbs

Cu CCL404 ANGLES EHV

**ORDERING EXAMPLE****CL404D80-09000** — Bus Run Size
Cable Tap Size

5" Bus Coupler to 795 Drake ACSR 45° Tap; Aluminum

CL420**BUS TO DUAL IN-LINE CABLE TAPS**

Up to
500kV

2" OD Weight
~3 lbs

Cu CCL420 ANGLES EHV

**ORDERING EXAMPLE****CL420D80-25000** — Bus Run Size
Cable Tap Size

5" Bus Coupler to Dual 2500 Lupine AAC In-Line Taps; Aluminum

CL489**BUS TO TRIPLE SIDE FORMED CABLE TAPS**

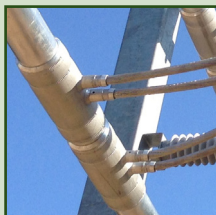
Up to
500kV

2" OD Weight
~4 lbs

Cu CCL489 ANGLES EHV

**ORDERING EXAMPLE****CL489D96-25000** — Bus Run Size
Cable Tap Size

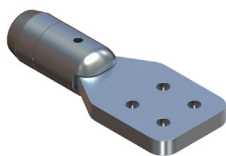
6" Bus to Three 2312 Thrasher ACSR Side Formed Taps; Aluminum

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.

CEHV9440EHV 4-HOLE CENTER
FORMED PAD TERMINALUp to
345kV 2" OD Weight
~2 lbs

ORDERING EXAMPLE

CEHV9440D127201272 Narcissus AAC Barrel to 4",
4-Hole Center Formed Pad; EHV**CEHV9442**EHV 4-HOLE OFFSET
PAD TERMINALUp to
500kV 2" OD Weight
~6 lbs

ORDERING EXAMPLE

CEHV9442D225002156 Bluebird ACSR Barrel to 4",
4-Hole Offset Pad; EHV**CEHV9444**EHV 4-HOLE 45° PAD
TERMINALUp to
500kV 2" OD Weight
~6 lbs

ORDERING EXAMPLE

CEHV9444D100001000 Hawkweed AAC Barrel to 4",
4-Hole 45° Pad; EHV**CEHV9642**EHV DUAL BARRELS TO 4-HOLE
CENTER FORMED PAD TERMINALUp to
500kV 2" OD Weight
~10 lbs

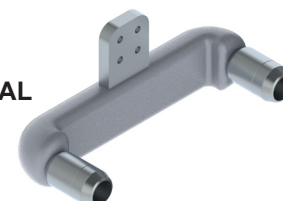
ORDERING EXAMPLE

CEHV9642D22500Dual 2250 Sagebrush AAC Barrels to
4", 4-Hole Center Formed Pad; EHV**CEHV9644**EHV DUAL BARRELS TO
4-HOLE 45° PAD TERMINALUp to
500kV 2" OD Weight
~11 lbs

ORDERING EXAMPLE

CEHV9644D22500Dual 2156 Bluebird ACSR Barrels to 4",
4-Hole 45° Pad; EHV**CEHV9649**EHV DUAL BARRELS TO
4-HOLE 90° PAD TERMINALUp to
500kV 2" OD Weight
~12 lbs

ORDERING EXAMPLE


CEHV9649D09540Dual 900 Ruddy ACSR Barrels to 4",
4-Hole 90° Pad; EHV

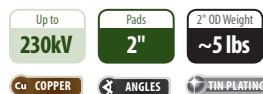
- Bolt shields and corona rings are available
- Check with factory on cable sizes, spacing and for special EHV applications

APPLICATION
NOTES**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**

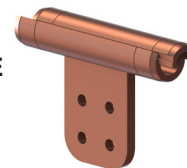
Look for this symbol  below the parts to know they are rated for certain EHV applications or let us design a custom EHV connector for your specific needs.

CCL9202**COPPER 2-HOLE OFFSET PAD TERMINAL****ORDERING EXAMPLE****CCL9202B05000**

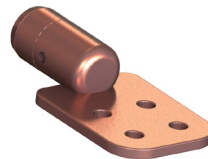
500 MCM Bare Copper Barrel to 2", 2-Hole Offset Pad

**CCL9514****COPPER SPLIT RUN TO 4-HOLE LONGITUDINAL PAD TEE****ORDERING EXAMPLE****CCL9514B00040**

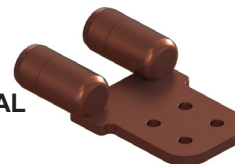
4/0 AWG Bare Copper Split Run to 4", 4-Hole Longitudinal Pad Tee

**CCL9442****COPPER 4-HOLE OFFSET PAD TERMINAL****ORDERING EXAMPLE****CCL9442B20000**

2000 MCM Bare Copper Barrel to 4", 4-Hole Offset Pad

**CCL9642****COPPER DUAL BARRELS TO 4-HOLE OFFSET PAD TERMINAL****ORDERING EXAMPLE****CCL9642B10000**

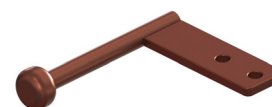
Dual 1000 MCM Bare Copper Barrels to 4", 4-Hole Offset Pad

**CCL731****COPPER SPLIT RUN TAP****ORDERING EXAMPLE****CCL731B07500-00040**

750 MCM Bare Copper Split Run to 4/0 AWG Bare Copper Tap

**CCL1163****COPPER GROUND STUD TO 2-HOLE PAD****ORDERING EXAMPLE****CCL1163B90 E3**

3/4" Ground Stud to 2" Wide, 6" Long, 2-Hole 90° Pad




• Add "T" to the end of any part number for Tin Plating

PROTECT YOUR INVESTMENT WITH TIN PLATING

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.

CUSTOM SOLUTIONS

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.

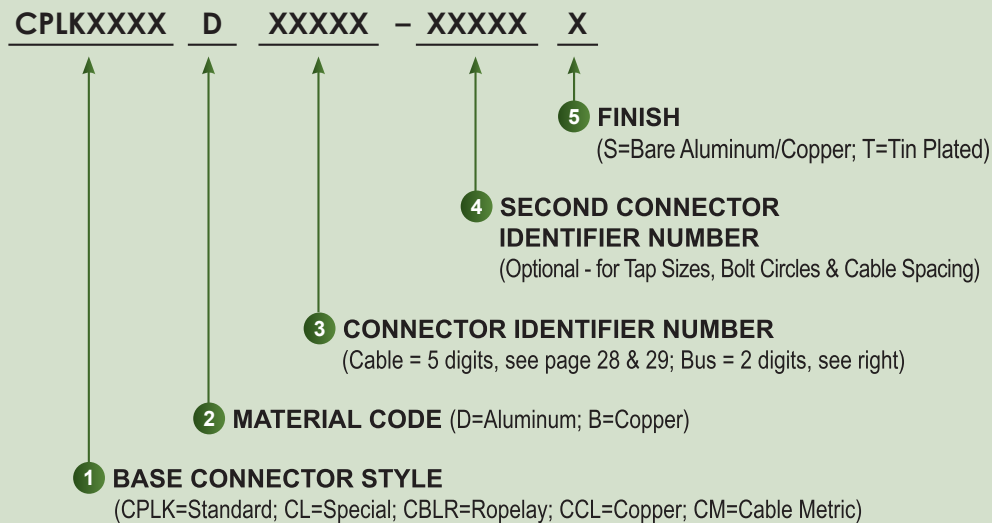
- 1 Find the AAC/ACSR conductor being used
- 2 Use the corresponding Connector Identifier Number to fill out the part number, see page 30
- 3 Note the Head Assembly size based on the Connector Identifier Number

| AAC CONDUCTOR | | | ACSR CONDUCTOR | | | Connector Identifier Number | CONNECTOR | |
|---------------|-------------|------------|----------------|---------------|-----------|-----------------------------|----------------|-------|
| SIZE (kcmil) | STR (Al/St) | CODE WORD | SIZE (kcmil) | STR (# Wires) | CODE WORD | | HEAD ASSEMBLY* | O.D. |
| #6 | 7/w | Peachbell | #6 | 6/1 | Turkey | 00006 | DLT45CLHA00004 | 0.500 |
| #4 | 7/w | Rose | #5 | 6/1 | Thrush | 00004 | | |
| #2 | 7/w | Iris | #4 | 6/1 | Swan | 00002 | DLT45CLHA00010 | 0.750 |
| #1 | 7/w | Pansey | | 7/1 | Swanate | | | |
| | | | #2 | 6/1 | Sparrow | 00001 | | |
| | | | | 7/1 | Sparate | | | |
| 1/0 | 7/w | Poppy | #1 | 6/1 | Robin | 00010 | DLT45CLHA02500 | 1.000 |
| 2/0 | 7/w | Aster | 1/0 | 6/1 | Raven | 00020 | | |
| 3/0 | 7/w | Phlox | 2/0 | 6/1 | Quail | 00030 | | |
| 4/0 | 7/w | Oxlip | 3/0 | 6/1 | Pigeon | 00040 | | |
| 250.0 | 7/w | Sneezewort | 4/0 | 6/1 | Penguin | 02500 | | |
| | 7/w | Valerian | | | | | DLT45CLHA03975 | 1.250 |
| 266.8 | 7/w | Daisy | 266.8 | 18/1 | Waxwing | 02668 | | |
| | 19/w | Laurel | | 26/7 | Partridge | 03000 | | |
| 300.0 | 19/w | Peony | 300.0 | 26/7 | Ostrich | 03500 | | |
| 336.4 | 19/w | Tulip | | 18/1 | Merlin | | | |
| 350.0 | 19/w | Daffodil | 336.4 | 26/7 | Linnet | 03975 | | |
| 397.5 | 19/w | Canna | | 30/7 | Oriole | | | |
| | | | 397.5 | 18/1 | Chickadee | | | |
| 450.0 | 19/w | Goldentuft | 397.5 | 24/7 | Brant | 04500 | DLT45CLHA05565 | 1.500 |
| | | | | 26/7 | Ibis | | | |
| 477.0 | 19/w | Cosmos | | 30/7 | Lark | 04770 | | |
| | 37/w | Syringa | | | | | | |
| 500.0 | 19/w | Zinnia | 477.0 | 18/1 | Pelican | 05000 | | |
| | 37/w | Hyacinth | | 24/7 | Flicker | 05565 | | |
| 556.5 | 19/w | Dahlia | | 26/7 | Hawk | | | |
| | 37/w | Mistletoe | | | | | | |

| AAC CONDUCTOR | | | ACSR CONDUCTOR | | | Connector Identifier Number | CONNECTOR | | | |
|---------------|-------------|-------------|----------------|---------------|-----------|-----------------------------|-----------------|-------|-----------------|-------|
| SIZE (kcmil) | STR (Al/St) | CODE WORD | SIZE (kcmil) | STR (# Wires) | CODE WORD | | HEAD ASSEMBLY* | O.D. | | |
| 600.0 | 37/w | Meadowsweet | 477.0 | 30/7 | Hen | 06000 | DLT45CLHA07155 | 1.750 | | |
| 636.0 | 37/w | Orchid | 556.5 | 18/1 | Osprey | 06360 | | | | |
| 700.0 | 37/w | Verbena | | 24/7 | Parakeet | | | | | |
| | | | | 26/7 | Dove | | | | | |
| | | | 30/7 | Eagle | 07000 | | | | | |
| 715.5 | 37/w | Violet | 636.0 | 18/1 | | Kingbird | | | 07000 | |
| | 61/w | Flag | | 36/1 | | Swift | | | | |
| | 37/w | Nasturtium | 605.0 | 24/7 | Peacock | 07155 | | | | |
| | 61/w | | | 26/7 | Squab | | | | | |
| 750.0 | 37/w | Petunia | 605.0 | 30/7 | WoodDuck | 07500 | DLT45CLHA08745 | 1.875 | | |
| | 61/w | Cattail | | 30/19 | Teal | | | | | |
| | | | | 24/7 | Rook | | | | 636.0 | 26/7 |
| 795.0 | 37/w | Arbutus | 30/7 | Scoter | 07950 | | | | | |
| | | | 30/19 | Egret | | | | | | |
| | | | 24/7 | Flamingo | | | | | | |
| | 61/w | Lilac | 26/7 | Gannet | | | | | | |
| | | | 24/7 | Stilt | | | | | | |
| | | | 54/7 | Crow | | | | | | |
| | | | 36/1 | Coot | | | | | | |
| 874.5 | 37/w | Anemone | 45/7 | Tern | 08745 | | | | | |
| | 61/w | Crocus | 26/7 | Starling | | | | | | |
| | | | 30/19 | Redwing | | | | | | |
| 900.0 | 37/w | Cockscomb | 795.0 | 24/7 | Cuckoo | 09000 | | | DLT45CLHA11130 | 2.000 |
| | 61/w | Snapdragon | | 54/7 | Condor | | | | | |
| 954.0 | 37/w | Magnolia | | 26/7 | Drake | 09540 | | | | |
| | 61/w | Goldenrod | 30/19 | Mallard | | | | | | |
| 1000.0 | 37/w | Hawkweed | 900.0 | 45/7 | Ruddy | 10000 | | | | |
| | 61/w | Camellia | 874.5 | 54/7 | Crane | | | | | |
| | | | 45/7 | Rail | | | | | | |
| 1033.5 | 37/w | Bluebell | 954.0 | 54/7 | Cardinal | 10335 | | | | |
| 61/w | Larkspur | | | | | | | | | |
| 1113.0 | 61/w | Marigold | 1033.5 | 45/7 | Ortolan | 11130 | | | | |
| | | | | 54/7 | Curlew | | | | | |
| 1192.5 | 61/w | Hawthorn | 1113.0 | 45/7 | Bluejay | 11925 | DLT45CLHA15900 | 2.250 | | |
| 1272.0 | 61/w | Narcissus | | 54/19 | Finch | 12720 | | | | |
| 1351.5 | 61/w | Columbine | 1192.5 | 45/7 | Bunting | 13515 | | | | |
| | | | 54/19 | Grackle | | | | | | |
| 1431.0 | 61/w | Carnation | 1272.0 | 45/7 | Bittern | 14310 | | | | |
| | | | 54/19 | Pheasant | | | | | | |
| 1510.5 | 61/w | Gladiolus | 1351.5 | 45/7 | Dipper | 15105 | | | | |
| | | | 54/19 | Martin | | | | | | |
| 1590.0 | 61/w | Coreopsis | 1431.0 | 45/7 | Bobolink | 15900 | | | | |
| | | | 54/19 | Plover | | | | | | |
| 1750.0 | 61/w | Jessamine | 1510.5 | 45/7 | Nuthatch | 17500 | | | | |
| | | | 54/19 | Parrot | | | | | | |
| | | | 45/7 | Lapwing | 18000 | | | | | |
| | | | 1590.0 | 54/19 | | Falcon | | | | |
| 2000.0 | 91/w | Cowslip | 1780.0 | 84/19 | Chukar | 20000 | | | DLT58CLHA25000* | 2.750 |
| 2250.0 | 91/w | Sagebrush | 2156.0 | 84/19 | Bluebird | 22500 | | | | |
| | | | 2167.0 | 72/7 | Kiwi | | | | | |
| 2303.5 | 91/w | | | | | 23000 | | | | |
| 2500.0 | 91/w | Lupine | 2312.0 | 76/19 | Thrasher | 25000 | DLT58CLHA40000* | 3.250 | | |
| 3000.0 | 127/w | Trillium | | | | 30000 | | | | |
| 3500.0 | 127/w | Bluebonnet | | | | 35000 | | | | |
| 4326.9 | 127/w | Nightshade | | | | 43269 | | | | |

*DLT58- Heads Assemblies use the **DLT58MAPW0000** Power Unit; DLT45- Head Assemblies use the **DLT45MAPW0000** Power Unit

CABLE CONNECTOR ORDERING NOMENCLATURE



| BUS SIZES | | |
|-----------|-----------|--------------|
| DMC SIZE | PIPE SIZE | FITTING O.D. |
| 12 | 3/4" | 2.000 |
| 16 | 1" | 2.000 |
| 20 | 1-1/4" | 2.500 |
| 24 | 1-1/2" | 2.500 |
| 32 | 2" | 3.000 |
| 40 | 2-1/2" | 3.750 |
| 48 | 3" | 4.375 |
| 56 | 3-1/2" | 5.000 |
| 64 | 4" | 5.500 |
| 80 | 5" | 6.500 |
| 96 | 6" | 8.000 |

| STANDARD EXAMPLE: | | | |
|--------------------------------|-----------------------------------|-----------------------|----------|
| CPLK9209 | D | 00006 | S |
| ↑ 2-Hole 90° Terminal | ↑ #6 Peachbell AAC Cable | ↑ Bare Aluminum | |

| BUS TO CABLE EXAMPLE: | | | | |
|------------------------------|--------------------|-------------------------------------|-----------------|----------|
| CL400 | D | 64 | - 11130 | T |
| ↑ Bus to Cable Coupler | ↑ 4" Bus Run | ↑ 1033.5 Curlew ACSR Cable | ↑ Tin Plated | |

| COPPER CABLE EXAMPLE: | | | |
|--|------------------------------|--------------------|----------|
| CCL9442 | B | 04500 | T |
| ↑ Copper 4-Hole Offset Terminal | ↑ 450/AWG Copper Cable | ↑ Tin Plated | |

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



| BARE COPPER CONDUCTOR CONCENTRIC LAY STRANDED | | Connector Identifier Number |
|--|---------|-----------------------------------|
| SIZE (AWG / kcmil) | STR | |
| 1/0 | 19 | 00010 |
| 2/0 | 19 | 00020 |
| 3/0 | 19 & 37 | 00030 |
| 4/0 | 19 | 00040 |
| 250 | 19 & 37 | 02500 |
| 300 | 37 | 03000 |
| 350 | 37 | 03500 |
| 400 | 37 | 04000 |
| 450 | 19 | 04500 |
| 500 | 37 & 61 | 05000 |

| BARE COPPER CONDUCTOR CONCENTRIC LAY STRANDED | | Connector Identifier Number |
|--|-----------|-----------------------------------|
| SIZE (AWG / kcmil) | STR | |
| 600 | 61 | 06000 |
| 650 | 37 | 06500 |
| 700 | 61 | 07000 |
| 750 | 61 & 91 | 07500 |
| 800 | 61 | 08000 |
| 900 | 37 | 09000 |
| 1000 | 61 & 91 | 10000 |
| 1250 | 91 & 127 | 12500 |
| 1500 | 91 & 127 | 15000 |
| 1750 | 61 & 127 | 17500 |
| 2000 | 127 & 169 | 20000 |

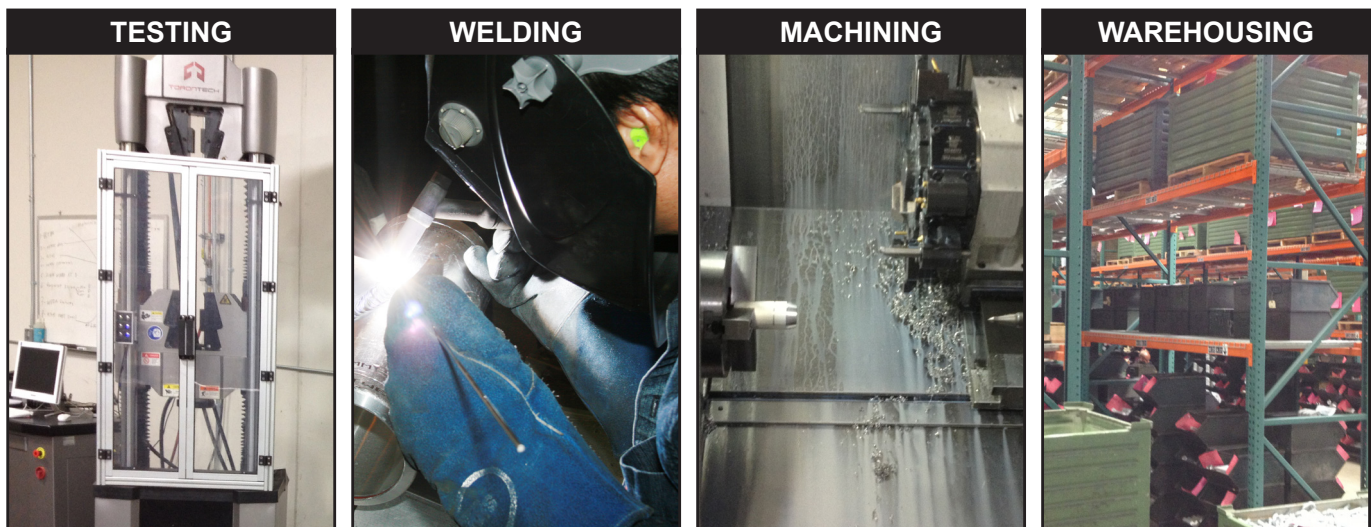
IF YOU NEED IT, WE CAN BUILD IT.



- Custom designed fittings for any size job
- Quick turn-around time

- Low minimum order quantity
- Worldwide shipping

Our in-house engineering, test lab and manufacturing facilities allow DMC Power to move fast and deliver quick turn jobs before most companies will even give you a response. Our flexibility and ability to make any part, of any size and any dimension is an advantage you simply won't find anywhere else.



THESE ARE JUST A FEW OF THE CUSTOM CONNECTORS WE'VE BUILT FOR OUR CUSTOMERS:

Adjustable
Terminal Elbow



Triple Cable to
4-Hole Pad



Flat Cable Coupler



Ground Jumper
Assembly



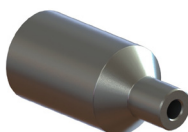
Split Cable Run to
Bus Tap



Dual Size
Barrel Tap



Internal Vibration
Dampener



Split Tee Run to
22.5° Tap



Dual Pad Terminal



Bus Support Tee



GROUND CONNECTORS

- C11000 electrolytic, unrecycled copper
- Cable from #6 AWG – 1000MCM
- Rod or Rebar from 3/8" – 1"
- Tin Plating available on all parts
- Pre-drilled inspection/weep hole
- IEEE & UL Qualified

CONNECTIONS THAT BREAK THE MOLD

Electrical utilities, wind and solar farms, large scale grounding projects and countless industrial projects around the world trust the tested strength and technology of the DMC Power Swage System.

Designed to meet and exceed the rigorous testing requirements of IEEE 837, our robust grounding connectors give your projects a lifetime of worry free connections and a permanent low-resistance path to ground, no matter the weather or soil conditions.

Discover the DMC Power Difference

• ULTIMATE PERFORMANCE

Made with C11000 copper and the ability to carry the equivalent current (or greater) of the conductor, our connectors have conductivity ratings at 101% IACS, ensuring your substation has the highest level of performance and reliability possible.

• FAST & CONVENIENT

All-weather operation reduces setup time and costly delays. Besides our tooling and connectors, no additional installation equipment, extra material, molds or shots are required.

• VERSATILE TOOLING

Depending on the O.D., the same Power Unit & Head Assembly used with our Grounding Connectors can also be used with our line of Cable Connectors.

• SAFE & RELIABLE

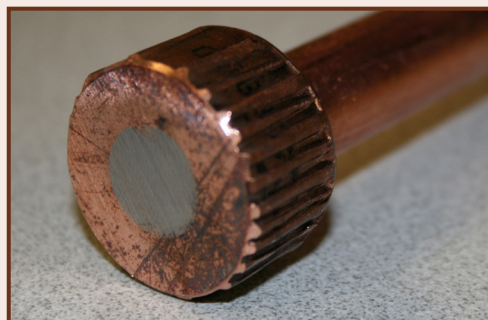
Push-button operation is simple, consistent and repeatable. Cold compression Swaging requires no special protective gear by eliminating heat, open flames and toxic fumes.

• INSTANTLY INSPECTABLE

Confirming Swage results couldn't be easier; our "Go/No-Go" Inspection Gauge measures the Swage instantly, leaving you more time to get the job done.



Handheld Swage Tools are compact, repeatable and easy to use in all conditions



360° compression reduces voids, allowing the fitting to run cooler

Can't Find What You Need?

Our connectors are available in a variety of sizes to fit most any situation, but when a custom solution is needed, turn to DMC Power. Our in-house team can design, test and manufacture connectors to fit any specification or use, all under one roof at our ISO 9001:2008 certified facility.



Current Cycle Test per IEEE 837-2014

GC910

1-HOLE OFFSET PAD TERMINAL

| | |
|-----------|------------------|
| Pads | 1 1/4" OD Weight |
| 1"-2" | ~1 lbs |
| Cu COPPER | TIN-PLATING |



ORDERING EXAMPLE

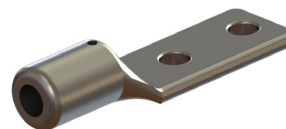
GC910B02GT

#2 AWG Barrel to 1", 1-Hole Offset Pad; Tin-Plated

GC920

2-HOLE OFFSET PAD TERMINAL

| | |
|-----------|------------------|
| Pads | 1 1/4" OD Weight |
| 1"-2" | ~1 1/4 lbs |
| Cu COPPER | TIN-PLATING |



ORDERING EXAMPLE

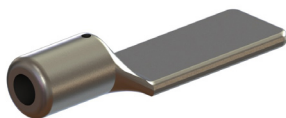
GC920B100T

1000 MCM Barrel to 2", 2-Hole Offset Pad; Tin-Plated

GC929

NO-HOLE OFFSET PAD TERMINAL

| | |
|-----------|------------------|
| Pads | 1 1/4" OD Weight |
| 1"-2" | ~1 1/4 lbs |
| Cu COPPER | TIN-PLATING |



ORDERING EXAMPLE

GC929B030T

300 MCM Barrel to 1-3/4", No-Hole Offset Pad; Tin-Plated

GC909

2-HOLE 90° PAD TERMINAL

| | |
|-----------|------------------|
| Pads | 1 1/4" OD Weight |
| 2" | ~1 1/4 lbs |
| Cu COPPER | TIN-PLATING |



ORDERING EXAMPLE

GC909B050

500 MCM Barrel to 2", 2-Hole 90° Pad

GC922

2-HOLE OFFSET PAD DUAL CABLE TERMINAL

| | |
|-----------|------------------|
| Pads | 1 1/4" OD Weight |
| 1"-2" | ~1 1/4 lbs |
| Cu COPPER | TIN-PLATING |



ORDERING EXAMPLE

GC922B004-004T

4/0 AWG Dual Cable Barrel to 1-3/4", 2-Hole Offset Pad; Tin-Plated

GC912

1-HOLE OFFSET PAD DUAL CABLE TERMINAL

| | |
|-----------|------------------|
| Pads | 1 1/4" OD Weight |
| 1"-2" | ~1 lbs |
| Cu COPPER | TIN-PLATING |



ORDERING EXAMPLE

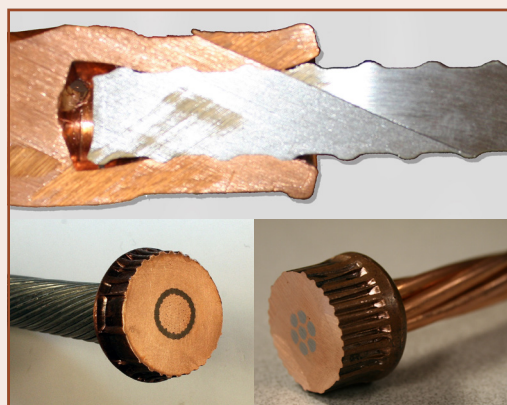
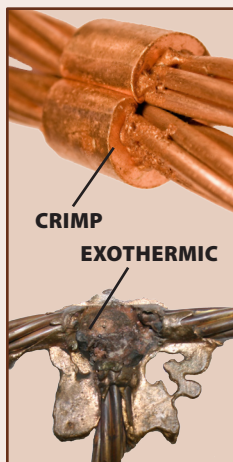
GC912B050-050T

500 MCM Dual Cable Barrel to 2", 1-Hole Offset Pad; Tin-Plated

WHY TAKE A CHANCE WITH CRITICAL UTILITY INFRASTRUCTURE?

SWAGED

Wire strands become cold-welded to the connector creating a superior connection without the heat!



SWAGE SYSTEM



GC733 SPLIT RUN TEE

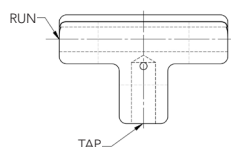
1 1/4" OD Weight
~1 1/2 lbs

Cu COPPER SPLIT TIN PLATING

ORDERING EXAMPLE

GC733B025-500

Tee with 250 MCM Split Run and 1/2" Ground Rod Tap



GC731 THRU RUN TEE

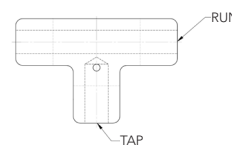
1 1/4" OD Weight
~1 1/2 lbs

Cu COPPER TIN PLATING

ORDERING EXAMPLE

GC731B002-025

Tee with 2/0 AWG Thru Run and 250 MCM Tap



GC741 THRU HOLE CROSS

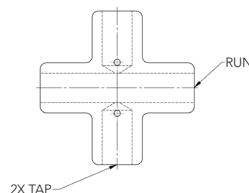
1 1/4" OD Weight
~2 lbs

Cu COPPER TIN PLATING

ORDERING EXAMPLE

GC741B025-002

Cross with 250 MCM Thru Run and two, 2/0 AWG Taps



GC742 OFFSET DUAL SPLIT CROSS

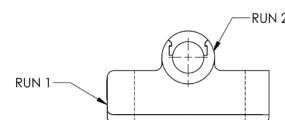
1 1/4" OD Weight
~2 lbs

Cu COPPER SPLIT TIN PLATING

ORDERING EXAMPLE

GC742B003-003

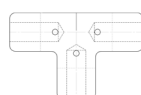
Offset Cross with 3/0 AWG and 250 MCM Split Runs



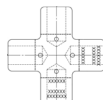
ALSO AVAILABLE:

Visit DMCPower.com to see additional Cross, Tee and Elbow connector styles.

GC730 3-TAP TEE



GC740 4 TAP CROSS



GC729 2-TAP ELBOW



GC743 OFFSET SPLIT RUN ELBOW



APPLICATION NOTES



SIMPLIFY YOUR GROUND GRID USING 3 CONNECTORS

DMC Power Grounding connectors can be used in a variety of ways beyond their intended purpose. In fact, many customers have completed their entire grid with only the 3 parts on the following page:



GC739 SPLIT RUN ELBOW

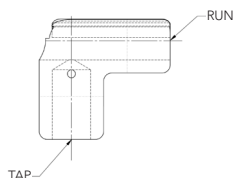
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER SPLIT TIN-PLATING

ORDERING EXAMPLE

GC739B004-050

Elbow with 4/0 AWG Split Thru Run and 500 MCM Tap



GC736 THRU RUN ELBOW

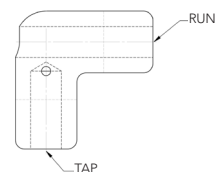
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER TIN-PLATING

ORDERING EXAMPLE

GC736B02G-02G

Elbow with #2 AWG Thru Run and #2 AWG Tap



GC759 OFFSET DUAL SPLIT ELBOW

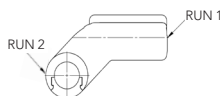
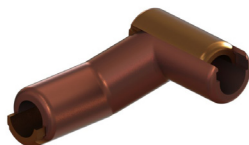
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER SPLIT TIN-PLATING

ORDERING EXAMPLE

GC759B003-025

Offset Elbow with 3/0 AWG and 250 MCM Split Thru Runs



GC749 OFFSET SPLIT AND THRU RUN ELBOW

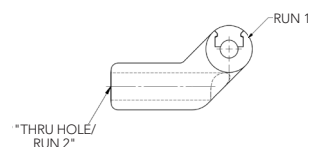
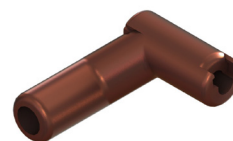
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER SPLIT TIN-PLATING

ORDERING EXAMPLE

GC749B002-050

Offset Elbow with 2/0 AWG Split Thru Run and 500 MCM Thru Run



GC888 / GC721

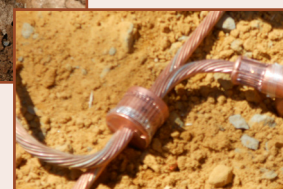
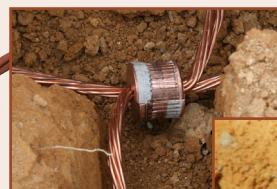
SPLIT
PARALLEL



PARALLEL

CROSS

TEE



GC739 SPLIT ELBOW



ELBOW



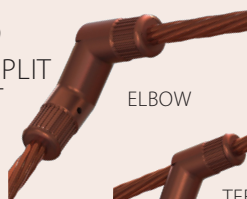
TEE



GROUND RODS

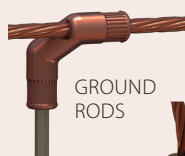
GC759

DUAL SPLIT
OFFSET
CROSS



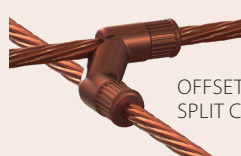
ELBOW

TEE



GROUND
RODS

RISER



OFFSET
SPLIT CROSS



GC721 SPLIT PARALLEL

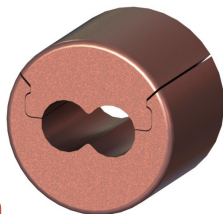
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER SPLIT TIN-PLATING

ORDERING EXAMPLE

GC721B025-025

250 MCM to 250 MCM
Split Parallel



GC888 REDUCED SPLIT PARALLEL

1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER SPLIT TIN-PLATING

- Optimized design improves conductivity and performance while reducing material cost
- Solid web separation of conductors
- Single Swage installation
- Removable caps for easy installation
- Can be used as splice, tee, elbow or cross
- Fully tested and certified to all IEEE standards



ORDERING EXAMPLE

GC888B002-002

2/0 AWG to 2/0 AWG Reduced
Split Parallel

GC720 SPLICE

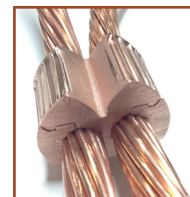
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER TIN-PLATING

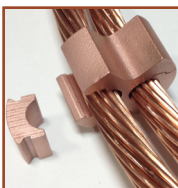
ORDERING EXAMPLE

GC720B025-500

250 MCM to 1/2" Steel
Rod Splice



Separation
of Conductors



Removable Split
Caps



Single Swage
Installation



Instantly
Inspectable

APPLICATION NOTES



YOUR ONE STOP GROUND SOLUTION

DMC Power supplies all styles of high quality connectors needed to complete your grounding grid. With the push of a button on our lightweight tooling you can connect ground cables and rods in as little as 10 seconds. Trust the DMC Power Swage System for safe, repeatable, instantly inspectable and proven ground connections.

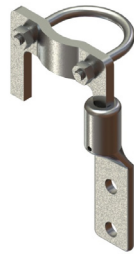
- GC920** – 2-Hole Terminal
- GC910** – 1-Hole Terminal
- GC740** – 4-Tap Cross
- GC729** – 2-Tap Elbow
- GC731** – Thru Run Tee
- GC721** – Split Parallel
- GC743** – Offset Split Elbow
- GC739** – Split Run Elbow
- GC759** – Offset Dual Split Elbow
- GC736** – Thru Run Elbow
- GC720** – Splice
- GC741** – Thru Run Cross
- GC730** – 3-Tap Tee
- GC746** – Alternate Thru Run Tee
- GC733** – Split Run Tee
- GC740** – 4-Tap Cross
- GC760** – Fence Post Connector
- GC888** – Reduced Split Parallel

GC765

FENCE POST CONNECTOR TO NEMA PAD

3" Weight
~3 lbs

Cu COPPER TIN PLATING



ORDERING EXAMPLE

GC765B 32-000-920 T

2" Fence Post Bracket to a Right Aligned 2-Hole NEMA Pad; Tin-Plated

Fence Post NPS Size
Left Side Terminal Type
Right Side Terminal Type
(000=None; 920=2-Hole;
910=1-Hole)
Tin Plating (Optional)

GC762

SWINGING GATE CONNECTOR

3" Weight
~5½ lbs

Cu COPPER TIN PLATING



ORDERING EXAMPLE

GC762B24-64-002 D T

1-1/2" Swinging Gate Frame to 4" Gate Post with Dual 2/0 AWG Splices; Tin-Plated

Gate Frame NPS Size
Gate Post NPS Size
Splice Identifier Number
Connector Placement
(R=Right; L=Left; D=Dual)
Tin Plating (Optional)

GC760

FENCE POST CONNECTOR

3" Weight
~4 lbs

Cu COPPER TIN PLATING



ORDERING EXAMPLE

GC760B 40-002-002 T

2-1/2" Fence Post Bracket to Dual 1/0 AWG Splices

Fence Post NPS Size
Left Splice Identifier Number
Right Splice Identifier Number
Tin Plating (Optional)

GC761

FENCE POST CONNECTOR WITH SLOTTED BOLT

3" Weight
~1½ lbs

Cu COPPER TIN PLATING

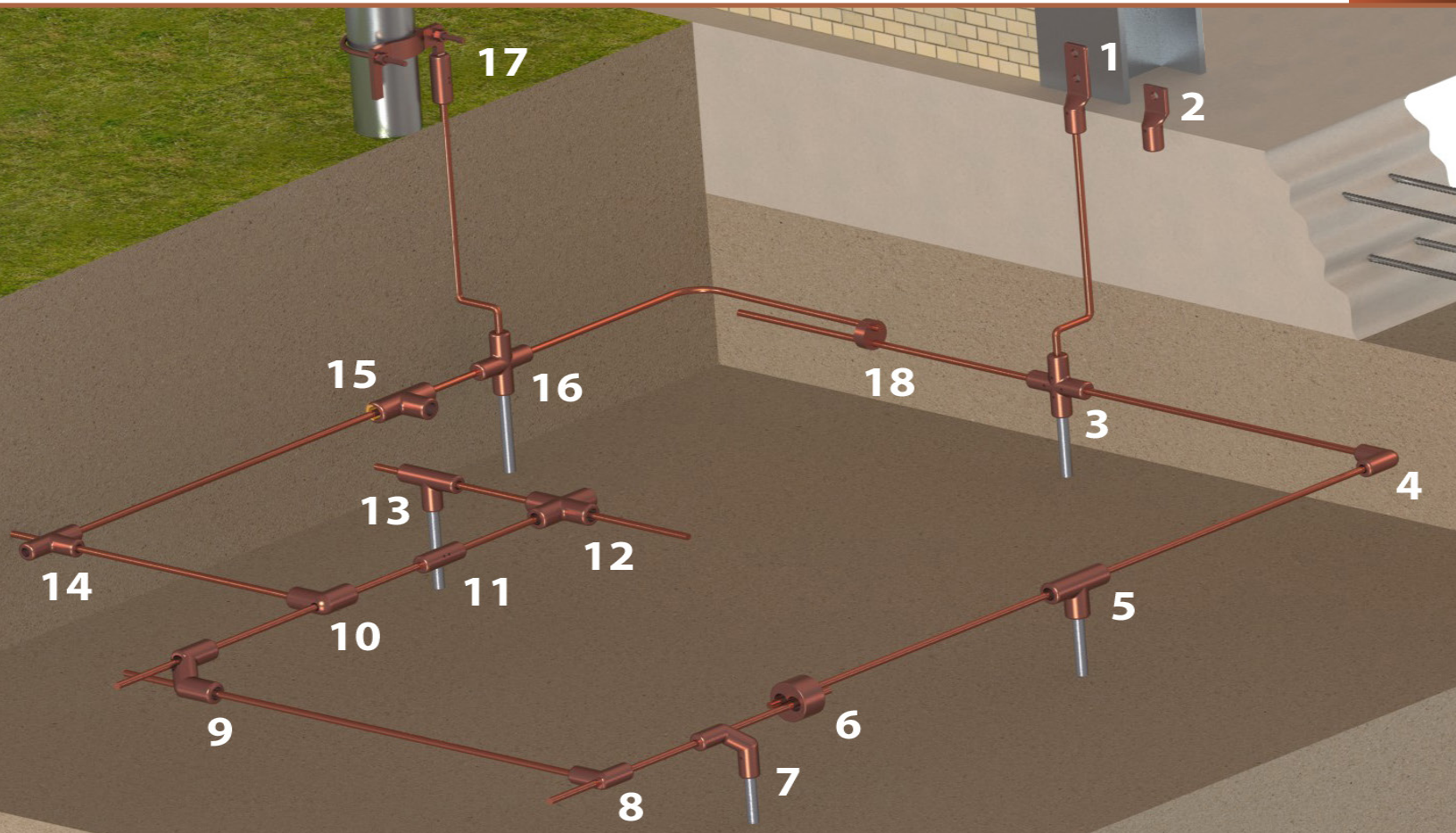


ORDERING EXAMPLE

GC761B 24-02G

1-1/2" Fence Post Bracket to #2 AWG Slotted Bolt

Fence Post NPS Size
Slotted Bolt Identifier Number (02G; 04G)



GROUNDING CABLE AND ROD IDENTIFIER NUMBERS

- Any combination of wire and/or rod connector is available
- The largest designator determines the part OD
- Consult DMC Power for Metric Rods and Rebar identifier code

Copper Cable (Ref. ASTM B8)

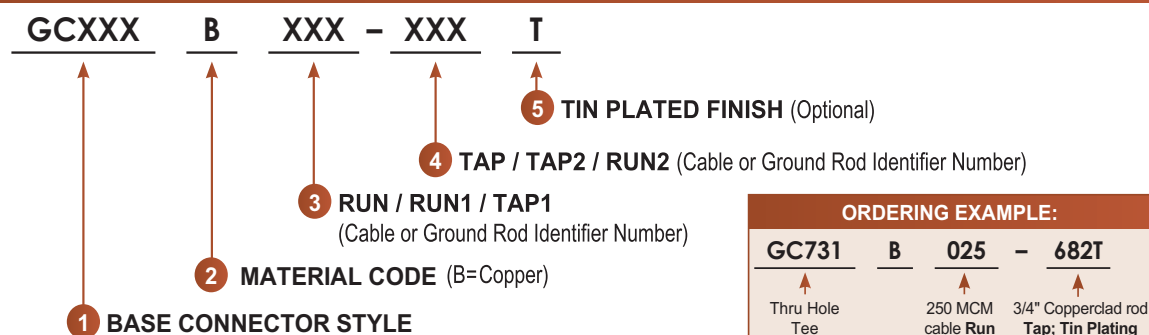
| Bare Stranded Copper Size (AWG/kcmil) <i>Solid Wire</i> | Dead Soft Annealed Copperweld (Stranding/AWG) | Bare Stranded Copper Size (mm2) SI/Metric | Connector Identifier Number | Connector O.D. (±.015) | |
|---|--|--|-----------------------------|---------------------------|---------------------------|
| #6 AWG | 1/#6 | 10.8 & 12.6 | 06G | 1.25 | 1.00 for parallel |
| #4 AWG | 1/#4 & 3/#10 | 14.1, 16, 17.8 & 19.6 | 04G | | 2.00 for parallel |
| #2 AWG | 1/#2, 3/#8, 3/#9 & 7/#10 | 22, 25, 27.6, 29.2, 34.4 & 35 | 02G | | |
| 1/0 AWG | 3/#5, 3/#6 & 3/#7 | 48.3 & 50 | 002 | | |
| 2/0 AWG | 7/#8 & 7/#9 | 70 & 74.9 | | | |
| 3/0 Solid Wire | 7/#7 & 7/#6 | 83.6, 93.3 & 95 | 003 | | |
| 3/0 AWG | | | | | |
| 4/0 Solid Wire | 7/#5 | 96.8, 116 & 120 (Compacted Wires) | 004 | | |
| 4/0 AWG | 7/#5 | 96.8, 116 & 120 (Compacted Wires) | 004 | 1.50 | 2.00 for parallel |
| 250 MCM | 19/#9 | 120 & 134 | 025 | | 2.25 to 2.75 for parallel |
| #4 AWG | 1/#4 & 3/#10 | 14.1, 16, 17.8 & 19.6 | 04G | | |
| #2 AWG | 1/#2, 3/#8, 3/#9 & 7/#10 | 22, 25, 27.6, 29.2, 34.4 & 35 | 02G | | |
| 1/0 AWG | 3/#5, 3/#6 & 3/#7 | 38.2, 48.3 & 50 | 002 | | |
| 2/0 AWG | 7/#8 & 7/#9 | 70 & 74.9 | | | |
| 3/0 Solid Wire | 7/#7 & 7/#6 | 83.6, 93.3 & 95 | 003 | | |
| 3/0 AWG | | | | | |
| 4/0 Solid Wire | 7/#5 | 96.8, 116 & 120 (Compacted Wires) | 004 | | |
| 4/0 AWG | 7/#5 | 96.8, 116 & 120 (Compacted Wires) | 004 | | |
| 250 MCM | 19/#9 | 120 & 134 | 025 | | |
| 300 MCM | 19/#8 | 145.8, 146, 150 & 185 (Cmpctd Wires) | 030 | | |
| 350 MCM | - | 181.6, 182 & 185 | 035 | | |
| 400 MCM | 19/#7 | 194 & 240 (Compacted Wires) | 040 | | |
| 450 MCM | - | - | 045 | | |
| 500 MCM | 19/#6 | 240 | 050 | | |
| 500ROPELAY | 19/#5 | 300 | 053 | | |
| - | 7/#4 | - | 500 | 1.875 | |
| 750 MCM | - | - | 075 | | |
| 1000 MCM | - | 500 | 100 | | |

Ground Rod

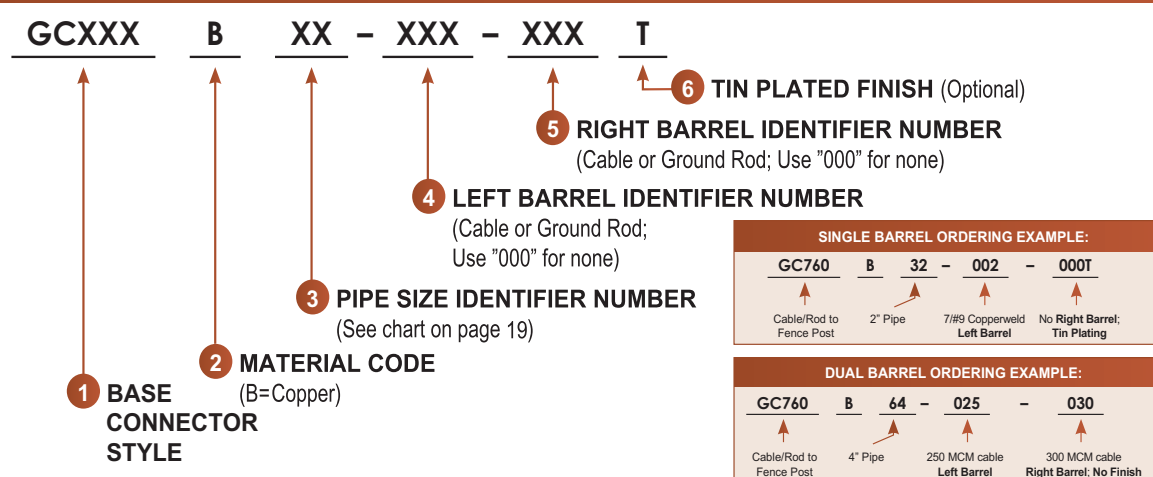
| Size | Material Type | Connector Identifier Number | Connector O.D. (±.015) | |
|------|---|-----------------------------|------------------------|-------------------|
| 3/8" | #3 Steel rebar | 003 | 1.25 | 2.00 for parallel |
| 1/2" | Copperclad-plain & sectional with 1/2" thread | 025 | | |
| 1/2" | Steel & copperclad sectional with 9/16" thread & #4 Steel rebar | 500 | | |
| 5/8" | Copperclad-plain & sectional with 5/8" thread | 562 | | |
| 5/8" | Steel plain & #5 Steel rebar | 625 | | |
| 3/4" | Copperclad-plain & sectional with 3/4" thread | 682 | | |
| 3/8" | #3 Steel rebar | 003 | 1.50 | 2.25 for parallel |
| 1/2" | Copperclad-plain & sectional with 1/2" thread | 025 | | |
| 1/2" | Steel & copperclad sectional with 9/16" thread & #4 Steel rebar | 500 | | |
| 5/8" | Copperclad-plain & sectional with 5/8" thread | 030 | | |
| 5/8" | Steel plain & #5 Steel rebar | 035 | | |
| 3/4" | Copperclad-plain & sectional with 3/4" thread | 040 | | |
| 3/4" | Steel plain | 750 | | |
| 1" | Copperclad-plain & sectional with 1" thread | 914 | | |
| 1" | Steel plain | 950 | | |

GROUND CONNECTOR ORDERING NOMENCLATURE

GROUNDING CONNECTORS



FENCE POST CONNECTORS



TO FIND THE CORRECT TOOLING:

1. Select required connector

2. Use the chart on page 38 to determine the Connector Identifier Number and Connector O.D.
Use the larger O.D. for two different sized runs

3. Select the proper Head Assembly & Inspection Gauge based on the Connector O.D.

| Connector Type | Connector Identifier # | | | | | Connector O.D. | Swage Tool Head Assembly | Inspection Gauge |
|-----------------|------------------------|-----|-----|-----|-----|----------------|--------------------------|------------------|
| Tee | 02G | 04G | 06G | 002 | 003 | 1.25 | DLT45CLHA03975 | GCIG200-03975 |
| Splice | 004 | 025 | 500 | 562 | 625 | | | |
| Cross | 025 | 500 | 682 | | | | | |
| Elbow | 02G | 04G | 002 | 003 | 004 | 1.50 | DLT45CLHA05565 | GCIG200-05565 |
| Terminal | 025 | 030 | 035 | 040 | 045 | | | |
| Fence Connector | 050 | 053 | 500 | 750 | 914 | | | |
| Parallel | 04G | 06G | | | | 1.00 | DLT45CLHA02500 | DLT45CLIG02500 |
| | 02G | | | | | 1.50 | DLT45CLHA05565 | GCIG200-05565 |
| | | | | | | 1.875 | DLT45CLHA08745 | GCIG200-08745 |
| | 002 | 003 | 004 | 025 | 035 | 2.00 | DLT45CLHA11130 | GCIG200-11130 |
| | 500 | 562 | 600 | 625 | | | | |
| | 040 | 045 | 050 | 750 | 914 | 2.25 | DLT45CLHA15900 | GCIG200-15900 |
| | 950 | | | | | | | |

*Exceptions exist for some cable size combinations; refer to individual model drawing to confirm tooling. DLT45- Head Assemblies use the DLT45MAPW0000 Power Unit

FULL TENSION CONNECTORS

- 6000 series aluminum alloy
- Fits cable sizes 1/0 - 3500 kcmil
- Single and Two-Stage applications

- Meets pull out requirement of over 95% strength of cable
- Pre-drilled inspection hole for proper cable insertion
- Custom dimensions and configurations available

THINKING OUTSIDE THE FENCE

Every day a continuously increasing demand is placed on our nation's transmission conductors, often causing them to operate at temperatures exceeding 130°C. Keeping these transmission lines safely in the air is the single most critical requirement of any connector and traditional installation methods simply cannot survive long under this kind of burden. That's why DMC Power designed the next generation of Full Tension connectors for AAC, ACSR, ACSS and Static Wire applications.

DMC Power has spent several years testing to all industry standards including ANSI C119.4 Class "AA" current cycling on our Single Stage system, establishing us as the only "High Temperature" Single Stage system option.

Additional Thermal/Mechanical testing of our Single Stage "One Die" ACSR fittings at an elevated temperature of 150°C and 25% tension showed that all of our test samples ran an average of 25% cooler than the control conductor temperature, proving DMC Power's superior performance over all other compression systems.

DMC Power's strict manufacturing processes and ISO 9001:2008 quality system ensures that each and every connector you receive meets and exceeds all utility and industry standards. Trust the superior quality and proven reliability of the DMC Power Swage System on your next Transmission project.



Only 4 Swages required on AAC Single Pad Deadends



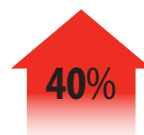
360° compression with just the push of a button

FULL 360° COMPRESSION

Unlike other connection systems that use dangerous explosives, inferior connector material or fixed dies that produce inefficient compression, our Swage System provides 360° compression around the outside of the high strength 6000 series aluminum alloy fitting to produce:



AREA OF
REDUCTION



HIGHER IACS
RATING



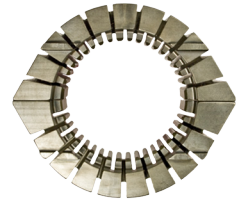
HIGHER THERMAL
CONDUCTIVITY
RATING

THE MOST NOVEL FULL TENSION TRANSMISSION APPLICATION IN 30 YEARS

- Internal step down for stress relief
- Flared out section provides a "choking" effect



- 360° flex die applies symmetrical forces for greater holding strength



- Flexible gripping core to prevent scraping out holding grit



- Yields a 20% area of reduction for superior electrical performance



MANUFACTURING

- Machined to exact sizes (Tolerance: $\pm .005$)
- Cores are machined for maximum accuracy
- Exact surface finish allows maximum contact
- Optimum strength through precise heat treatment
- Special galvanizing and superior corrosion protection
- TIG welding for best connection and conductivity
- Gun Drill Machining produces 5x tighter tolerance vs. extrusion



PERFORMANCE FEATURES

- Higher conductivity alloy
- Superior mechanical strength
- Step down stress relief
- Fewer compressions for fast installation
- Lighter tool for improved ergonomics
- No need to rotate the tool, no bowing
- Lower total ownership cost

APPLICATION NOTES



PULL DMC OVER THE ROLLERS

Transmission line construction specialists recognize the time and costs associated with temporary joints used to pull cables through the rollers. The need for access roads or helicopters to install permanent splices can add \$1,000,000 to your project for every 100 splices! DMC Power's Swage design allows for splices to run OVER the roller during installation without impacting splice performance -- just Swage your reels together and start stringing!



COMPLETE LINE OF FULL TENSION

DMC Power offers a complete line of Full Tension connector configurations for any Transmission application. Identifying the proper base part number is easy - simply replace the "x" in the listed part number with the corresponding letter of the conductor type being used. See page 53 for complete part ordering information.



CONDUCTOR CODES

DB = AAC **DC** = ACSR **DJ** = ACSS
DL = ACSS TW Equal Area **DN** = Static Wire
DQ = ACSS TW Equal Diameter

EXAMPLE

AAC (DB) Single Pad Deadend (Dx99) = DB99

Dx99

SINGLE PAD DEADEND



- Kit includes Bolt Package and Jumper Terminal
- 2-Stage Connector = Dx79



Dx98

DEADEND



- Includes Deadend only
- For use with Tees (Dx93) or Taps (Dx92)
- 2-Stage Connector = Dx78



Dx97

DUAL PAD DEADEND



- Kit includes two Bolt Packages and two Jumper Terminals
- 2-Stage Connector = Dx77

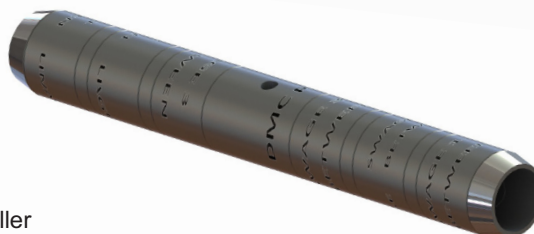


Dx96

SPLICE CONNECTOR



- Superior sheave performance
- Save installation time and money by going over the roller
- 2-Stage Connector = Dx76

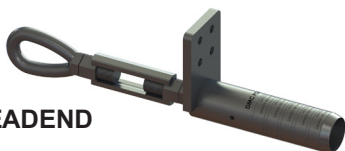


Dx89

SINGLE PAD ADJUSTABLE DEADEND



- Kit includes Bolt Package and Jumper Terminal
- 2-Stage Connector = Dx69



Dx88

ADJUSTABLE DEADEND



- Includes Deadend only
- For use with Tees (Dx93) or Taps (Dx92)
- 2-Stage Connector = Dx68



Dx87

DUAL PAD ADJUSTABLE DEADEND



- Kit includes two Bolt Packages and two Jumper Terminals
- 2-Stage Connector = Dx67



DN79

SINGLE PAD STATIC WIRE DEADEND



- Kit includes Bolt Package and Jumper Terminal
- Static Wire Splice (DN76), Deadend (DN78) and Dual Pad Deadend (DN77) also available

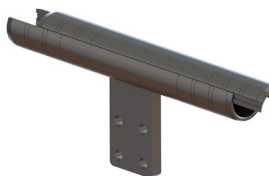


Dx92

TAPS



- Split fitting design slides easily over existing cable
- Custom pad sizes and configurations available

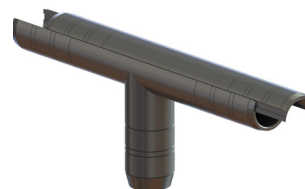


Dx93

TEES



- Split fitting design slides easily over existing cable
- Any size cable and configuration available



Dx94

JUMPER TERMINALS

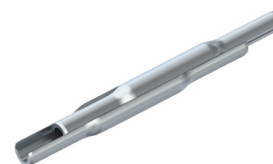
- Connects to Deadend NEMA pads to keep the current flowing
- Standard and custom angles available
- Jumper Terminal included with Deadend orders or available separately



Dx95

REPAIR SLEEVES

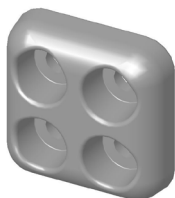
- Provides a lifelong Swage connection for weak points in cable runs
- Split fitting design slides easily over existing cable



PLK8000

EHV BOLT SHIELDS

- Bolts directly onto existing NEMA Pad to smooth out the electric field profile created by sharp edges
- Can be used at high altitude, coastal or industrial areas for added protection
- Included with all EHV Deadend orders



DPFT8014

MOUNTING HARDWARE

- Kit contains 4 Bolts, Washers and Nuts
- One standard kit included per Deadend and Jumper Terminal order



AAC CABLE SELECTOR CHART

► Step 1: Select your base connector style

| | DEADEND | | | | | | JUMPER TERMINAL | |
|-----|---------|--------|-------|------------------|-------------------|------------------|-----------------|-----------------|
| | 1 PAD | NO PAD | 2 PAD | ADJUSTABLE 1 PAD | ADJUSTABLE NO PAD | ADJUSTABLE 2 PAD | SINGLE TERMINAL | DOUBLE TERMINAL |
| AAC | DB99 | DB98 | DB97 | DB89 | DB88 | DB87 | DB94 | DB84 |

| | SPICES | | | | TEES | TAPS |
|-----|----------|--------|------|---------|------|------|
| | STANDARD | REPAIR | LOOP | REDUCER | | |
| AAC | DB96 | DB95 | DB91 | DB90 | DB93 | DB92 |

► Steps 2 & 3: Find the AAC Conductor you're using and select the corresponding outer aluminum **BARREL DIE #** and **CABLE CODE #**

| AAC | SIZE (kcmil) | STR | CABLE OD | BARREL DIE # | CABLE CODE # |
|-------------|--------------|-----|----------|--------------|--------------|
| Poppy | 1/0 | 7 | 0.368 | 125 | 00 |
| Aster | 2/0 | 7 | 0.414 | 125 | 01 |
| Phlox | 3/0 | 7 | 0.464 | 125 | 02 |
| Oxlip | 4/0 | 7 | 0.522 | 125 | 03 |
| Sneezewort | 250 | 7 | 0.567 | 125 | 0A |
| Laurel | 266.8 | 19 | 0.592 | 125 | 04 |
| Tulip | 336.4 | 19 | 0.665 | 125 | 05 |
| Daffodil | 350 | 19 | 0.679 | 125 | 05 |
| Canna | 397.5 | 19 | 0.723 | 125 | 05 |
| Goldentuft | 450 | 19 | 0.769 | 125 | 05 |
| Cosmos | 477 | 19 | 0.792 | 150 | 10 |
| Syringa | 477 | 37 | 0.795 | 150 | 10 |
| Zinnia | 500 | 19 | 0.811 | 150 | 10 |
| Hyacinth | 500 | 37 | 0.814 | 150 | 10 |
| Dahlia | 556.5 | 19 | 0.856 | 150 | 10 |
| Mistletoe | 556.5 | 37 | 0.858 | 150 | 10 |
| Meadowsweet | 600 | 37 | 0.891 | 150 | 10 |
| Orchid | 636 | 37 | 0.918 | 175 | 15 |
| Heuchera | 650 | 37 | 0.928 | 175 | 15 |
| Verbena | 700 | 37 | 0.963 | 175 | 20 |
| Flag | 700 | 61 | 0.964 | 175 | 20 |
| Violet | 715.5 | 37 | 0.973 | 175 | 20 |
| Nasturtium | 715.5 | 61 | 0.975 | 175 | 20 |
| Petunia | 750 | 37 | 0.997 | 175 | 20 |
| Cattail | 750 | 61 | 0.998 | 188 | 25 |
| Arbutus | 795 | 37 | 1.026 | 188 | 25 |
| Lilac | 795 | 61 | 1.027 | 188 | 25 |
| Cockscomb | 900 | 37 | 1.092 | 188 | 25 |
| Snapdragon | 900 | 61 | 1.093 | 200 | 30 |
| Magnolia | 954 | 37 | 1.124 | 200 | 30 |
| Goldenrod | 954 | 61 | 1.125 | 200 | 30 |
| Hawkweed | 1000 | 37 | 1.151 | 200 | 35 |
| Camellia | 1000 | 61 | 1.152 | 200 | 35 |
| Bluebell | 1033.5 | 37 | 1.17 | 200 | 40 |
| Larkspur | 1033.5 | 61 | 1.171 | 200 | 40 |

AAC CABLE SELECTOR CHART

| AAC | SIZE (kcmil) | STR | CABLE OD | BARREL DIE # | CABLE CODE # |
|------------|--------------|-----|----------|--------------|--------------|
| Marigold | 1113 | 61 | 1.216 | 225 | 45 |
| Hawthorn | 1192.5 | 61 | 1.258 | 225 | 45 |
| Narcissus | 1272 | 61 | 1.300 | 225 | 45 |
| Columbine | 1351.5 | 61 | 1.340 | 225 | 50 |
| Carnation | 1431 | 61 | 1.378 | 225 | 50 |
| Gladiolus | 1510.5 | 61 | 1.416 | 225 | 55 |
| Coreopsis | 1590 | 61 | 1.453 | 225 | 55 |
| Jessamine | 1750 | 61 | 1.524 | 225 | 58 |
| Cowslip | 2000 | 91 | 1.631 | 275 | 60 |
| Sagebrush | 2250 | 91 | 1.730 | 275 | 65 |
| Pigweed | 2300 | 91 | 1.748 | 275 | 65 |
| Lupine | 2500 | 91 | 1.823 | 275 | 70 |
| Bluebonnet | 3500 | 127 | 2.158 | 325 | 85 |



HANG TRANSMISSION CABLE IN SECONDS WITH JUST 4 STEPS:

1. INSERT



2. SWAGE



3. INSPECT



4. CONNECT



ACSR CABLE SELECTOR CHART

► Step 1: Select your base connector style

| | DEADEND | | | | | | JUMPER TERMINAL | |
|-------------------|---------|--------|-------|------------------|-------------------|------------------|-----------------|-----------------|
| | 1 PAD | NO PAD | 2 PAD | ADJUSTABLE 1 PAD | ADJUSTABLE NO PAD | ADJUSTABLE 2 PAD | SINGLE TERMINAL | DOUBLE TERMINAL |
| ACSR Single Stage | DC99 | DC98 | DC97 | DC89 | DC88 | DC87 | DC94 | DC84 |
| ACSR Two Stage | DC79 | DC78 | DC77 | DC69 | DC68 | DC67 | | |

| | SPLICES | | | | TEES | TAPS |
|-------------------|----------|--------|------|---------|------|------|
| | STANDARD | REPAIR | LOOP | REDUCER | | |
| ACSR Single Stage | DC96 | DC95 | DC91 | DC90 | DC93 | DC92 |
| ACSR Two Stage | DC76 | | | DC70 | | |

► Step 2 & 3: Find the ACSR Conductor you're using and select the corresponding outer aluminum **BARREL DIE #** and Single or Two Stage **CABLE CODE #** (NOTE: Internal Die # required for 2-Stage installation but not used to build the part number)

| | | | | 1 & 2-STAGE | CABLE CODE # | | 2-STAGE ONLY |
|-----------|--------------|-------------|----------|--------------|--------------|-----------|---------------------|
| ACSR | SIZE (kcmil) | STR (Al/St) | CABLE OD | BARREL DIE # | SINGLE STAGE | TWO STAGE | INTERNAL CORE DIE # |
| Raven | 1/0 | 6/1 | 0.398 | 150 | 0F | 0F | N/A |
| Quail | 2/0 | 6/1 | 0.447 | 150 | 0E | 0E | |
| Pigeon | 3/0 | 6/1 | 0.502 | 150 | 0D | 0D | |
| Penguin | 4/0 | 6/1 | 0.563 | 150 | 01 | 01 | |
| Waxwing | 266.8 | 18/1 | 0.609 | 150 | 0F | 0F | |
| Partridge | 266.8 | 26/7 | 0.642 | 150 | 0C | 0C | |
| Merlin | 336.4 | 18/1 | 0.684 | 150 | 02 | 02 | 063 |
| Linnet | 336.4 | 26/7 | 0.720 | 150 | 04 | 04 | |
| Chickadee | 397.5 | 18/1 | 0.743 | 150 | 08 | 08 | |
| Brant | 397.5 | 24/7 | 0.772 | 150 | 10 | 09 | |
| Ibis | 397.5 | 26/7 | 0.783 | 150 | 10 | 10 | 075 |
| Lark | 397.5 | 30/7 | 0.806 | 150 | 12 | 12 | |
| Pelican | 477 | 18/1 | 0.814 | 150 | 14 | 14 | |
| Flicker | 477 | 24/7 | 0.846 | 150 | 16 | 15 | |
| Hawk | 477 | 26/7 | 0.858 | 150 | 16 | 16 | |
| Hen | 477 | 30/7 | 0.883 | 175 | 18 | 18 | 088 |
| Osprey | 556.5 | 18/1 | 0.879 | 175 | 20 | 20 | 075 |
| Parakeet | 556.5 | 24/7 | 0.914 | 175 | 22 | 21 | |
| Dove | 556.5 | 26/7 | 0.927 | 175 | 22 | 22 | 088 |
| Eagle | 556.5 | 30/7 | 0.953 | 175 | 24 | 24 | |
| Peacock | 605 | 24/7 | 0.953 | 175 | 26 | 25 | |
| Squab | 605 | 26/7 | 0.966 | 175 | 26 | 26 | |
| Kingbird | 636 | 18/1 | 0.940 | 175 | 30 | 30 | 075 |
| Swift | 636 | 36/1 | 0.930 | 175 | 32 | 32 | |

ACSR CABLE SELECTOR CHART

| | | | | 1 & 2-STAGE | CABLE CODE # | | 2-STAGE ONLY |
|----------|--------------|-------------|----------|--------------|--------------|-----------|---------------------|
| ACSR | SIZE (kcmil) | STR (Al/St) | CABLE OD | BARREL DIE # | SINGLE STAGE | TWO STAGE | INTERNAL CORE DIE # |
| Rook | 636 | 24/7 | 0.977 | 188 | 34 | 33 | 088 |
| Grosbeak | 636 | 26/7 | 0.991 | 188 | 34 | 34 | |
| Scoter | 636 | 30/7 | 1.019 | 188 | 36 | 36 | 100 |
| Egret | 636 | 30/19 | 1.019 | 188 | 36 | 36 | |
| Flamingo | 666.6 | 24/7 | 1.000 | 188 | 38 | 37 | 088 |
| Gannet | 666.6 | 26/7 | 1.014 | 188 | 38 | 38 | |
| Stilt | 715.5 | 24/7 | 1.036 | 188 | 38 | 37 | |
| Starling | 715.5 | 26/7 | 1.051 | 188 | 38 | 38 | |
| Redwing | 715.5 | 30/19 | 1.081 | 188 | 40 | 39 | 100 |
| Drake | 795 | 26/7 | 1.107 | 188 | 40 | 40 | |
| Coot | 795 | 36/1 | 1.040 | 188 | 42 | 42 | 088 |
| Tern | 795 | 45/7 | 1.063 | 188 | 44 | 44 | 100 |
| Condor | 795 | 54/7 | 1.092 | 188 | 46 | 46 | |
| Ruddy | 900 | 45/7 | 1.131 | 200 | 50 | 50 | 100 |
| Rail | 954 | 45/7 | 1.165 | 200 | 50 | 50 | |
| Phoenix | 954 | 42/6 | 1.162 | 200 | 51 | 51 | |
| Canary | 900 | 54/7 | 1.162 | 200 | 52 | 52 | |
| Cardinal | 954 | 54/7 | 1.196 | 200 | 52 | 52 | |
| Ortolan | 1033.5 | 45/7 | 1.212 | 200 | 54 | 54 | |
| Curlew | 1033.5 | 54/7 | 1.245 | 200 | 56 | 56 | |
| Bluejay | 1113 | 45/7 | 1.258 | 225 | 58 | 58 | 113 |
| Finch | 1113 | 54/19 | 1.292 | 225 | 60 | 60 | |
| Bunting | 1192.5 | 45/7 | 1.302 | 225 | 62 | 62 | |
| Grackle | 1192.5 | 54/19 | 1.337 | 225 | 64 | 64 | |
| Bittern | 1272 | 45/7 | 1.345 | 225 | 66 | 66 | |
| Pheasant | 1272 | 54/19 | 1.381 | 225 | 68 | 68 | |
| Dipper | 1351.5 | 45/7 | 1.386 | 225 | 70 | 70 | |
| Martin | 1351.5 | 54/19 | 1.424 | 225 | 72 | 72 | |
| Bobolink | 1431 | 45/7 | 1.427 | 225 | 74 | 74 | |
| Lapwing | 1590 | 45/7 | 1.504 | 225 | 76 | N/A | N/A |
| Lapwing | 1590 | 45/7 | 1.504 | 275 | N/A | 76 | 125 |
| Falcon | 1590 | 54/19 | 1.544 | 275 | 78 | 78 | |
| Chukar | 1780 | 84/19 | 1.602 | 275 | 80 | 80 | |
| Bluebird | 2156 | 84/19 | 1.762 | 275 | 82 | 82 | |
| Kiwi | 2167 | 72/7 | 1.735 | 275 | 84 | 84 | |

ACSS CABLE SELECTOR CHART

► Step 1: Select your base connector style

| | DEADEND | | | | | | JUMPER TERMINAL | |
|------|---------|--------|-------|------------------|-------------------|------------------|-----------------|-----------------|
| | 1 PAD | NO PAD | 2 PAD | ADJUSTABLE 1 PAD | ADJUSTABLE NO PAD | ADJUSTABLE 2 PAD | SINGLE TERMINAL | DOUBLE TERMINAL |
| ACSS | DJ79 | DJ78 | DJ77 | DJ69 | DJ68 | DJ67 | DJ94 | DJ84 |

| | SPLICES | | | | TEES | TAPS |
|------|----------|--------|------|---------|------|------|
| | STANDARD | REPAIR | LOOP | REDUCER | | |
| ACSS | DJ76 | DJ95 | DJ91 | DJ70 | DJ93 | DJ92 |

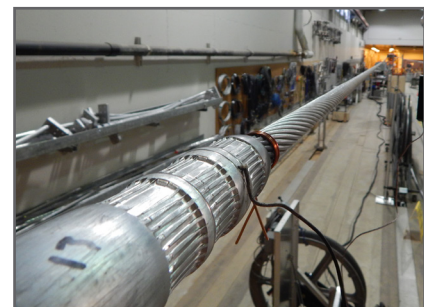
► Step 2 & 3: Find the ACSS Conductor you're using and select the corresponding outer aluminum **BARREL DIE #** and **CABLE CODE #** (NOTE: Internal Die # required for 2-Stage installation but not used to build the part number)

| ACSS | SIZE (kcmil) | STR (Al/St) | CABLE OD | BARREL DIE # | CABLE CODE # | INTERNAL CORE DIE # |
|----------------|--------------|-------------|----------|--------------|--------------|---------------------|
| Partridge/ACSS | 266.8 | 26/7 | 0.642 | 150 | 0C | 063 |
| Ostrich/ACSS | 300 | 26/7 | 0.680 | 150 | 0F | |
| Linnet/ACSS | 336.4 | 26/7 | 0.720 | 150 | 04 | |
| Brant/ACSS | 397.5 | 24/7 | 0.772 | 150 | 09 | 075 |
| Ibis/ACSS | 397.5 | 26/7 | 0.783 | 150 | 10 | |
| Flicker/ACSS | 477 | 24/7 | 0.846 | 150 | 15 | |
| Hawk/ACSS | 477 | 26/7 | 0.858 | 150 | 16 | |
| Hen/ACSS | 477 | 30/7 | 0.883 | 175 | 18 | 088 |
| Dove/ACSS | 556.5 | 26/7 | 0.927 | 175 | 22 | |
| Peacock/ACSS | 605 | 24/7 | 0.953 | 175 | 25 | |
| Squab/ACSS | 605 | 26/7 | 0.966 | 175 | 26 | |
| Rook/ACSS | 636 | 24/7 | 0.977 | 188 | 33 | 088 |
| Grosbeak/ACSS | 636 | 26/7 | 0.991 | 188 | 34 | 100 |
| Scoter/ACSS | 636 | 30/7 | 1.019 | 188 | 36 | |
| Egret/ACSS | 636 | 30/19 | 1.019 | 188 | 36 | |
| Flamingo/ACSS | 666.6 | 24/7 | 1.000 | 188 | 37 | 088 |
| Gannet/ACSS | 666.6 | 26/7 | 1.014 | 188 | 38 | 100 |
| Stilt/ACSS | 715.5 | 24/7 | 1.036 | 188 | 37 | |
| Starling/ACSS | 715.5 | 26/7 | 1.051 | 188 | 38 | |



THERMAL MECHANICAL ACSS TESTING

Our ACSS line of high temperature Deadends and Splices have been independently tested to the rigorous international standards of CIGRE TB 426. Accordingly, samples were subjected to 500 current cycles at 250°C with 25% RBS constant tension including 5 separate sustained holds at 70% RBS for 24 hours. All DMC Power connectors passed easily with the post-aging tensioned conductor breaking at a remarkable 103% RBS.



ACSS CABLE SELECTOR CHART

| ACSS | SIZE (kcmil) | STR (Al/St) | CABLE OD | BARREL DIE # | CABLE CODE # | INTERNAL CORE DIE # |
|------------------|--------------|-------------|----------|--------------|--------------|---------------------|
| Cuckoo/ACSS | 795 | 24/7 | 1.092 | 200 | 4A | 100 |
| Drake/ACSS | 795 | 26/7 | 1.107 | 200 | 40 | |
| Macaw/ACSS | 795 | 42/7 | 1.055 | 200 | 41 | |
| Tern/ACSS | 795 | 45/7 | 1.063 | 200 | 44 | |
| Condor/ACSS | 795 | 54/7 | 1.092 | 200 | 46 | |
| Ruddy/ACSS | 900 | 45/7 | 1.131 | 200 | 50 | |
| Canary/ACSS | 900 | 54/7 | 1.162 | 200 | 52 | |
| Redbird/ACSS | 954 | 24/7 | 1.196 | 200 | 5A | |
| Rail/ACSS | 954 | 45/7 | 1.165 | 200 | 50 | |
| Towhee/ACSS | 954 | 48/7 | 1.175 | 200 | 5B | |
| Cardinal/ACSS | 954 | 54/7 | 1.196 | 200 | 52 | |
| Snowbird/ACSS | 1033.5 | 42/7 | 1.203 | 200 | 5D | |
| Ortolan/ACSS | 1033.5 | 45/7 | 1.212 | 200 | 54 | |
| Curlew/ACSS | 1033.5 | 54/7 | 1.245 | 225 | 56 | 113 |
| Bluejay/ACSS | 1113 | 45/7 | 1.258 | 225 | 58 | |
| Finch/ACSS | 1113 | 54/19 | 1.292 | 225 | 60 | |
| Bunting/ACSS | 1192.5 | 45/7 | 1.302 | 225 | 62 | |
| Pheasant/ACSS | 1272 | 54/19 | 1.381 | 225 | 68 | |
| Dipper/ACSS | 1351.5 | 45/7 | 1.386 | 225 | 70 | |
| Martin/ACSS | 1351.5 | 54/19 | 1.424 | 275 | 72 | 125 |
| Bobolink/ACSS | 1431 | 45/7 | 1.427 | 275 | 74 | |
| Plover/ACSS | 1431 | 54/19 | 1.465 | 275 | 7A | |
| Nuthatch/ACSS | 1510 | 45/7 | 1.465 | 275 | 74 | |
| Parrot/ACSS | 1510 | 54/19 | 1.505 | 275 | 7B | |
| Ratite/ACSS | 1590 | 42/7 | 1.492 | 275 | 7C | |
| Lapwing/ACSS | 1590 | 45/7 | 1.504 | 275 | 76 | |
| Falcon/ACSS | 1590 | 54/19 | 1.544 | 275 | 78 | |
| Chukar/ACSS | 1780 | 84/19 | 1.601 | 275 | 80 | |
| Mockingbird/ACSS | 2034.5 | 72/7 | 1.681 | 275 | 81 | |
| Roadrunner/ACSS | 2057 | 76/19 | 1.700 | 275 | 8A | |
| Bluebird/ACSS | 2156 | 84/19 | 1.762 | 275 | 82 | |
| Kiwi/ACSS | 2167 | 72/7 | 1.735 | 275 | 84 | |



RUN COOLER, LONGER

During ANSI C119.4 type testing, DMC Power ACSS Deadends and Splices showed superior resistance stability on all samples through 500 thermal cycles at 250°C-285°C above room temperature. Additional extreme temperature cycling to 325°C was performed for 280 more cycles with all samples averaging 50% cooler than the control and the post-aging tensile load yielding 104% RBS.



ACSS TW CABLE CHART

- ACSS/TW Equal Area size chart is listed below
- ACSS/TW Equal Diameter and Static Wire are on the following page

► Step 1: Select your base connector style

| | DEADEND | | | | | | JUMPER TERMINAL | |
|--------------|---------|--------|-------|------------------|-------------------|------------------|-----------------|-----------------|
| | 1 PAD | NO PAD | 2 PAD | ADJUSTABLE 1 PAD | ADJUSTABLE NO PAD | ADJUSTABLE 2 PAD | SINGLE TERMINAL | DOUBLE TERMINAL |
| ACSS TW - EA | DL79 | DL78 | DL77 | DL69 | DL68 | DL67 | DL94 | DL84 |
| ACSS TW - ED | DQ79 | DQ78 | DQ77 | DQ69 | DQ68 | DQ67 | DQ94 | DQ84 |

| | SPLICES | | | | TEES | TAPS |
|--------------|----------|--------|------|---------|------|------|
| | STANDARD | REPAIR | LOOP | REDUCER | | |
| ACSS TW - EA | DL76 | DL95 | DL91 | DL70 | DL93 | DL92 |
| ACSS TW - ED | DQ76 | DQ95 | DQ91 | DQ70 | DQ93 | DQ92 |

- ## ► Step 2 & 3: Find the ACSS TW Conductor you're using and select the corresponding outer aluminum **BARREL DIE #** and **CABLE CODE #**
- (NOTE: Internal Die # required for 2-Stage installation but not used to build the part number)

| EQUAL AREA | | | | | | | |
|------------------|--------------|----------|-------------|----------|--------------|--------------|---------------------|
| ACSS/TW | SIZE (kcmil) | TYPE NO. | STR (Al/St) | CABLE OD | BARREL DIE # | CABLE CODE # | INTERNAL CORE DIE # |
| Linnet/ACSS/TW | 336.4 | 16 | 16/7 | 0.667 | 150 | 04 | 063 |
| Flicker/ACSS/TW | 477 | 13 | 18/7 | 0.776 | 150 | 15 | 075 |
| Hawk/ACSS/TW | 477 | 16 | 18/7 | 0.798 | 150 | 16 | |
| Hen/ACSS/TW | 477 | 23 | 20/7 | 0.820 | 175 | 18 | 088 |
| Dove/ACSS/TW | 556.5 | 16 | 20/7 | 0.850 | 175 | 22 | |
| Rook/ACSS/TW | 636 | 13 | 20/7 | 0.893 | 188 | 33 | 088 |
| Grosbeak/ACSS/TW | 636 | 16 | 20/7 | 0.909 | 188 | 34 | |
| Tern/ACSS/TW | 795 | 7 | 17/7 | 0.960 | 200 | 44 | 088 |
| Condor/ACSS/TW | 795 | 13 | 20/7 | 0.993 | 200 | 46 | |
| Drake/ACSS/TW | 795 | 16 | 20/7 | 1.010 | 200 | 40 | 100 |
| Canary/ACSS/TW | 900 | 13 | 20/7 | 1.055 | 200 | 52 | |
| Rail/ACSS/TW | 954 | 7 | 32/7 | 1.061 | 200 | 50 | |
| Cardinal/ACSS/TW | 954 | 13 | 20/7 | 1.080 | 200 | 52 | |
| Ortolan/ACSS/TW | 1033.5 | 7 | 32/7 | 1.102 | 200 | 54 | |
| Curlew/ACSS/TW | 1033.5 | 13 | 22/7 | 1.132 | 225 | 56 | 113 |
| Bluejay/ACSS/TW | 1113 | 7 | 33/7 | 1.143 | 225 | 58 | |
| Bunting/ACSS/TW | 1192.5 | 7 | 34/7 | 1.181 | 225 | 62 | |
| Bittern/ACSS/TW | 1272 | 7 | 38/7 | 1.224 | 225 | 67 | |
| Pheasant/ACSS/TW | 1272 | 13 | 39/19 | 1.260 | 225 | 68 | |
| Dipper/ACSS/TW | 1351.5 | 7 | 35/7 | 1.256 | 225 | 70 | |
| Lapwing/ACSS/TW | 1590 | 7 | 36/7 | 1.358 | 275 | 76 | 125 |
| Falcon/ACSS/TW | 1590 | 13 | 42/19 | 1.410 | 275 | 78 | |
| Chukar/ACSS/TW | 1780 | 8 | 38/19 | 1.445 | 275 | 80 | |
| Bluebird/ACSS/TW | 2156 | 8 | 64/19 | 1.608 | 275 | 82 | |

ACSS TW CABLE CHART

| EQUAL DIAMETER | | | | | | | |
|--------------------|--------------|----------|-------------|----------|--------------|--------------|---------------------|
| ACSS/TW | SIZE (kcmil) | TYPE NO. | STR (Al/St) | CABLE OD | BARREL DIE # | CABLE CODE # | INTERNAL CORE DIE # |
| Mohawk/ACSS/TW | 571.7 | 13 | 18/7 | 0.850 | 150 | 03 | 075 |
| Calumet/ACSS/TW | 565.3 | 16 | 20/7 | 0.860 | 175 | 06 | 088 |
| Oswego/ACSS/TW | 664.8 | 16 | 20/7 | 0.927 | 188 | 12 | 088 |
| Wabash/ACSS/TW | 762.8 | 16 | 20/7 | 0.990 | 188 | 18 | 100 |
| Fraser/ACSS/TW | 946.7 | 10 | 35/7 | 1.077 | 188 | 24 | |
| Columbia/ACSS/TW | 966.2 | 13 | 21/7 | 1.092 | 188 | 27 | |
| Suwannee/ACSS/TW | 959.6 | 16 | 22/7 | 1.110 | 200 | 30 | 113 |
| Genesee/ACSS/TW | 1158 | 7 | 34/7 | 1.165 | 200 | 36 | 100 |
| Catawba/ACSS/TW | 1272 | 5 | 30/7 | 1.203 | 225 | 42 | 113 |
| Nelson/ACSS/TW | 1257.1 | 7 | 35/7 | 1.213 | 225 | 45 | |
| Truckee/ACSS/TW | 1372.5 | 5 | 30/7 | 1.248 | 225 | 51 | |
| St. Croix/ACSS/TW | 1467.8 | 5 | 33/7 | 1.292 | 225 | 60 | |
| Thames/ACSS/TW | 1334.6 | 13 | 38/19 | 1.290 | 275 | 57 | 113 |
| Potomac/ACSS/TW | 1557.4 | 7 | 36/7 | 1.350 | 275 | 72 | 125 |
| Schuylkill/ACSS/TW | 1657.4 | 7 | 36/7 | 1.386 | 275 | 78 | |
| Pecos/ACSS/TW | 1622 | 13 | 39/19 | 1.420 | 275 | 81 | |
| James/ACSS/TW | 1730.6 | 13 | 34/19 | 1.470 | 275 | 87 | |
| Athabaska/ACSS/TW | 1949.6 | 7 | 44/7 | 1.504 | 275 | 90 | |
| Powder/ACSS/TW | 2153.8 | 8 | 64/19 | 1.602 | 275 | 96 | |

STATIC WIRE CABLE CHART

Below are some of the most popular Static Wire cable sizes.
All sizes and configurations are possible, contact us for more information.

| DN - STATIC WIRE | SIZE / STRANDING | CABLE OD | BREAKING STRENGTH | BARREL DIE # | CABLE CODE # |
|------------------|------------------|----------|-------------------|--------------|--------------|
| Galvanized - EHS | 5/16" | 0.306 | 11,200 | 075 | 28 |
| Alumaweld | 7 No. 10 | 0.306 | 10,020 | 075 | 28 |
| Alumaweld | 7 No. 9 | 0.343 | 12,630 | 075 | 30 |
| Alumaweld | 3 No. 6 | 0.349 | 10,280 | 075 | 30 |
| Galvanized - EHS | 3/8" | 0.385 | 15,400 | 100 | 34 |
| Alumaweld | 7 No. 8 | 0.385 | 15,930 | 100 | 34 |
| Alumaweld | 3 No. 5 | 0.392 | 12,230 | 100 | 34 |
| Alumaweld | 7 No. 7 | 0.433 | 19,060 | 100 | 36 |
| Galvanized - EHS | 1/2" | 0.486 | 26,900 | 113 | 38 |
| Alumaweld | 7 No. 6 | 0.486 | 22,730 | 113 | 38 |
| Alumaweld | 19 No. 10 | 0.509 | 27,190 | 113 | 38 |
| Alumaweld | 7 No. 5 | 0.546 | 27,030 | 125 | 40 |
| Alumaweld | 19 No. 9 | 0.572 | 34,290 | 125 | 42 |

TRANSMISSION TOOLING CHART

- Use the color-coded **BARREL DIE #** associated with your cable type to determine the proper **Head Assembly and Power Unit** combination needed for your job
(this is also the second set of digits in the connector part number: DC98-188-34)
- **ACSS & ACSR 2-Stage** installations will need to reference the **INTERNAL CORE DIE #** to select tooling for the internal steel sleeve

| CABLE TYPE | BARREL DIE # | FITTING O.D. | HEAD ASSEMBLY | INSPECTION GAUGE | POWER UNIT |
|--|--------------|--------------|-------------------------------|-------------------------------|-----------------------------|
| AAC | 125 | 1-1/4" | DP45HA125 (DLT45CLHA03975) | DP45IG125 (DLT45CLIG03975) | DP45PU00 (DLT45MAPW0000) |
| AAC / ACSR | 150 | 1-1/2" | DP45HA150 (DLT45CLHA05565) | DP45IG150 (DLT45CLIG05565) | |
| | 175 | 1-3/4" | DP45HA175 (DLT45CLHA07155) | DP45IG175 (DLT45CLIG07155) | |
| | 188 | 1-7/8" | DP45HA188 (DLT45CLHA08745) | DP45IG188 (DLT45CLIG08745) | |
| AAC | 200 | 2" | DP45HA200 (DLT45CLHA11130) | DP45IG200 (DLT45CLIG11130) | |
| | 225 | 2-1/4" | DP45HA225 (DLT45CLHA15900) | DP45IG225 (DLT45CLIG15900) | |
| ACSR | 200 | 2" | DP58HA200 (DLT58CLHA11130) | DP45IG200 (DLT45CLIG11130) | DP58PU00 (DLT58MAPW0000) |
| AAC | 275 | 2-3/4" | DP58HA275 (DLT58CLHA25000) | DP58IG275 (DLT58CLIG25000) | |
| ACSS/ ACSR 2-Stage Internal Core Die # | 063 | 5/8" | DP85HA063 | DP45IG063 | DP85PU00 (DLT85MAPW0001) |
| | 075 | 3/4" | DP85HA075 (DLT85CLHA00010) | DP45IG075 (DLT45CLIG00010) | |
| | 088 | 7/8" | DP85HA088 | DP45IG088 | |
| | 100 | 1" | DP85HA100 (DLT85CLHA02500) | DP45IG100 (DLT45CLIG02500) | |
| | 113 | 1-1/8" | DP85HA113 | DP45IG113 | |
| | 125 | 1-1/4" | DP85HA125 (DLT85CLHA03975) | DP45IG125 (DLT45CLIG03975) | |
| ACSS/ ACSR 2-Stage Outer Barrel | 150 | 1-1/2" | DP85HA150 (DLT85CLHA05565) | DP45IG150 (DLT45CLIG05565) | |
| | 175 | 1-3/4" | DP85HA175 (DLT85CLHA07155) | DP45IG175 (DLT45CLIG07155) | |
| | 188 | 1-7/8" | DP85HA188 (DLT85CLHA08745) | DP45IG188 (DLT45CLIG08745) | |
| | 200 | 2" | DP85HA200 (DLT85CLHA11130) | DP45IG200 (DLT45CLIG11130) | |
| ACSS/ ACSR Single & 2-Stage Outer Barrel | 225 | 2-1/4" | DP85HA225 (DLT85CLHA15900) | DP45IG225 (DLT45CLIG15900) | |
| | 275 | 2-3/4" | DP85HA275 (DLT85CLHA25000) | DP58IG275 (DLT58CLIG25000) | |

| | | |
|---------------------------|--|-----------------------------------|
| PUMP TYPE (See page 9) | ELECTRIC - DP45EP00 (DLT12MAPE1000) | GAS - DP45GP00 (DLT17MAPE1001) |
|---------------------------|--|-----------------------------------|

FULL TENSION ORDERING NOMENCLATURE

Creating your Full Tension Connectors is easy as 1 – 2 – 3 – 4

- **Step 1:** Select your base connector style (ex: DB97 – AAC Dual Pad Deadend)
- **Step 2 & 3:** Find the specific conductor you're using and take note of the **BARREL DIE #** and the **CABLE CODE #** (ex: AAC Magnolia – **BARREL DIE # 200**; **CABLE CODE # 30**)
- **Step 4:** Add any additional part modifiers (multiple suffixes can be applied)

| OTHER OPTIONS | |
|---------------------|-----|
| No Terminal | NT |
| Horizontal Eyeloop | H |
| EHV | EHV |
| Bolt Package | BK |
| 2 Conductor Spacing | XS |

| PAD OPTIONS | |
|-------------|----|
| 2", 2H Pad | E1 |
| 3", 4H Pad | E2 |
| 4", 4H Pad | E3 |
| 5", 6H Pad | E4 |
| 6", 6H Pad | E5 |

| TOTAL ANGLE | |
|---|-------------|
| DEADEND TO JUMPER MEASURED FROM VERTICAL | |
| 00° | 00 |
| 15° | 15 |
| 45° | 45 |
| Custom Angle | Enter Angle |

Using the three numbers from steps 1, 2 & 3 (and any optional part modifiers) simply link the numbers together with a "-" between them to create your custom Full Tension Connector

DBXX – XXX – XX – X

- Step 1: Insert Base Connector Style
- Step 2: Insert 3-Digit **BARREL DIE #**
- Step 3: Insert 2-Digit **CABLE CODE #**
- Step 4: Add any additional Part Modifiers
(NOTE: Multiple suffixes may be added after the CABLE CODE as needed)

SINGLE STAGE ORDERING EXAMPLE WITH MODIFIER:

Magnolia AAC Cable / 954 kcmil

DB97 – 200 – 30 – EHV

↑ ↑ ↑ ↑

AAC Dual 2" OD 30 Cable EHV
Pad Deadend Barrel Code Version

Tooling: Single Stage - 200 AAC Outer Barrel Size = DP45PU00 Power Unit & DP45HA200 Head Assembly

TWO STAGE ORDERING EXAMPLE WITH MULTIPLE MODIFIERS:

Drake ACSR Cable / 795 kcmil

DC99 – 188 – 40 – H – 15

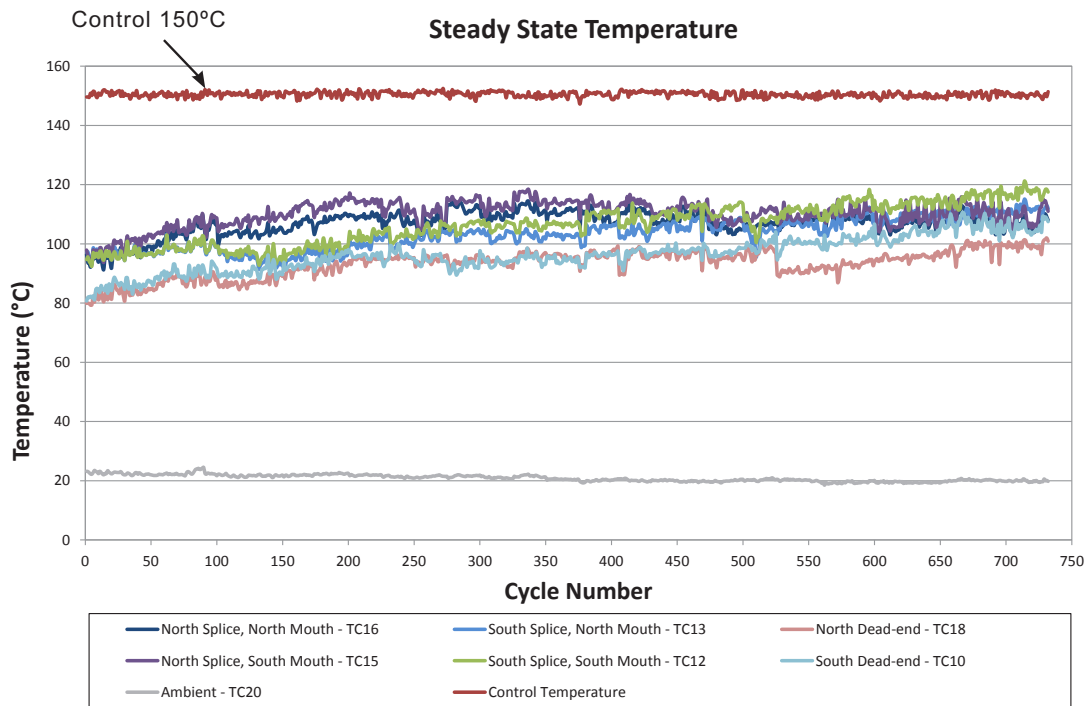
↑ ↑ ↑ ↑ ↑

ACSR Single 1-7/8" OD 40 Cable Horizontal 0° Pad
Pad Deadend Barrel Code Eyeloop From Vertical

Tooling: Two Stage - 188 ACSR Outer Barrel Size = DP85PU00 Power Unit & DP85HA188 Head Assembly
Internal Core Die #100 ACSR = DP85PU00 Power Unit & DP85HA100 Head Assembly

TESTED & CERTIFIED FULL

DMC Power's High Temperature Single Stage (one die) system has been proven to meet even the most aggressive maximum operating temperature of ACSR conductors. Thermal Mechanical testing at the elevated temperature of 150°C and under 25% tension shows excellent stability after 500 cycles with sample connector temperatures running 25% cooler than the control conductor. This allows for NERC facility rating compliance for normal and emergency operations.

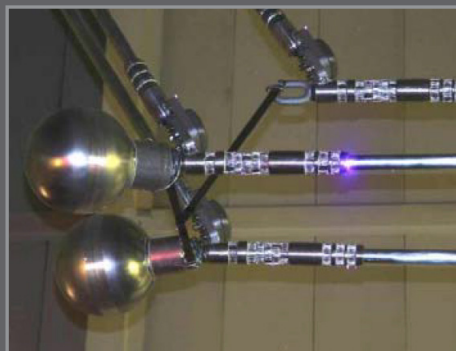


**SUPERIOR
DESIGN**

EXTENSIVE TESTING ASSURES PEAK



CURRENT CYCLE



RIV/CORONA



FREEZE/THAW

TENSION CONNECTORS

Kinectrics Lab independently type tested DMC Power's swaged connectors on various sizes of ACSR & ACSS conductors. All test connectors, as tested, met the acceptance criteria of their specific governing standard. They are as follows:

- Class A, Current Cycle Test (500 cycles) as per ANSI C119.4 on swaged connectors connected to ACSR Bluebird conductor.
- Class AA, Current Cycle Test (500 cycles) as per ANSI C119.4 on swaged connectors connected to ACSR Bluebird conductor. Selected connectors were exposed to a total of 1000 current cycles.
- Mechanical Maximum Load Tests as per ANSI C119.4 on swaged connectors connected to ACSR Linnet, Drake and Bluebird conductors.
- Mechanical Sustained Load Tests as per ANSI C119.4 on swaged connectors connected to ACSR Linnet, Drake and Bluebird conductors.
- Sheave and Pullout Test sequence as per Kinectrics procedure on a swaged connector installed on ACSR Drake conductor.
- Corona and RIV Tests on swaged transmission connectors were conducted per NEMA CC1 up to 765 kV with added corona-control devices as outlined in report DMCP-0120EHV
- Sheave and Pullout Test sequence as per Kinectrics procedure on a swaged connector connected to ACSS Drake conductor.
- Class AA, Current Cycle Test (500 cycles) as per ANSI C119.4 on swaged connectors connected to ACSS Falcon conductor.
- Thermo-Mechanical Cycle Test as per Kinectrics procedure on swaged connectors connected to ACSS Drake conductor.

The mechanical and current cycling tests were performed on ACSR conductors January 16th, 2012 through January 14th, 2013 & ACSS conductors on April 24, 2014 through November 19, 2014.

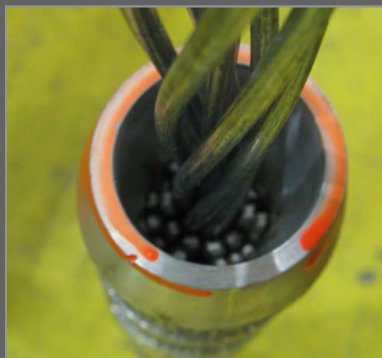
Results are recorded in Kinectrics Test Reports Number K-419340-RC-0001 through K-419340-RC-0008 and K-419515-RC-0003, K-419515-RC-0004 and K-419515-RC-0008.



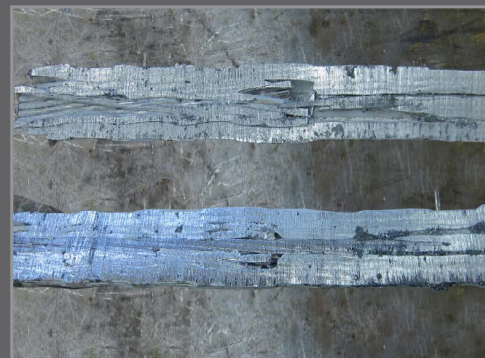
PERFORMANCE IN ALL ENVIRONMENTS



SUSTAINED LOAD



MAXIMUM LOAD

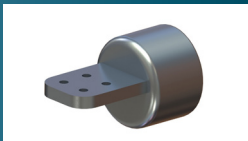


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TOOLING



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CABLE



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