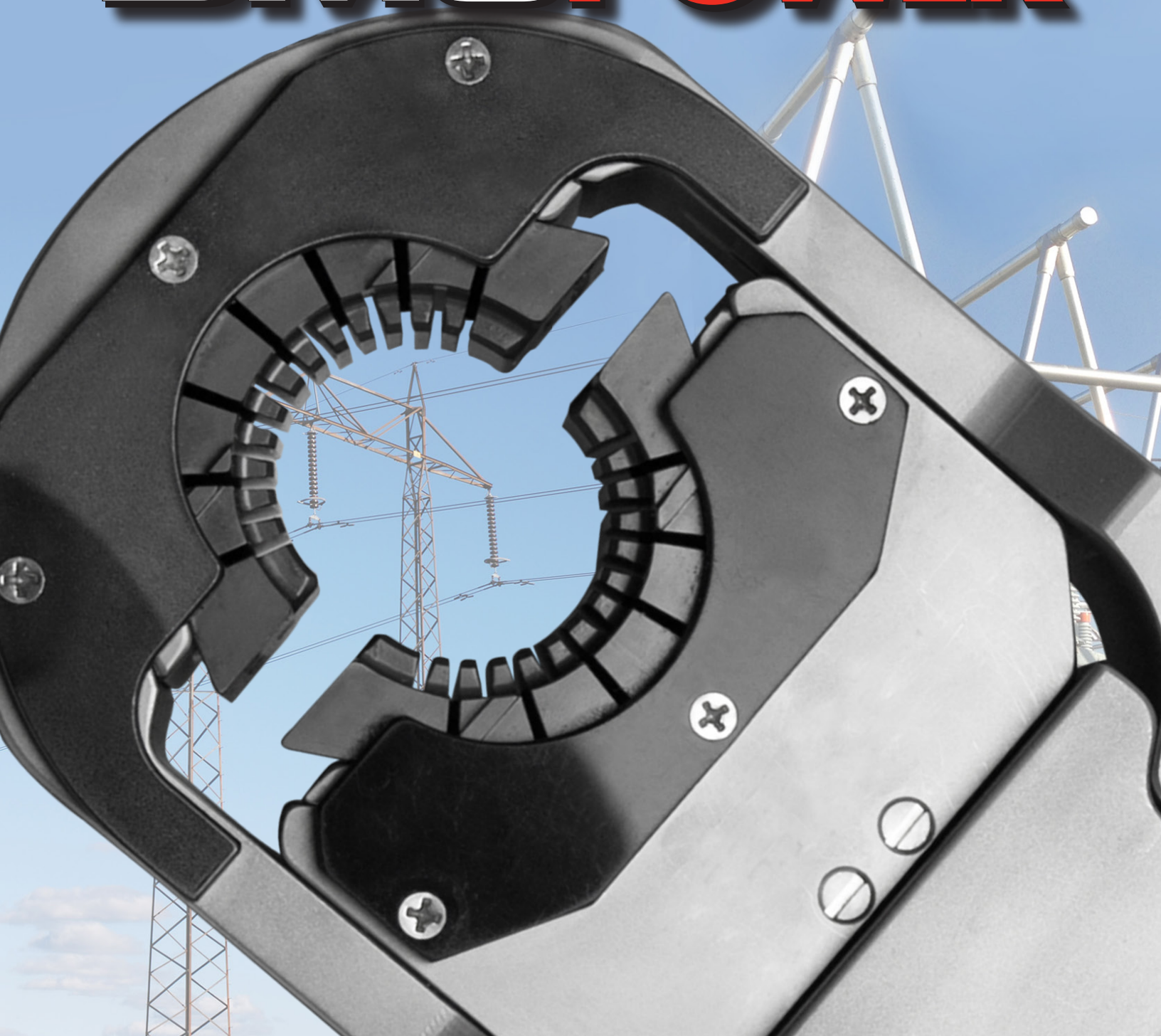


DMCPOWER



SWAGE CONNECTION SYSTEM



BUS

CABLE

GROUNDING

FULL TENSION

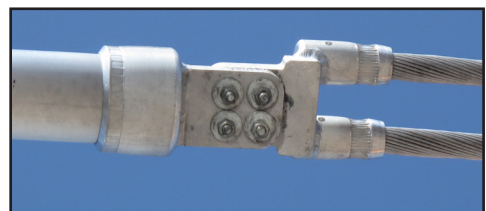
SUPERIOR SUBSTATION AND

DMC Power was created with a vision to revolutionize the Electrical Utility industry with our 360° Swage Connection System.

Fast forward to today and our cutting-edge designs, local engineering experience, direct sales specialists and US-based manufacturing capabilities have propelled DMC Power connectors as the preferred choice for Utilities across North America.

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 9001:2015 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

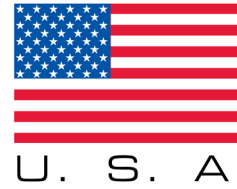
DMC Power is a "Total Quality" ISO 9001:2015 certified U.S. manufacturing facility committed to continuously and measurably improving our products, services and the overall Quality Management System.

Being ISO 9001:2015 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



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, is 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 pieces 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 that immediately voids 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"



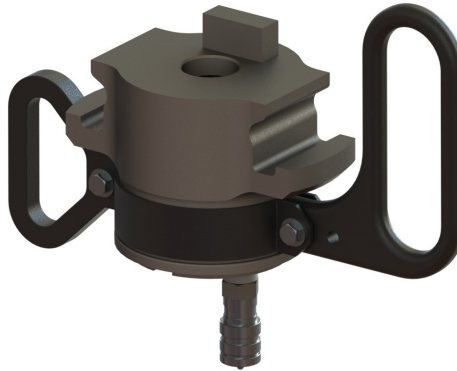
DLT58 Power Unit
with 3" Head Assembly

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

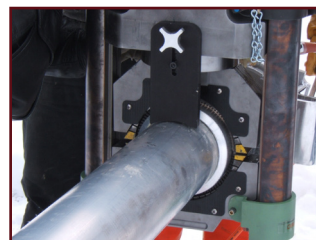
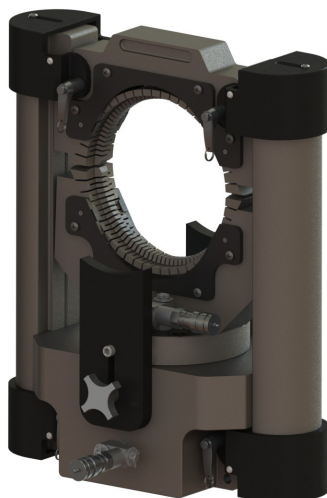


DLT86 Power Unit
with 5" Head Assembly

BUS & FULL TENSION

PLT115**6" BUS TOOL**

- 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



DLT17MAPE1000

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.

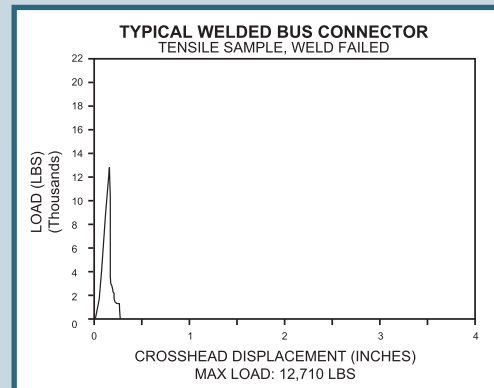
Qualified to meet or exceed all the nationally recognized standards, including ANSI C119.4 and NEMA CC1, the DMC Power system raises the quality, safety and productivity standard on your site, rendering conventional methods obsolete.

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

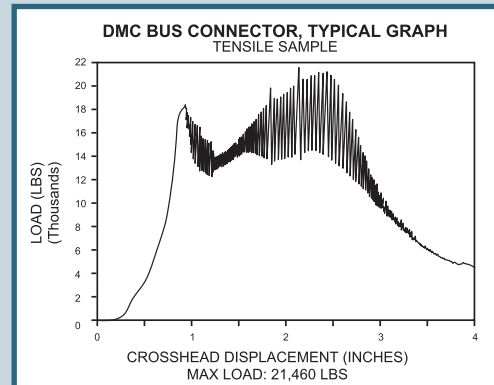
* Some parts may require additional shielding



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



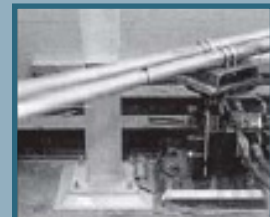
Current Cycle Testing



Temperature Rise Testing



Bend Testing

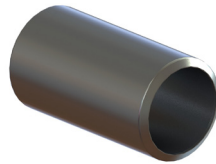


Vibration Testing

PLK1000

SPLICE

1" - 2½"	3" - 4"	5" - 6"	3" Weight
230kV	500kV	765kV	~4 lbs
Cu CPL1000	PLK5001	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 40 64

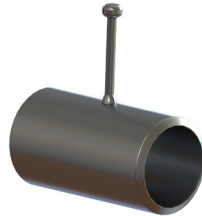
2-½" to 4" Aluminum Splice Reducer

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

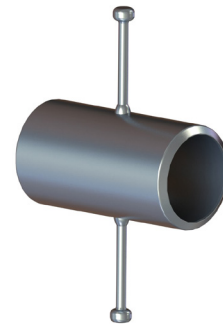
PLK1161D80

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



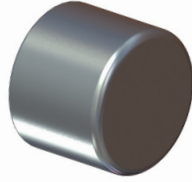
SPLIT FITTINGS FOR EASY INSTALLATION

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.

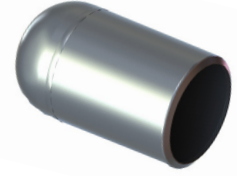
Look for this icon  and the corresponding base part number on our most popular split fitting connectors, or just replace the first digit (PLK1###) with a 5 (PLK5###) for your new split fitting part number.

APPLICATION NOTES

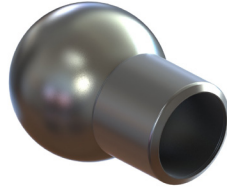
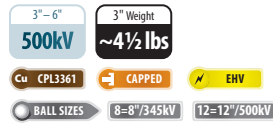


PLK1350**END CAP****ORDERING EXAMPLE****PLK1350D48**

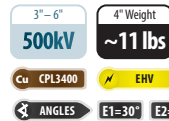
3" Aluminum End Cap

PLK1360**ROUNDED END CAP****ORDERING EXAMPLE****PLK1360D32**

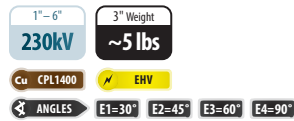
2" Aluminum Rounded End Cap

PLK3361**EHV BALL-STYLE END CAP****ORDERING EXAMPLE****PLK3361D64 - 12** Ball Diameter

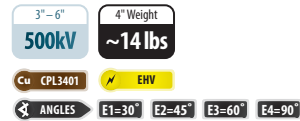
4" Aluminum EHV End Cap with 500kV, 12" Ball

PLK3400**EHV ELBOW WITH CORONA RING****ORDERING EXAMPLE****PLK3400D80 E3** Elbow Angle

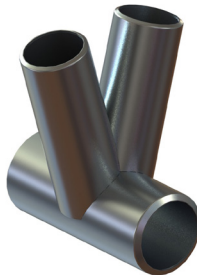
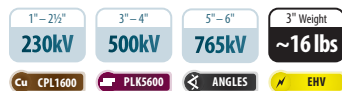
5" Aluminum EHV Elbow with Corona Ring at 60° Angle

PLK1400**ELBOW****ORDERING EXAMPLE****PLK1400D32 E1** Elbow Angle

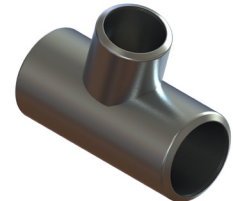
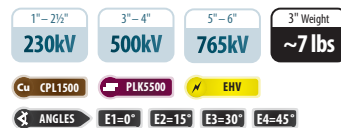
2" Aluminum Elbow at 30° Angle

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

PLK1500**TEE****ORDERING EXAMPLE****PLK1500D 16 40 E2**

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

PLK1100

4-HOLE LONGITUDINAL PAD TEE

1"–3"	3½"–6"	Pads	3" Weight
230kV	500kV	3"/4"	~7 lbs
Cu CPL1100	PLK1100	CAPPED	EHV
PAD SIZE	E1=4"x5"	E2=4"x5.5"	E3=4"x7"
	E5=3"x5"	E6=3"x5.5"	E7=3"x7"
		E8=3"x8"	



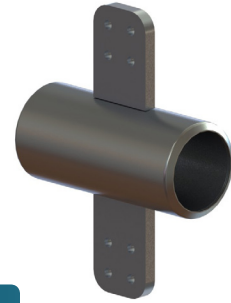
ORDERING EXAMPLE

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	PLK1120	CAPPED	EHV
PAD SIZE	E1=4"x5"	E2=4"x5.5"	E3=4"x7"
		E4=4"x8"	



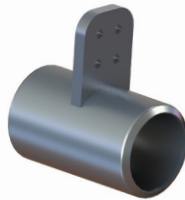
ORDERING EXAMPLE

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	PLK1150	CAPPED	EHV
PAD WIDTH	L1=3"	L2=4"	
PAD LENGTH	E1=4.5"	E2=5.5"	E3=7"
		E4=8"	



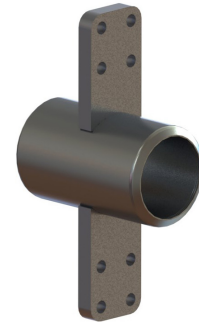
ORDERING EXAMPLE

PLK1150D32L1E3 — 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	PLK1170	CAPPED	EHV
PAD WIDTH	L1=3"	L2=4"	
PAD LENGTH	E1=4.5"	E2=5.5"	E3=7"
		E4=8"	



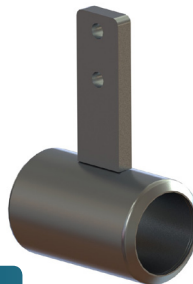
ORDERING EXAMPLE

PLK1170D80L2E3 — 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"



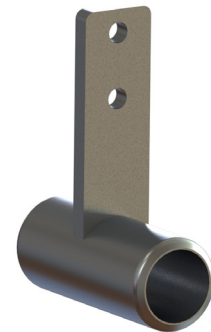
ORDERING EXAMPLE

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	PLK1250	CAPPED		
PAD LENGTH	E1=5"	E2=5.5"	E3=7"	E4=8"



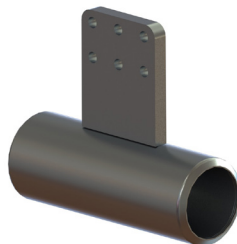
ORDERING EXAMPLE

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	PLK1106	CAPPED	EHV
PAD SIZE	E1=5"x5"	E2=5"x6"	E3=5"x7"
	E5=6"x5"	E6=6"x6"	E7=6"x7"
		E8=6"x8"	



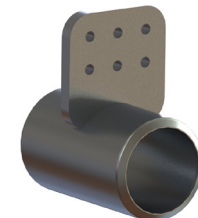
ORDERING EXAMPLE

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	PLK1156	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**

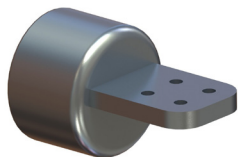
1" - 3"	3 1/2" - 6"	Pads	3" Weight
345kV	500kV	3" / 4"	~4 lbs

Cu CPL1850  ANGLES  EHV

 PAD WIDTH A = 3" B = 4"

ORDERING EXAMPLE

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

**PLK1880****4-HOLE OFFSET PAD TERMINAL**

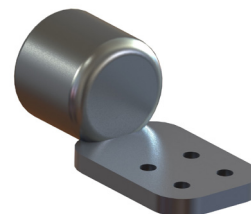
1" - 3"	3 1/2" - 6"	Pads	3" Weight
345kV	500kV	3" / 4"	~4 lbs

Cu CPL1880  ANGLES  EHV

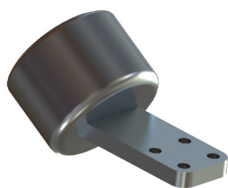
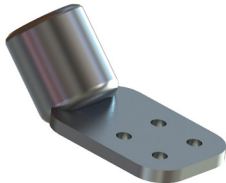
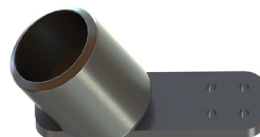
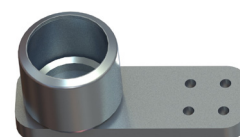
 PAD WIDTH A = 3" B = 4"

ORDERING EXAMPLE

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


**ANGLED PAD OPTIONS:**

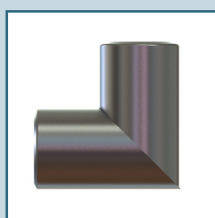
Copper, 3" pad, EHV and custom angles are available. Visit the product page on DMCPower.com for details.

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.**

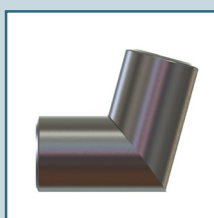
Of course we have standard 15°, 30°, 45°, 60°, 75° & 90° angled parts, but what happens when something doesn't match up exactly as designed, shifts over time or needs to be cut out and replaced?

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

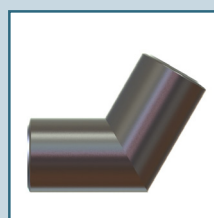
This icon  ANGLES indicates we have numerous options ready to be machined for the part listed, just call **888-SWAGE-NOW** with your specs and let DMC Power take care of the rest.



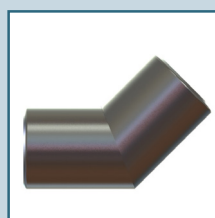
90° Angle



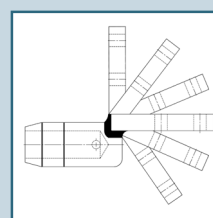
75° Angle



60° Angle



45° Angle

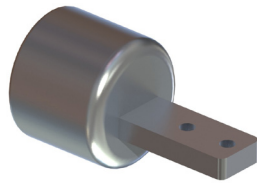


Custom Angles

PLK1855

2-HOLE CENTER FORMED PAD TERMINAL

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



ORDERING EXAMPLE

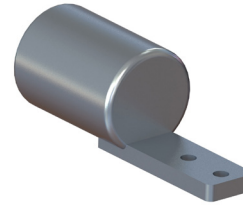
PLK1855D64

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

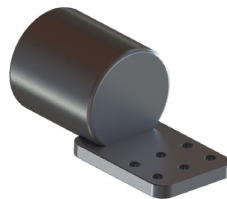
PLK1875D16

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

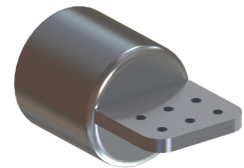
PLK1886D80 B Pad Width

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"			



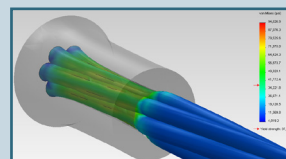
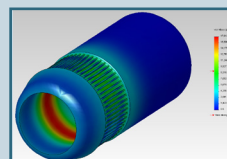
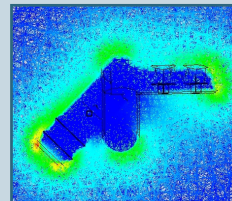
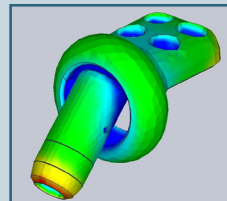
ORDERING EXAMPLE

PLK1856D96 A Pad Width

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

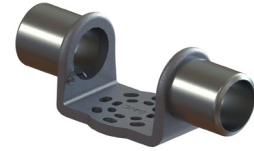
BOLT CIRCLES E12=3"/5" E23=5"/7"

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

3-1/2" 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

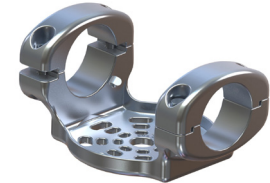
BOLT CIRCLES E123=3"/5"/7" E23=5"/7"

ORDERING EXAMPLE

Bolt
Circle

PLK3230D96 E23

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



SUPERIOR DESIGN

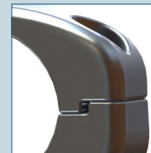


PLK2230 / PLK3230 Bus Support Features



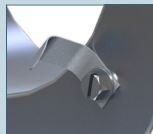
Slip Fit –

Loose fit that allows the bus to slide and expand.



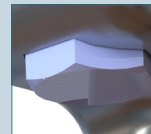
Rigid Fit –

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**

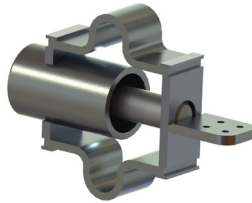
Cu CPL2600 ANGLES

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

ORDERING EXAMPLE

PLK2600D80 E1

5" Bus Expansion to
4", 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

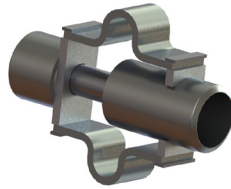
1" - 6" **230kV** 3" Weight **~18 lbs**

Cu CPL2810

ORDERING EXAMPLE

PLK2810D16

1" Bus to Bus Expansion



PLK3810

EHV BUS TO BUS EXPANSION

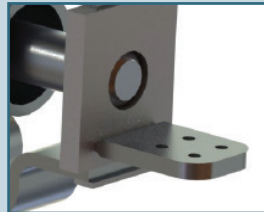
3" - 6" **500kV** 3" Weight **~36 lbs**

Cu CPL3810 EHV

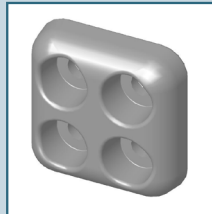
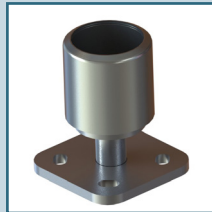
ORDERING EXAMPLE

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**

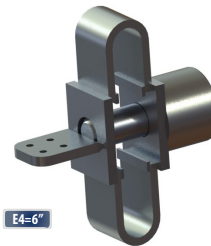
Cu CPL2602 ANGLES

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**

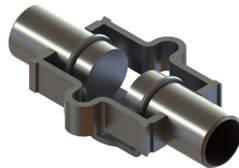
Cu CPL2700

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**

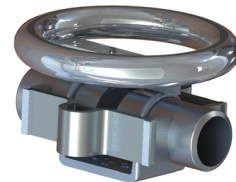
Cu CPL3700 EHV

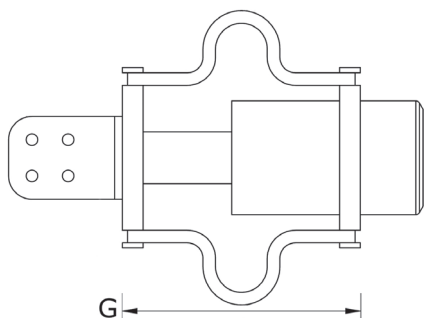
BOLT CIRCLES E1=3" E3=7" E12=3"/5" E23=5"/7"

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.

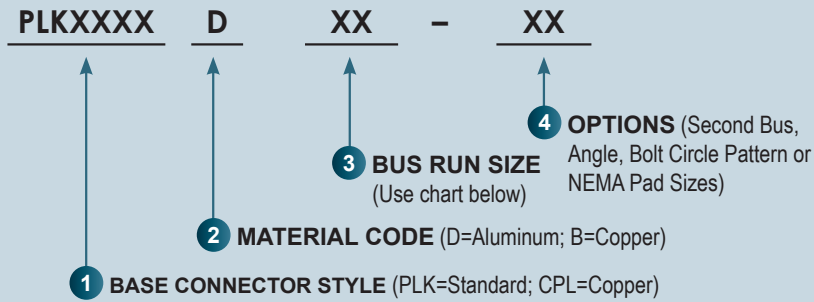
The "G" Dimension Movement in the chart below shows the movement range and installation point at a particular temperature. These are based on the assumption that the total length between rigid supports is 90 feet or less.

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

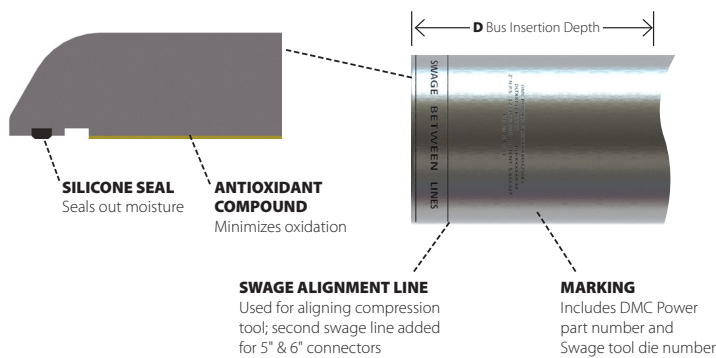
BUS CONNECTOR ORDERING NOMENCLATURE



STANDARD EXAMPLE:

PLK1000	D	16
↑	↑	↑
Bus Splice	Aluminum	1"

STANDARD BUS SIZES



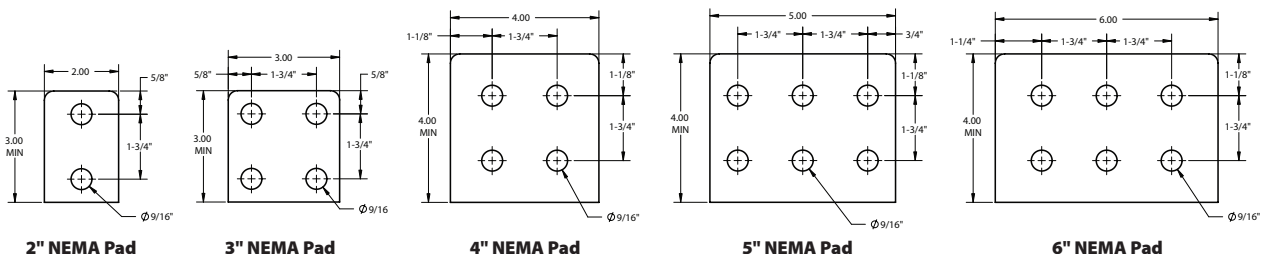
DMC Size	Bus Size	Fitting O.D.	D Min.	D Max
16	1"	2.00	1.50	2.00
24	1-1/2"	2.50	1.50	2.00
32	2"	3.00	2.00	2.50
40	2-1/2"	3.75	2.00	2.50
48	3"	4.37	3.00	3.50
56	3-1/2"	5.00	3.00	3.50
64	4"	5.50	3.00	3.50
80	5"	6.50	5.00	5.75
96	6"	8.00	6.00	6.75

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**

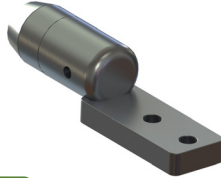
Up to 230kV	Pads 2"	2" OD Weight ~3 lbs
Cu CCL9100	ANGLES	

**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**

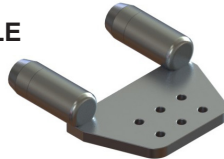
Up to 230kV	Pads 2"	2" OD Weight ~3 lbs
Cu CCL9202	ANGLES	

**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**

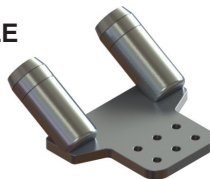
Up to 345kV	Pads 5"/6"	2" OD Weight ~7 lbs
Cu CCL9662	5" CPLK9652	ANGLES

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

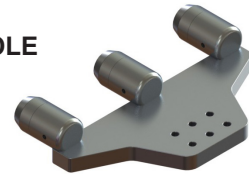
Up to 345kV	Pads 5"/6"	2" OD Weight ~7 lbs
Cu CCL9664	5" CPLK9654	ANGLES


**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

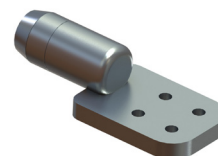
Cu CCL9440 3" CPLK9430 ANGLES CEHV9440

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

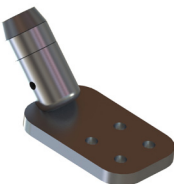
Cu CCL9442 3" CPLK9432 ANGLES CEHV9442

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

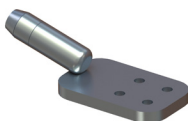
Cu CCL9444 3" CPLK9434 ANGLES CEHV9444

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

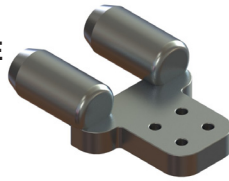
DUAL BARRELS TO 4-HOLE
OFFSET PAD TERMINAL

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

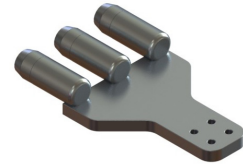
TRIPLE BARRELS TO 4-HOLE
OFFSET PAD TERMINAL

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

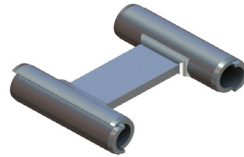
CL702

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

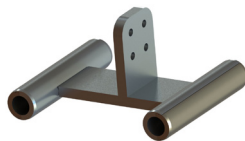
Cable Run Size
Spacing Inches



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

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

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!

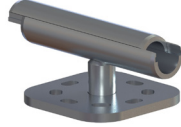
CL451**SPLIT RUN SINGLE CABLE SUPPORT**

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

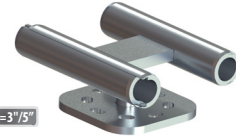
CL452**SPLIT RUN DUAL CABLE SUPPORT**

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

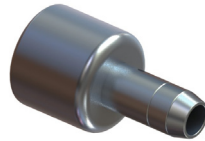
2-1/2" Bus Run to Dual 1590 Falcon ACSR Taps; Aluminum

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

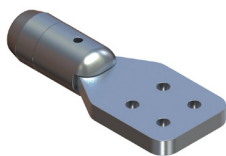
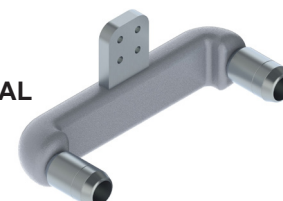
Cu CCL489 ANGLES EHV

**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.


CEHV9440**EHV 4-HOLE CENTER
FORMED PAD TERMINAL**Up to
345kV 2" OD Weight
~2 lbs**ORDERING EXAMPLE****CEHV9440D12720**1272 Narcissus AAC Barrel to 4",
4-Hole Center Formed Pad; EHV**CEHV9442****EHV 4-HOLE OFFSET
PAD TERMINAL**Up to
500kV 2" OD Weight
~6 lbs**ORDERING EXAMPLE****CEHV9442D22500**2156 Bluebird ACSR Barrel to 4",
4-Hole Offset Pad; EHV**CEHV9444****EHV 4-HOLE 45° PAD
TERMINAL**Up to
500kV 2" OD Weight
~6 lbs**ORDERING EXAMPLE****CEHV9444D10000**1000 Hawkweed AAC Barrel to 4",
4-Hole 45° Pad; EHV**CEHV9642****EHV DUAL BARRELS TO 4-HOLE
CENTER FORMED PAD TERMINAL**Up to
500kV 2" OD Weight
~10 lbs**ORDERING EXAMPLE****CEHV9642D22500**Dual 2250 Sagebrush AAC Barrels to
4", 4-Hole Center Formed Pad; EHV**CEHV9644****EHV DUAL BARRELS TO
4-HOLE 45° PAD TERMINAL**Up to
500kV 2" OD Weight
~11 lbs**ORDERING EXAMPLE****CEHV9644D22500**Dual 2156 Bluebird ACSR Barrels to 4",
4-Hole 45° Pad; EHV**CEHV9649****EHV DUAL BARRELS TO
4-HOLE 90° PAD TERMINAL**Up to
500kV 2" OD Weight
~12 lbs**ORDERING EXAMPLE****CEHV9649D09540**Dual 900 Ruddy ACSR Barrels to 4",
4-Hole 90° Pad; EHV

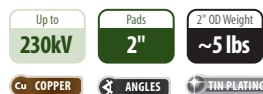
- Bolt shields and corona rings are available
- Check with factory on cable sizes, spacing and for special EHV applications

**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**

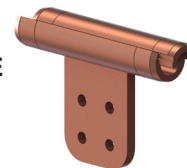
Look for this symbol  below the parts to know they are rated for certain EHV applications or let us design a custom EHV connector for your specific needs.

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

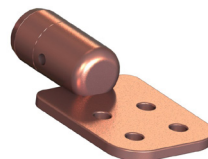
500 MCM Bare Copper Barrel to 2", 2-Hole Offset Pad

**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**

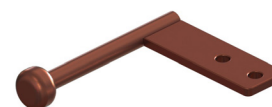
Dual 1000 MCM Bare Copper Barrels to 4", 4-Hole Offset Pad

**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.

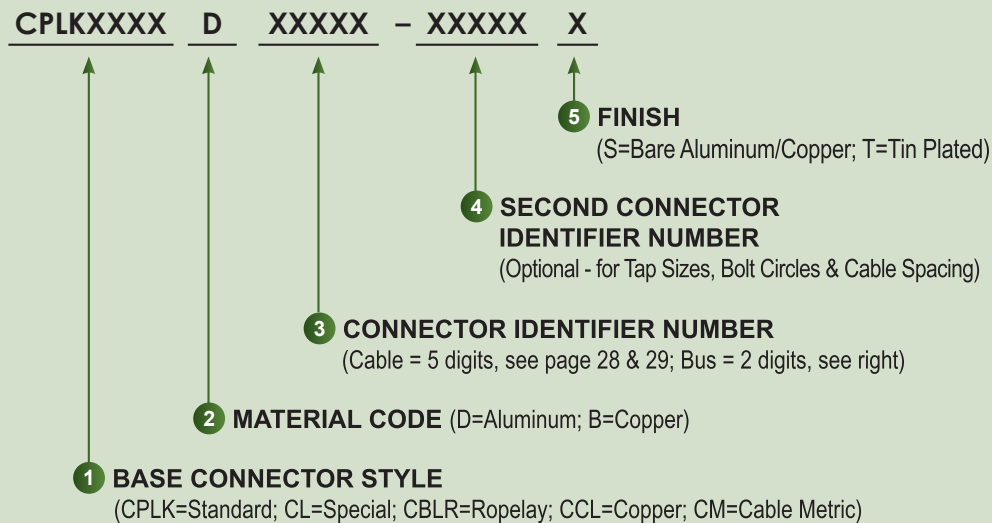
- 1 Find the AAC/ACSR conductor being used
- Use the corresponding Connector Identifier Number to fill out the part number, see page 30
- 2
- 3 Note the Head Assembly size based on the Connector Identifier Number

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						
	61/w	Flag	636.0	18/1	Kingbird	07000				
				36/1	Swift					
715.5	37/w	Violet	605.0	24/7	Peacock	07155				
	61/w	Nasturtium			26/7				Squab	
750.0	37/w	Petunia	605.0	30/7	WoodDuck	07500	DLT45CLHA08745	1.875		
	61/w	Cattail	636.0	30/19	Teal					
				24/7	Rook					
795.0	37/w	Arbutus		26/7	Grosbeak	07950				
				30/7	Scoter					
				30/19	Egret					
	61/w	Lilac	666.6	24/7	Flamingo					
			26/7	Gannet						
			715.5	24/7	Stilt					
			54/7	Crow						
874.5	37/w	Anemone	795.0	36/1	Coot	08745				
	61/w	Crocus	45/7	Tern						
					715.5				26/7	Starling
900.0	37/w	Cockscomb	795.0	30/19	Redwing	09000			DLT45CLHA11130	2.000
	61/w	Snapdragon		24/7	Cuckoo					
				54/7	Condor					
954.0	37/w	Magnolia	900.0	26/7	Drake	09540				
	61/w	Goldenrod		30/19	Mallard					
1000.0	37/w	Hawkweed		45/7	Ruddy	10000				
	61/w	Camellia	54/7	Canary						
			874.5	54/7	Crane					
1033.5	37/w	Bluebell	954.0	45/7	Rail	10335				
	61/w	Larkspur		54/7	Cardinal					
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				
			1192.5	61/w	Columbine	45/7			Bunting	13515
1272.0	61/w	Carnation				45/7			Grackle	
			1431.0	61/w	Carnation	45/7			Bittern	14310
1510.5	61/w	Gladiolus				54/19			Pheasant	
			1431.0	61/w	Gladiolus	45/7			Dipper	15105
1590.0	61/w	Coreopsis				54/19			Martin	
			1750.0	61/w	Jessamine	45/7			Bobolink	15900
1510.5	61/w	Jessamine				54/19			Plover	
			1590.0	61/w	Jessamine	45/7			Nuthatch	17500
1590.0	61/w	Jessamine				54/19			Parrot	
			1590.0	61/w	Jessamine	45/7			Lapwing	18000
1590.0	61/w	Jessamine				54/19			Falcon	
			2000.0	91/w	Cowslip	1780.0			84/19	Chukar
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

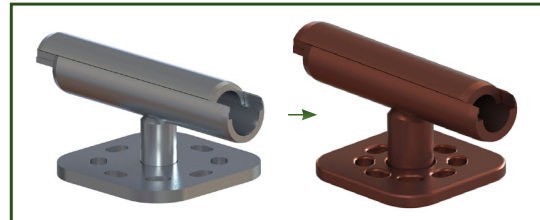
STANDARD EXAMPLE:			
CPLK9209	D	00006	S
↑ 2-Hole 90° Terminal	↑ #6 Peachbell AAC Cable	↑ Bare Aluminum	

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

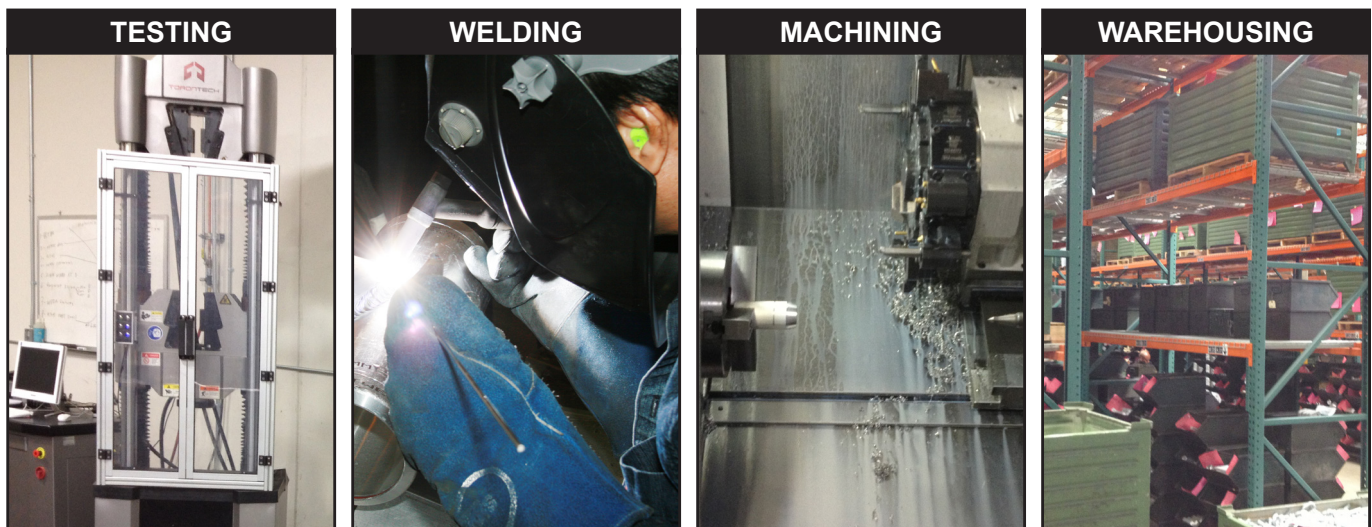
BARE COPPER CONDUCTOR CONCENTRIC LAY STRANDED		Connector Identifier Number
SIZE (AWG / kcmil)	STR	
600	61	06000
650	37	06500
700	61	07000
750	61 & 91	07500
800	61	08000
900	37	09000
1000	61 & 91	10000
1250	91 & 127	12500
1500	91 & 127	15000
1750	61 & 127	17500
2000	127 & 169	20000

IF YOU NEED IT, WE CAN BUILD IT.



- Custom designed fittings for any size job
- Low minimum order quantity
- Quick turn-around time
- 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



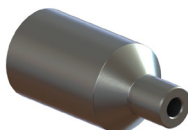
Split Cable Run
to Bus Tap



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

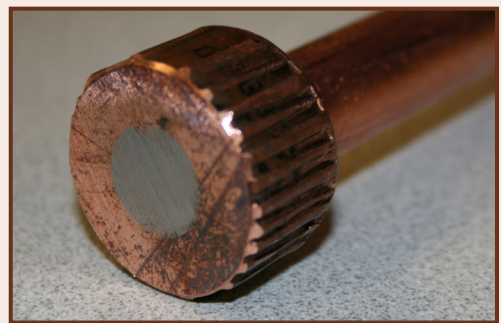
Push-button operation is simple, consistent and repeatable. Cold compression Swaging requires no special protective gear by eliminating heat, open flames and toxic fumes.

• 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 9001:2015 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

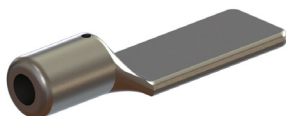
1000 MCM Barrel to 2", 2-Hole Offset Pad; Tin-Plated

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

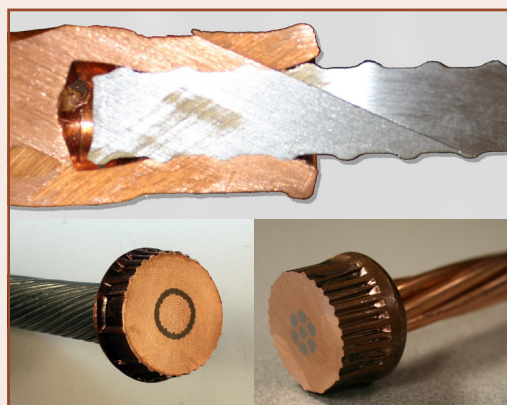
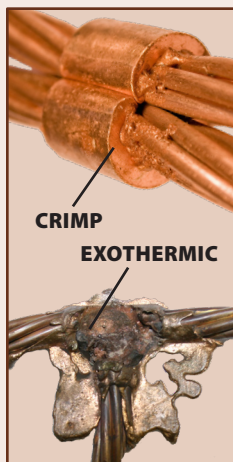
GC912B050-050T

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

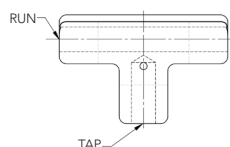
1 1/4" OD Weight
~1 1/2 lbs

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

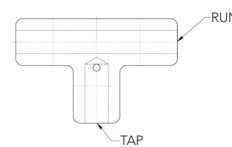
1 1/4" OD Weight
~1 1/2 lbs

Cu COPPER TIN PLATING

ORDERING EXAMPLE

GC731B002-025

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



GC741 THRU HOLE CROSS

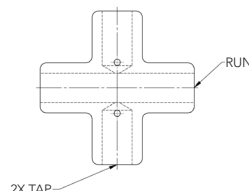
1 1/4" OD Weight
~2 lbs

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

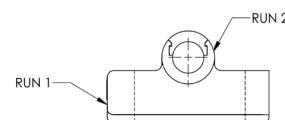
1 1/4" OD Weight
~2 lbs

Cu COPPER SPLIT TIN PLATING

ORDERING EXAMPLE

GC742B003-003

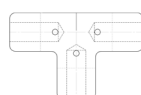
Offset Cross with 3/0 AWG and 3/0 AWG Split Runs



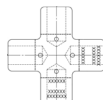
ALSO AVAILABLE:

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

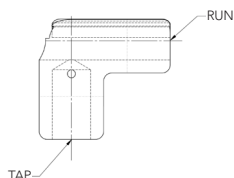
1 1/4" OD Weight
~1 1/4 lbs

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

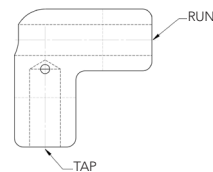
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER TIN-PLATING

ORDERING EXAMPLE

GC736B02G-02G

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



GC759 OFFSET DUAL SPLIT ELBOW

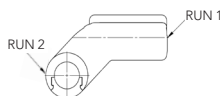
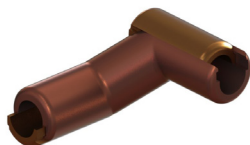
1 1/4" OD Weight
~1 1/4 lbs

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

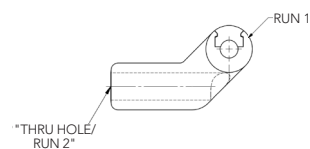
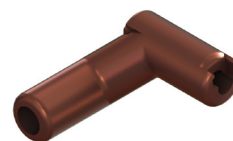
1 1/4" OD Weight
~1 1/4 lbs

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

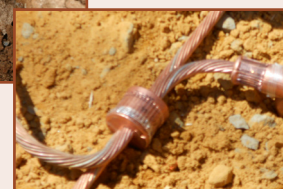
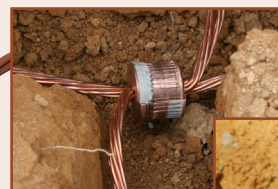
SPLIT
PARALLEL



PARALLEL

CROSS

TEE



GC739 SPLIT ELBOW



ELBOW



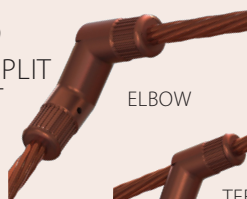
TEE



GROUND RODS

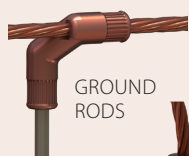
GC759

DUAL SPLIT
OFFSET
CROSS



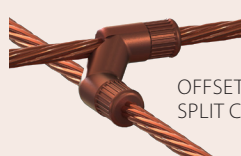
ELBOW

TEE



GROUND
RODS

RISER



OFFSET
SPLIT CROSS



GC721 SPLIT PARALLEL

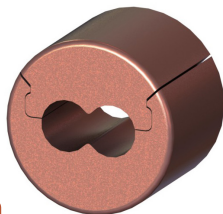
1 1/4" OD Weight
~1 1/4 lbs

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

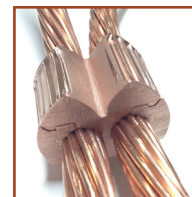
1 1/4" OD Weight
~1 1/4 lbs

Cu COPPER TIN-PLATING

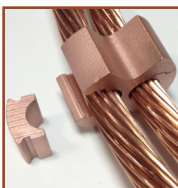
ORDERING EXAMPLE

GC720B025-500

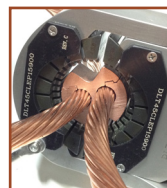
250 MCM to 1/2" Steel
Rod Splice



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.

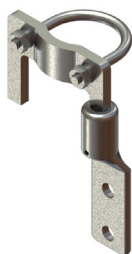
- GC920** – 2-Hole Terminal
- GC910** – 1-Hole Terminal
- GC740** – 4-Tap Cross
- GC729** – 2-Tap Elbow
- GC731** – Thru Run Tee
- GC721** – Split Parallel
- GC743** – Offset Split Elbow
- GC739** – Split Run Elbow
- GC759** – Offset Dual Split Elbow
- GC736** – Thru Run Elbow
- GC720** – Splice
- GC741** – 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

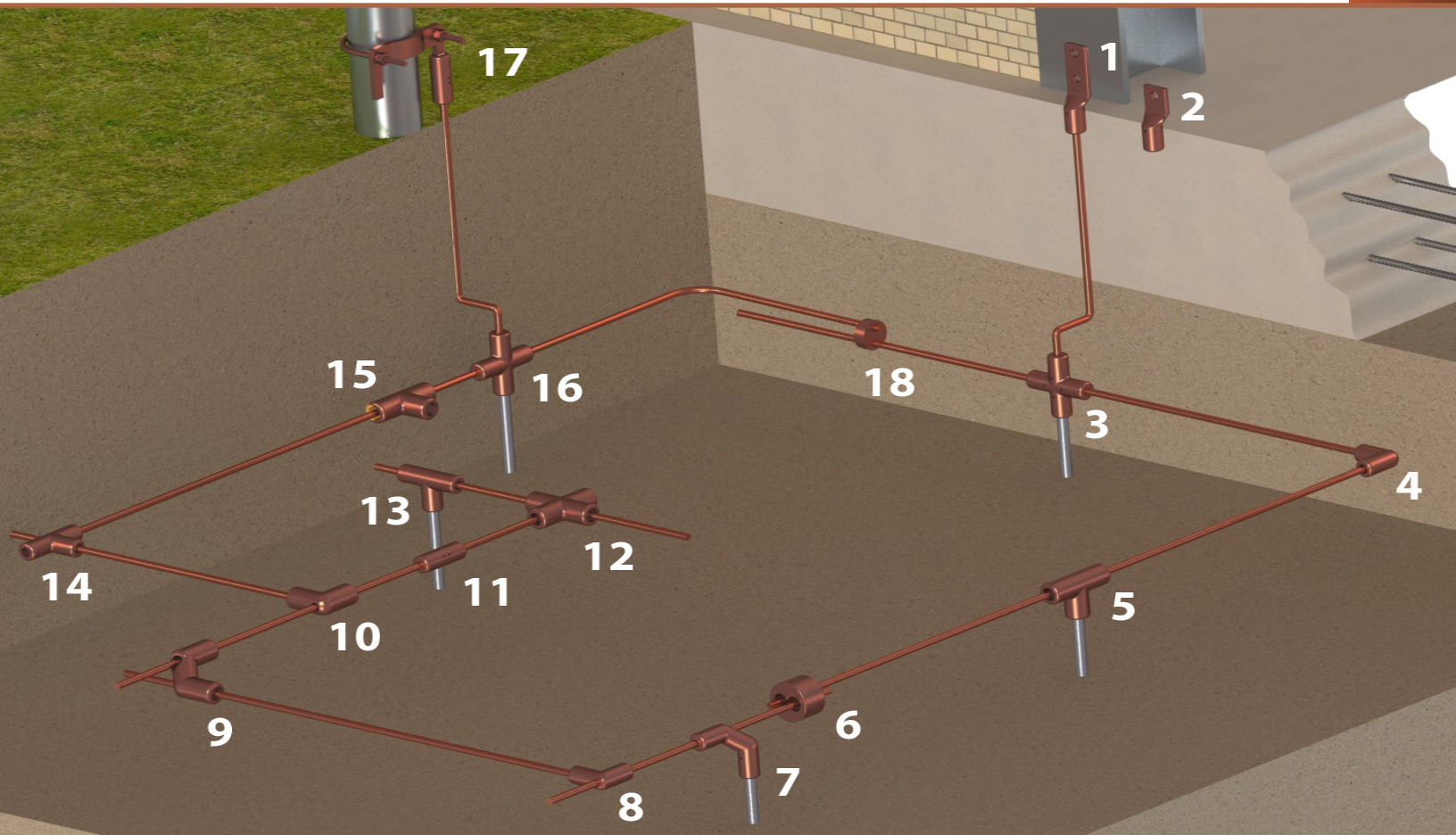


ORDERING EXAMPLE

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

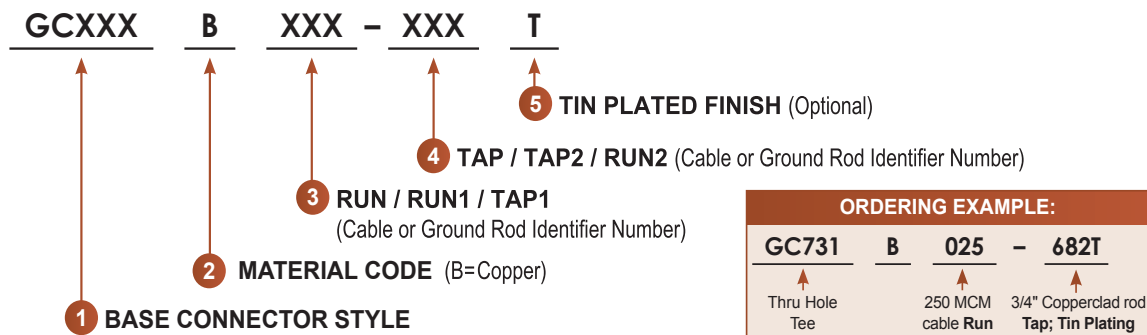
- Any combination of wire and/or rod connector is available
- The largest designator determines the part OD
- Consult DMC Power for Metric Rods and Rebar identifier code

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		
4/0 Solid Wire					
4/0 AWG	7/#5	96.8, 116 & 120 (Compacted Wires)	004		
250 MCM	19/#9	120 & 134	025	1.50	2.00 for parallel
#4 AWG	1/#4 & 3/#10	14.1, 16, 17.8 & 19.6	04G		2.25 to 2.75 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	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		
4/0 Solid Wire					
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		
750 MCM	-	-	075	1.875	
1000 MCM	-	500	100		

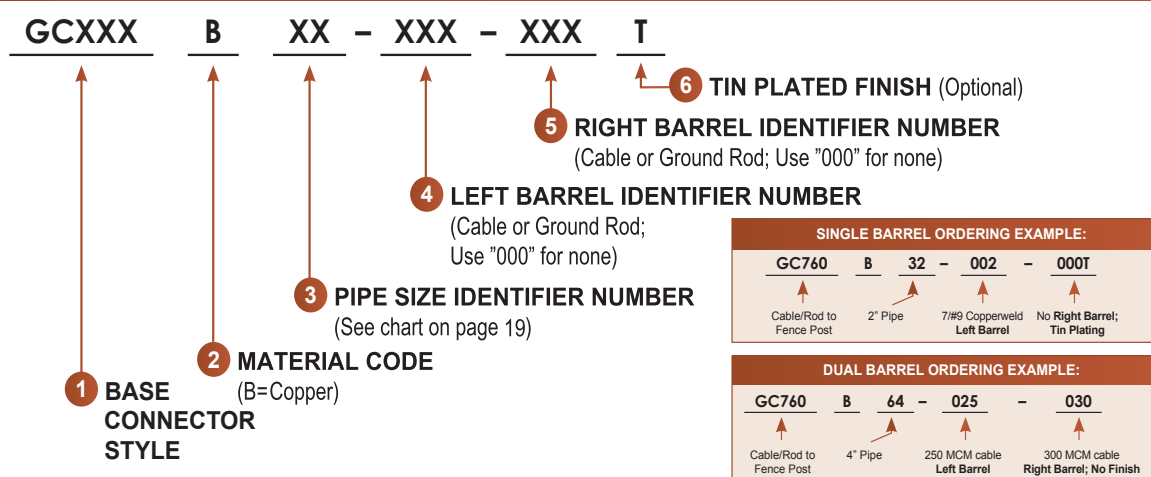
Ground Rod				
Size	Material Type	Connector Identifier Number	Connector O.D. (±.015)	
3/8"	#3 Steel rebar	003	1.25	2.00 for parallel
1/2"	Copperclad-plain & sectional with 1/2" thread	025		
1/2"	Steel & copperclad sectional with 9/16" thread & #4 Steel rebar	500		
5/8"	Copperclad-plain & sectional with 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 9001:2015 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



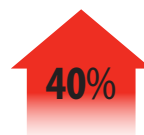
360° compression with just the push of a button

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



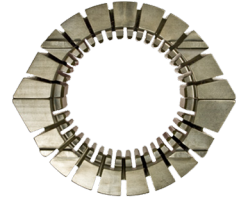
HIGHER THERMAL
CONDUCTIVITY
RATING

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

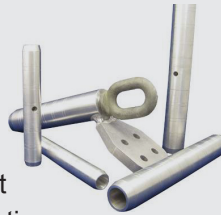


- Yields a 20% area of reduction for superior electrical performance



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 **DR** = ACCC

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

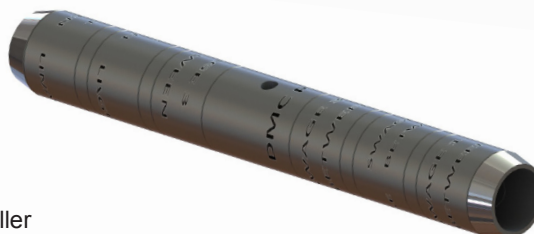


Dx96

SPLICE CONNECTOR



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

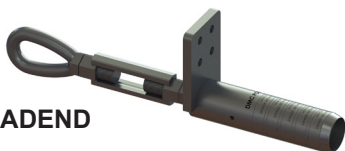


Dx89

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

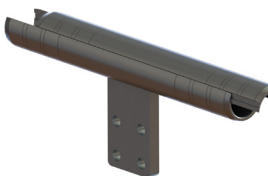


Dx92

TAPS



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

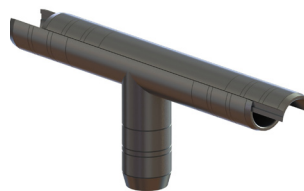


Dx93

TEES



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



Dx94

JUMPER TERMINALS

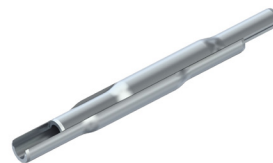
- Connects to Deadend NEMA pads to keep the current flowing
- Standard and custom angles available
- Jumper Terminal included with Deadend orders or available separately



Dx95

REPAIR SLEEVES

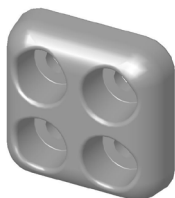
- Provides a lifelong Swage connection for weak points in cable runs
- Split fitting design slides easily over existing cable



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

	SPLICES				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	0B
Daffodil	350	19	0.679	125	0B
Canna	397.5	19	0.723	125	05
Goldentuft	450	19	0.769	125	05
Cosmos	477	19	0.792	150	08
Syringa	477	37	0.795	150	08
Zinnia	500	19	0.811	150	08
Hyacinth	500	37	0.814	150	08
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	200	30
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	56
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	SINGLE TERMINAL	DOUBLE TERMINAL
ACSR Single Stage	DC99	DC98	DC97	DC94	DC84
ACSR Two Stage	DC79	DC78	DC77		

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

Contact Factory for Adjustable Deadends

► 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	0J	0J	
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	09	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	21	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	37	37	088
Gannet	666.6	26/7	1.014	188	38	38	
Stilt	715.5	24/7	1.036	188	37	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	SINGLE TERMINAL	DOUBLE TERMINAL
ACSS	DJ79	DJ78	DJ77	DJ94	DJ84

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

Contact Factory for Adjustable Deadends

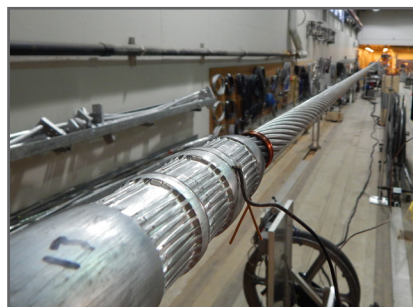
► Step 2 & 3: Find the ACSS Conductor you're using and select the corresponding outer aluminum **BARREL DIE #** and **CABLE CODE #** (NOTE: Internal Die # required for 2-Stage installation but not used to build the part number)

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	
Oortolan/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	SINGLE TERMINAL	DOUBLE TERMINAL
ACSS TW - EA	DL79	DL78	DL77	DL94	DL84
ACSS TW - ED	DQ79	DQ78	DQ77	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

Contact Factory for Adjustable Deadends

- **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	
Canary/ACSS/TW	900	13	20/7	1.055	200	52	
Rail/ACSS/TW	954	7	32/7	1.061	200	50	100
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	
Bluejay/ACSS/TW	1113	7	33/7	1.143	225	58	
Bunting/ACSS/TW	1192.5	7	34/7	1.181	225	62	113
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	
Falcon/ACSS/TW	1590	13	42/19	1.410	275	78	125
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	100
Genesee/ACSS/TW	1158	7	34/7	1.165	200	36	
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	

ACSS TW CABLE CHART

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	125	38
Alumaweld	7 No. 6	0.486	22,730	125	38
Alumaweld	19 No. 10	0.509	27,190	125	38
Alumaweld	7 No. 5	0.546	27,030	125	42
Alumaweld	19 No. 9	0.572	34,290	125	44

STATIC WIRE CABLE CHART

ACCC CABLE SELECTOR CHART

► **Step 1:** Select your base connector style

SINGLE PAD DEADEND	DUAL PAD DEADEND	SPLICE	JUMPER TERMINAL	TEE TAP
DR99	DR97	DR96	DR94	DR92

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

ACCC - ATSM	kcmil	mm ²	ACCC - International	Kcmil	mm ²	BARREL DIE #	CABLE CODE #
-	-	-	Rijeka	222.0	112.4	200	0A
-	-	-	Silvassa	242.0	122.7	200	0B
Pasadena	305	154.4	Helsinki	297.0	150.6	200	0C
-	-	-	Jaipur	307.0	155.7	200	0D
-	-	-	Zadar	350.0	177.4	200	0E
-	-	-	Chandpur	362.8	183.8	200	0F
Oceanside	383	194.2	Rovinj	371.0	187.8	200	02
Linnet	430	218.1	Copenhagen	434.0	219.9	200	04
Oriole	439	222.3	Reykjavik	440.0	223.1	200	06
-	-	-	Monte Carlo	451.0	228.5	250	08
Waco	454	230.1	Glasgow	467.0	236.7	200	10
-	-	-	Gdansk	491.0	236.7	200	11
Laredo	530	268.4	Casablanca	540.0	273.6	200	12
Irving	609	308.8	Oslo	619.0	313.8	250	14
Hawk	611	309.7	Lisbon	623.0	315.5	200	16
Dove	714	361.5	Amsterdam	725.0	367.4	200	22
Amarillo	785	397.6	-	785.0	397.6	250	28
-	-	-	Cordoba	788.0	399.4	200	30
-	-	-	Leipzig	802.0	406.4	250	32
Grosbeak	821	416.2	Brussels	832.0	421.4	200	34
Lubbock	904	458.0	Stockholm 2L	914	463.3	250	36
Condor	-	498.0	Stockholm 3L	895.0	453.7	250	38
Galveston	1011	512.4	Warsaw	1002.0	507.5	250	39
Drake	1026	519.7	Dublin	1035.0	524.5	250	40
Curlew	1033	523.4	Mahakam	1075.0	544.9	250	42
Plano	1059	536.8	Hamburg	1078.0	546.4	250	44
-	1073	543.5	Kolkata	1073.0	543.5	250	46
Corpus Christi	1103	558.9	Milan	1120.0	567.7	250	48
Arlington	1151	583.2	Rome	1169.0	592.5	250	50
Cardinal	1222	619.1	Vienna	1242.0	629.2	250	52
Fort Worth	1300	658.9	Budapest	1319.0	668.3	250	56
-	-	-	Mumbai	1353.0	685.4	250	57
El Paso	1350	684.0	Prague	1363.0	690.7	250	58
Beaumont	1429	723.9	Dhaka	1429.0	723.9	250	60
-	-	-	Munich	1447.0	733.2	250	60
-	-	-	Warwick	1479.0	749.5	250	62
San Antonio	1475	747.3	London	1498.0	759	250	64
Bittern	1582	801.4	Paris	1606.0	813.7	250	66
-	-	-	Bordeaux	1739.0	880.9	250	68
Dallas	1795	909.5	Antwerp	1865.0	944.9	250	70
Houston	1927	976.6	Berlin	1986.0	1006.5	250	72
Lapwing	1949	987.5	Madrid	1999.0	1013.1	250	74

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)
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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		PAD OPTIONS		TOTAL ANGLE	
No Terminal	NT	2", 2H Pad	E1	DEADEND TO JUMPER MEASURED FROM VERTICAL	
Horizontal Eyeloop	H	3", 4H Pad	E2	00°	00
EHV	EHV	4", 4H Pad	E3	15°	15
Bolt Package	BK	5", 6H Pad	E4	45°	45
2 Conductor Spacing	XS	6", 6H Pad	E5	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

DC79 – 188 – 40 – H – 00

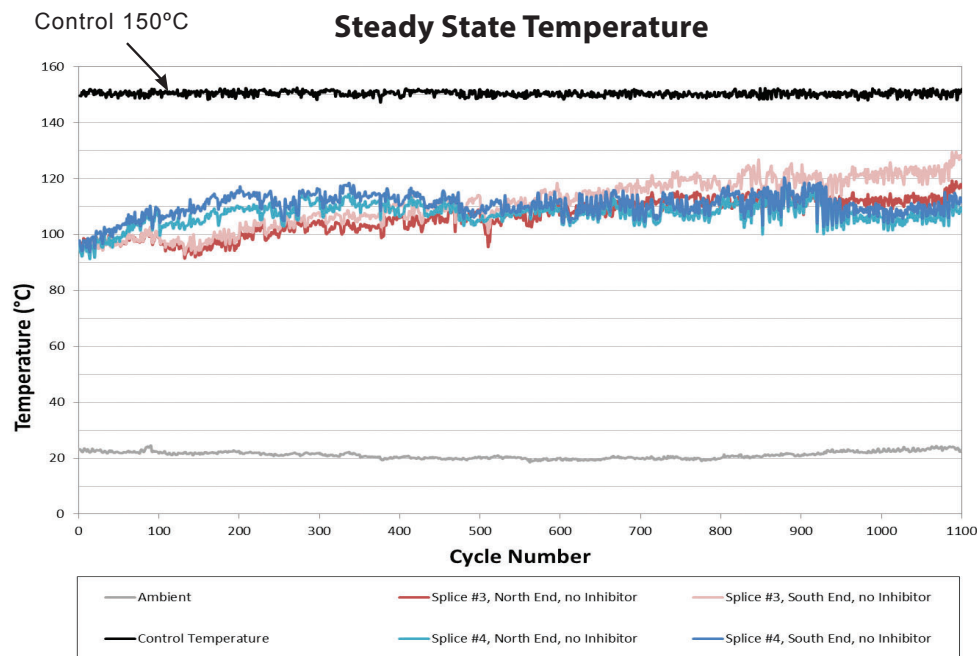
↑ ↑ ↑ ↑ ↑

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

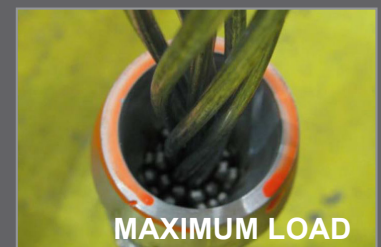
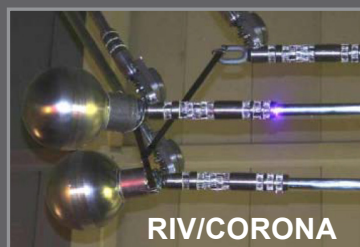
TESTED & CERTIFIED FULL TENSION CONNECTORS

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 1100 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**

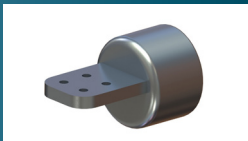
**EXTENSIVE TESTING ASSURES PEAK
PERFORMANCE IN ALL ENVIRONMENTS**



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BUS



CABLE



GROUNDING



FULL TENSION



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VERSION # 04/25