

# **CABLE CONNECTORS**

# **STANDARD, SPECIAL & EHV**







**DMCPOWER.COM** 

888-SWAGE-NOW



# **CABLE CONNECTOR SYSTEM**

### State-of-the-Art Radial Swage Technology

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

#### DMC Power Cable Connector Advantages

#### SAVE TIME

Use just one 360° radial compression Swage instead of multiple crimps.

#### ACHIEVE COMPLETE 360° CONTACT

Swaging eliminates voids and maximizes conductivity by compressing the interior of the fitting around the exterior of the cable.

#### FINISHED PADS

Both sides of the pad can be used equally as a connection surface.

#### TIN PLATING

Available on all configurations for dissimilar metals and to deter theft on copper equipment applications.

#### SIMPLE ONE-STEP INSPECTION

Easily inspect and measure your Swage anytime with the handheld "Go/No-Go" Inspection Gauge.

#### CUSTOM SOLUTIONS AVAILABLE

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



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



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

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

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

### **CABLE CONNECTOR QUALIFICATIONS**

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



**CPLK9100** 

TERMINAL, 1 HOLE, CENTER FORMED

#### CPLK9200 TERMINAL, 2 HOLE, CENTER FORMED

Sizes Available: Identifier Numbers 00006 - 25000



PART NUMBER	- "Af"	- 7A2*	12*		]	PART NUMBER	- <b>"</b> A1"	•A2*	•B'	'C'
CPLK920000006	7.248	3.573	.227	.500		CPLK9200D07155	8.643	4.993	1.047	1.753
CPLK9200D00004	7.125	3,450	.277	.500		GPI K9200D07600	3.799	5.249	1.068	1.875
CPLK9200000002	7.585	3.910	.340	.750	1	CPLK9200D07960	883.6	5.139	1.113	1.875
CPLK9200000001	7.499	3.824	.375	.750		GP1K9200D08745	3.563	5.013	1.164	1.975
CPLK9200000010	7.158	3.483	.412	.750		CPUK9200D09000	8.933	-5.283	1.179	2.000
CPLK9200000020	350.6	4.508	.458	1.000		GPUK9200D09540	3.852	5.202	1212	2.000
CPLK9200D00030	7.919	4.369	.515	1.000		CPDR9200D/10000	3.798	5.148	1234	2.000
CPLK9200D00040	7.742	4.182	.587	1.000		GP1K9200D10005	3.739	5.065	1.258	2.000
CPLK9200D02500	7.612	4.062	.640	1.000	L	CPLK9200D11130	3.620	4.979	1.306	2.000
CFLK9200D02339	8.230	4.700	.659	1.250	]	CELK9200011925	9.145	5.496	1.343	2.250
CPLK9200D03000	8.141	4,611	.665	1.250		CPLK9200D12720	9.037	5.387	1.387	2.250
CFLK9200D00500	8.018	4,488	.745	1.250	1	CPLK9200D13515	5.933	5.236	1.428	2,250
CPLK9200D03975	7.833	4.363	.800	1.250		CPLK9200D14310	3.840	5.190	1.467	2.250
CFLK9200DC4500	8,445	4.895	.837	1.500		CPLK9200D15105	3.747	5.097	1.505	2,250
CPLK9200D04770	8.354	4,834	.862	1.500		CPLK9200D15900	8.653	5.003	1.543	2.250
CFLK9200DC5000	8.352	4.802	.875	1.500		CPLK9200017530	3.513	4.333	1,600	2.250
CPLK9200D05565	9.224	4.674	.927	1.500	1.	CPLR9200D18000	8,430	4.790	1.634	2.250
CFLK9200DC6000	5.757	5.207	.960	1.750		CFLK9200020000	9.744	3.094	1.705	2.750
CPLK9200DC6360	9,691	5.141	.987	1.750		CPLK9200022500	9.499	5.840	1.805	2.750
CPLK9200EC7000	8,560	5.030	1.032	1.750		CPLK9200025000	9.285	5.815	1.900	2.750

### CPLK9430 TERMINAL, 3" WIDE, 4 HOLE, CENTER FORMED

Sizes Available: Identifier Numbers 00006 - 25000



702\*

4,993

5.249

5.138

5.013

5.283

5.202

5.148

5.089

4,979

5.495

5.387

5.286

5.190

5.097

5.003

4.863

4,780

6.094

0.049

5.615

13° 10'

347 1.750

.358 1.875

1.113 1.875

.184 1.875

179 2.000

212 2.000

234 2.000

258 2.000

1.303 2.000

1.343 2.253

1.387 2.253

1.428 2.253

1467 2.253

1505 2.250

1543 2,250

1.600 2,250

1.706 2.750

1.800 2.750

1,900 2,750

1.634 2.250

PART NUMBER	"A1"	'A2"	'B'	10°	PART NUMBER	'Af'
CFLK9430D00005	7.240	3.573	227	- 500	CPLK9430007155	8.543
CPLK9430D00004	7.125	3,450	.20	.500	CPLK9430D07500	8.799
CFLK9430D00002	7.595	3.910	-340	- 700	CFLK9430007950	8,688
CPLK9430D00001	7,449	3.824	.375	.750	CFLK9400008745	8.583
CFLK9430D00010	7.158	3,463	412		CFLK9430009000	8,933
CFLK9430D00020	8.059	4.509	.455	1.000	CFLK3430D33540	8.852
CFLK9430D00030	7.919	4.339	.515	1.000	CPLK9430D10000	8,768
CFLK9430DC0040	7.742	4.192	.587	1.000	CELK3430D10335	8.739
CPLK\$430DC2500	7.612	4.032	1340	1.000	OPL-K9436D11130	8.629
CFLK6430DC2888	8.230	4.700	.659	1.250	CP_K9430D11925	9.145
CPLK\$430DC3000	8.141	4.611	.395	1,250	CPLK9430D12723	9.037
CPLK6430DC350C	8.018	4.488	.745	1.250	CPLK9430D13515	8.936
C.PLK\$430DC3975	7.883	4.353	.800	1.250	OPLK9430D14313	8.640
CPLK9430D04500	8.445	4.895	.837	1.500	CPLK9430D15105	8.747
C.PLK£430DC4770	8.384	4.834	.532	1.500	GPLK9430D15500	-8,003
CPLK9430D05000	8.352	4.802	.875	1.500	CPLK9430D17500	8.513
OPLK0430D05565	8.224	4.874	.927	1.500	CPLK9430D18000	8.430
GPLK9430D06000	8,757	5.207	.960	1.750	GPI K9430D20000	9.744
OPLK0430D06360	8.681	5.141	.987	1.750	CPLK9430D22500	9,499
GP_K9430D07000	382.8	6.030	1.032	1.750	CP_K9430D25000	9.265

CPLK9440 TERMINAL, 4" WIDE, 4 HOLE, CENTER FORMED

Sizes Available: Identifier Numbers 00006 - 25000



FART NUMBER	141	*N2	'B'	$C_{-}$
OPLK\$440D07500	9,700	5.240	1.958	1.875
GPLK9440D07950	-9.688	5.138	1.113	1.875
CPLI02440D08745	0.563	5.013	1.164	1.875
CPLK9440D06000	9.933	5.283	1.179	2.000
CPLK9440D06540	0.852	5.202	1.212	2.000
CPLK9440D10000	9.795	5.148	1.234	2.000
CPLK9440D10335	0.739	5.080	1.258	2.000
CPLK9440D11130	9.529	4.979	1.303	2.000
CPLK9440D11925	10.145	5,405	1.343	2.250
CPLX9440D12720	10.037	5.387	1.387	2.250
CP_K9440D13515	9,936	5.286	1,428	2.250
CP1.K9440D14310	9.840	5.190	1.467	2.250
CP1R9440D15105	9,747	5,397	1.505	2.230
CP1.K9440D15900	9.653	5.003	1.543	2,250
CPLK9440D17500	- 3,513	4,303	1.600	2.230
CPI.K9440D15000	9.430	4,780	1.834	2.250
CPLK944002.000	10,744	4,394	1.750	2,750
GPLK9440022500	10.499	5.349	1.805	2.750
CPLK9440025000	10.265	5,315	1.900	2.750

# STANDARD NEMA PAD CONFIGURATIONS

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



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



**CPLK9432** TERMINAL, 3" WIDE 4 HOLE, OFFSET



CPLK9204

2 HOLE, 45° ANGLE Identifier Numbers 00008-25000



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



**CPLK9205** TERMINAL

2 HOLE, 15º ANGLE Identifier Numbers 00006-25000



CPLK9435

TERMINAL, 3" WIDE

4 HOLE, 15° ANGLE

Identifier Numbers 00006-25000

-3.00

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 $\odot$  $^{\circ}$  CPLK9209

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



**CPLK9439** TERMINAL, 3" WIDE 4 HOLE, 90° ANGLE Identifier Numbers C0006-25000



TERMINAL

CPLK9441

TERMINAL, 4" WIDE 4 HOLE, FLAG Identifier Numbers 00006-25000



CPLK9442 TERMINAL, 4" WIDE 4 HOLE, OFFSET Identifier Numbers 00006-25000



CPLK9444 TERMINAL, 4" WIDE 4 HOLE, 45° ANGLE Identifier Numbers 00006-25000



**CPLK9445** 

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



CPLK9512 TEE, SPLIT MAIN CABLE RUN to 2" WIDE, 2 HOLE TAP Identifier Numbers 00006-25000



CPLK9449

TERMINAL, 4" WIDE

4 HOLE, 90° ANGLE

Identifier Numbers 00006-25000

CPLK9503 TEE, TWO CABLE ENDS to 3" WIDE, 4 HOLE TAP Identifier Numbers 00006-25000 \* Barrel Not Drilled Through (For split main run see CPLK9513)



\* Barrel Not Drilled Through (For split main run see CPLK9514)

CPLK9504

TEE, TWO CABLE ENDS

to 4" WIDE, 4 HOLE TAP

Identifier Numbers 00006-25000





CPLK9513

TEE, SPLIT MAIN CABLE RUN to 3" WIDE, 4 HOLE TAP Identifier Numbers 00006-25000



CPLK9514 TEE, SPLIT MAIN CABLE RUN TO 4" WIDE, 4 HOLE TAP Identifier Numbers 00006-25000



CPLK9584 TEE, SPLIT MAIN CABLE RUN to 4" WIDE, 4 HOLE TRANSVERSE TAP Identifier Numbers 00006-25000





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



**CPLK9642** 

TERMINAL, 4" WIDE

4 HOLE, 2 CABLES OFFSET Identifier Numbers 00006-25000

\* For non-standard extended spacing

add -8S or -18S for 8" or 18"

centerline spacing between cables

Example: CPLK9642D22500-18S

0 0

0 C 4.00

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CPLK9633

TERMINAL, 3" WIDE 4 HOLE, 2 CABLES 30° ANGLE

Identifier Numbers 00006-25000



### CPLK9644 TERMINAL, 4" WIDE

4 HOLE, 2 CABLES 45° ANGLE

Identifier Numbers 00006-25000 \* For non-standard extended spacing add -8S or -18S for 8" or 18" centerfine spacing between cables Example: CPLK9644D22500-18S

45



### CPLK9649

**CPLK9634** 

TERMINAL, 3" WIDE

4 HOLE, 2 CABLES

45° ANGLE

Identifier Numbers 00006-25000

45

3.00

8 8

8 8

TERMINAL, 4" WIDE 4 HOLE, 2 CABLES OFFSET, 90° ANGLE

Identifier Numbers 00006-25000 \* For non-standard extended spacing add -8S or -18S for 8" or 18" centerline spacing between cables Example: CPLK9649D22500-18S

### **CPLK9639**

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



### **CPLK9652**

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



### **CPLK9669**

TERMINAL, 6" WIDE 6 HOLE, 2 CABLES

#### OFFSET, 90° ANGLE

Identifier Numbers 00006-25000 For non-standard extended spacing add -8S or -18S for 8" or 18" centerline spacing between cables. Example: CPLK9669D22500-18S



#### **CPLK9672** TERMINAL, 6" WIDE

6 HOLE, 3 CABLES OFFSET



### CPLK9674

TERMINAL, 6" WIDE 6 HOLE, 3 CABLES

#### OFFSET, 45° ANGLE

Identifier Numbers 00006-25000 \* For non-standard extended spacing add -8S or -18S for 8" or 18" centerline spacing between cables. Example: CPLK9674D22500-18S



# SPECIAL CABLE CONNECTORS

# CL400

TERMINAL (Bus Tubing to Cable) Sizes Available: MAIN/RUN: Bus Tubing Sizes 16 - 96 TAP: Identifier Numbers 00006 - 25000 Example: CL400D64-22500S



CL404

#### TERMINAL, 45°

(Bus Tubing to Cable) Sizes Available: MAIN/RUN: Bus Tubing Sizes 16 - 96 TAP: Identifier Numbers 00006 - 25000 Example: CL404D48-11130S



### CL409

TERMINAL, 90°

(Bus Tubing with Capped End to Cable Tap) Sizes Available:

MAIN/RUN: Bus Tubing Sizes 16 - 96

TAP: Identifier Numbers 00006 - 25000 Example: CL409D56-14310S



# CL420

TERMINAL

(Bus Tubing to 2 Cable Taps)

Sizes Available:

MAIN/RUN: Bus Tubing Sizes 16 - 96 TAP: Identifier Numbers 00006 - 25000 Example: CL420D80-25000S



# CL419

TERMINAL, 90°

(Bus Tubing to 2 Transverse Cable Taps) Sizes Available: MAIN/RUN: Bus Tubing Sizes 16 - 96 TAP: Identifier Numbers 00006 - 25000 Example: CL419D64-250005





# CL429

TERMINAL, 90°

(Bus Tubing with Capped End to 2 Tandem Cable Taps)

Sizes Available: MAIN/RUN: Bus Tubing Sizes 16 - 96 TAP: Identifier Numbers 00006 - 25000 Example: CL429D48-103355



# SPECIAL CABLE CONNECTORS

### CL430

#### STRAIGHT TEE REDUCER

(Bus Tubing Main Run to Cable Tap)

Sizes Available:

MAIN/RUN: Bus Tubing Sizes 16 - 96 TAP: Identifier Numbers 00006 - 25000 Bample: 0430040-155155



# CL451

#### SPLIT CABLE SUPPORT WITH

3", 5", or 7" BOLT CIRCLE

Sizes Available: CABLE BARREL: Identifier Numbers 00006 - 25000



#### **CL714** SPLIT SPACER TAP, 2 SPLIT CABLE RUNS TO 4 HOLE,

4" PERPENDICULAR PAD Sizes Available:

CABLE BARREL: Identifier Numbers (20006 - 25000) That non-standard extended seeing add -85 or -185 for 21 or 59



# CL432

#### STRAIGHT TEE REDUCER

(Bus Tubing Main Run to 2 Cable Taps) Sizes Available: MAIN/RUN: Bus Tubing Sizes 16 - 96 TAP: Identifier Numbers 00006 - 25000 Example CL432064-22506





# CL720

SPLICE

(Cable to Cable) Sizes Available: Identifier Numbers 00006 - 25000 Example: 0.7200039755



# SPECIAL CABLE CONNECTORS

# CL731

#### STRAIGHT TEE REDUCER

(Split Cable Main Run to Cable Tap)

Sizes Available: CABLE BARREL: Identifier Numbers 00006 - 25000 Exemple: CL73ID14210-127205

# CL732 / CL702

SPACER TAP, 4 HOLE 2 SPLIT CABLE RUNS WITH 8" or 18" SPACING

Sizes Available: CABLE BARREL: Identifier Numbers 00006 - 25000 "For ron elonded extended spacing add -85 or -185 for 9" or 16" contentre spacing between cables. Example: CL702D22500 183 " To order without 4 Hole NEMA Pad, use CL702







# CABLE CONNECTOR SIZE SELECTION CHART

AAC			ACS	R		Connecto	Connector		
SIZE AWG/ kcmil	STR (Al/St)	Code Word	<b>SIZE</b> AWG/ kcmil	STR (# Wires)	Code Word	Connector Identifier Number	Swage Tool Head Assembly	O.D.	
#6	7/w	Peachbell	#6	6/1	Turkey	00006		0.500	
#4	7/w	Rose	#5	6/1	Thrush	00004	DET45CEHA00004	0.500	
#2	7/w	Iris	#4	6/1 7/1	Swan Swanate	00002			
#1	7/w	Pansey	#2	6/1 7/1	Sparrow Sparate	00001	DLT45CLHA00010	0.750	
1/0	7/w	Рорру	#1	6/1	Robin	00010			
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	DLT45CLHA02500	1.000	
250.0	7/w	Sneezewort	4/0	6/1	Penguin				
	7/w	Valerian		••••	. engenn		-		
266.8	7/w 19/w	Daisy Laurel	266.8	18/1	Waxwing	02668			
300.0	19/w	Peony		26/7	Partridge	03000			
336.4	19/w	Tulip	300.0	26/7	Ostrich	03500	DI T45CI HA03975	1 250	
350.0	19/w	Daffodil		18/1	Merlin				
			336.4	26/7	Linnet				
397.5	19/w	Canna		30/7	Oriole	03975			
			397.5	18/1	Chickadee				
450.0	19/w	Goldentuft		24/7	Brant	04500 04770			
	10/	0	397.5	26/7	IDIS				
477.0	19/W	Cosmos		30/7	Lark			1.500	
	37/W	Zinnio					DLT45CLHA05565		
500.0	37/w	Hyacinth		18/1	Pelican	05000			
	10/w	Dablia	477.0	24/7	Flicker				
556.5	37/w	Mistletoe		26/7	Hawk	05565			
	01/1	Middletoc	477.0	30/7	Hen				
600.0	37/w	Meadowsweet		18/1	Osprev	06000			
	0=/	<b>A</b> 111		24/7	Parakeet				
636.0	37/W	Orchid	556.5	26/7	Dove	06360			
	27/14	Varbana		30/7	Eagle			1 750	
700 0	377W	verbena	636.0	18/1	Kingbird	07000	DE140CERA07100	1.750	
700.0	61/w	Flag	030.0	36/1	Swift	07000			
	01/W	i iag		24/7	Peacock				
715.5	37/w 61/w	Violet Nasturtium	605.0	26/7	Squab	07155			
	37/w	Petunia	605.0	30/7 30/19	WoodDuck Teal				
750.0	61/w	Cattail		24/7	Rook	07500			
			636.0	20/7	Scoter				
	37/w	Δrbutus		30/19	Earet				
	577W	Aibulus		24/7	Flamingo				
795.0			666.6	26/7	Gannet	07950	DLT45CLHA08745	1.875	
			715.5	24/7	Stilt				
	61/w	Lilac		54/7	Crow				
				36/1	Coot				
	37/w	Anemone	795.0	45/7	Tern				
874.5	61/	Creasure	745 5	26/7	Starling	08745			
	61/w Crocus		61/w Crocus	/15.5	30/19	Redwing			

# **CABLE CONNECTOR SIZE SELECTION CHART**

AAC			ACS	R		Connector			
SIZE AWG/ kcmil	STR (Al/St)	Code Word	SIZE AWG/ kcmil	STR (# Wires)	Code Word	Conector Identifier Number	Swage Tool Head Assembly	O.D.	
	37/w	Cockscomb		24/7	Cuckoo				
900.0	61/w	Snapdragon	795.0	54/7 26/7	Condor Drake	09000			
	37/w	Magnolia		30/19	Mallard			0.000	
954.0	61/w	Goldenrod		45/7	Ruddy	09540			
	37/w	Hawkweed	900.0	54/7	Canary				
1000.0	61/14	Comollio	874.5	54/7	Crane	10000	DL145CLHATT130	2.000	
	61/W	Camellia		45/7	Rail				
4022 E	37/w	Bluebell	954.0	E 4/7	Cordinal	10335			
1033.5	61/w	Larkspur	1	54/7	Cardinal				
1112 0	61/4	Morigold	1022 5	45/7	Ortolan	11130			
1113.0	01/W	Iviangolu	1033.5	54/7	Curlew				
1192.5	61/w	Hawthorn	1113 0	45/7	Bluejay	11925			
1272 0	61/w	Narcissus	1113.0	54/19	Finch	12720			
1272.0		1192 5	45/7	Bunting	12120				
1351 5	61/w	Columbine	1102.0	54/19	Grackle	13515		2 250	
1001.0	01/10	Columbine	1272 0	45/7	Bittern				
1431 0	61/w	Carnation	12/2.0	54/19	Pheasant	14310			
140110	01/11	oundion	1351 5	45/7	Dipper				
1510 5	61/w	Gladiolus		54/19	Martin	15105	BEI 100EI # (10000	2.200	
1010.0	01/11		1431.0	45/7	Bobolink		5900		
1590.0	61/w	Coreopsis		54/19	Plover	15900			
	•		1510.5	45/7	5/7 Nuthatch				
					54/19	Parrot	17500		
1750.0	61/w	Jessamine	1590.0	45/7	Lapwing				
	0.4.4			54/19	Falcon	18000			
2000.0	91/w	Cowslip	1780.0	84/19	Chukar	20000		2.750	
2250.0	91/w	Sagebrush	2156.0	84/19	Bluebird	22500	DLT58CLHA25000*		
	0.44		2167.0	12/1	KIWI				
2500.0	91/w	Lupine	2312.0	/6/19	Ihrasher	25000			

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

# **CABLE EHV CONNECTORS**

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

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





**CEHV9442** 

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



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



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



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