



**SECTION 6**  
**CD WELD STUDS**

FOR INQUIRIES, TO PLACE ORDERS,  
SERVICE AND TECHNICAL SUPPORT CONTACT  
ANY OF THE FOLLOWING:

OFFICE: 1-800-462-9353  
713-939-8903

EMAIL: [INFO@SUNBELTSTUDWELDING.COM](mailto:INFO@SUNBELTSTUDWELDING.COM)



**website** [www.sunbeltstudwelding.com](http://www.sunbeltstudwelding.com) **email** [info@sunbeltstudwelding.com](mailto:info@sunbeltstudwelding.com)  
6381 Windfern Road, Houston, TX 77040 **telephone** 1.800.462.9353 - Houston 713.939.8903 **fax** 713.939.9013

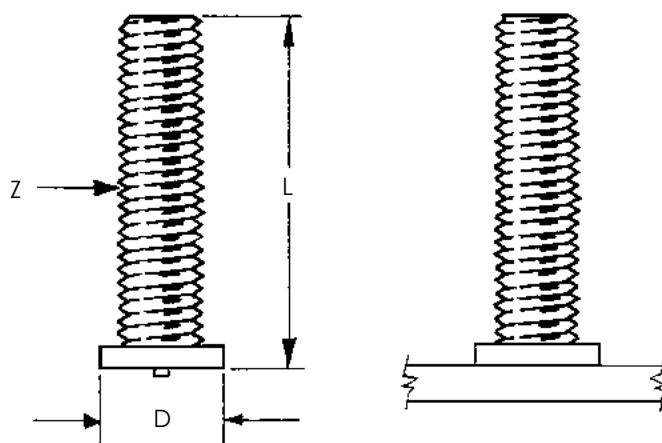
# CD Weld Studs

## CDF – CD THREADED FLANGED WELD STUDS – TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

For application, dimensional and technical assistance, please contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories				
Thread Size	Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	B Collet Short 1-3/16" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long	Collet Inserts 1-3/4" Long
C	Z	D	L	P/N *	P/N *	P/N **	P/N	P/N ***
4-40	0.112	0.187	0.250	CDB-010	CDB-010A	CDBN-010	CDBS-010	CI-010-XXX
6-32	0.138	0.218	0.250	CDB-013	CDB-013A	CDBN-013	CDBS-013	CI-013-XXX
8-32	0.164	0.250	0.250	CDB-015	CDB-015A	CDBN-015	CDBS-015	CI-015-XXX
10-24	0.190	0.250	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
10-32	0.190	0.250	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
1/4-20	0.250	0.312	0.250	CDB-025	CDB-025A	CDBN-025	CDBS-025	CI-025-XXX
5/16-18	0.312	0.375	0.500	CDB-031	CDB-031A	CDBN-031	CDBS-031	CI-031-XXX
3/8-16	0.375	0.437	0.500	CDB-037	CDB-037A	CDBN-037	CDBS-037	CI-037-XXX

\* Note, requires B Stop, see Accessories for details

\*\* Note, Requires Long Style Stops, see Accessories for details

\*\*\* Note, Collet Inserts are specific to stud length, see Accessories for details

To order or specify give: Stud Code, C x L, Material and Quantity  
 Example: CDF, 10-24 x 1.00, Aluminum, 5000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



# CD Weld Studs

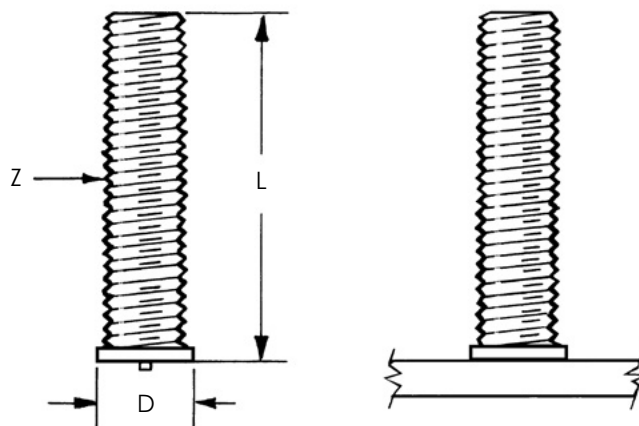
## CDS – CD THREADED SMALL FLANGED WELD STUDS – TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

The smaller flange diameter allows for smaller diameter holes in components to be mounted on welded studs.

For assistance contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories				
Thread Size	Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	B Colet Short 1-3/16" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long	Collet Inserts 1-3/4" Long
C	Z	D	L	P/N *	P/N *	P/N **	P/N	P/N ***
4-40	0.112	0.143	0.250	CDB-010	CDB-010A	CDBN-010	CDBS-010	CI-010-XXX
6-32	0.138	0.169	0.250	CDB-013	CDB-013A	CDBN-013	CDBS-013	CI-013-XXX
8-32	0.164	0.195	0.250	CDB-015	CDB-015A	CDBN-015	CDBS-015	CI-015-XXX
10-24	0.190	0.221	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
10-32	0.190	0.221	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
1/4-20	0.250	0.281	0.250	CDB-025	CDB-025A	CDBN-025	CDBS-025	CI-025-XXX
5/16-18	0.312	0.342	0.500	CDB-031	CDB-031A	CDBN-031	CDBS-031	CI-031-XXX
3/8-16	0.375	0.406	0.500	CDB-037	CDB-037A	CDBN-037	CDBS-037	CI-037-XXX

\* Note, requires B Stop, see Accessories for details

\*\* Note, Requires Long Style Stops, see Accessories for details

\*\*\* Note, Collet Inserts are specific to stud length, see Accessories for details

To order or specify give: Stud Code, C x L, Material and Quantity

Example: CDS, 1/4-20 x 0.75, Stainless Steel, 5000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



# CD Weld Studs

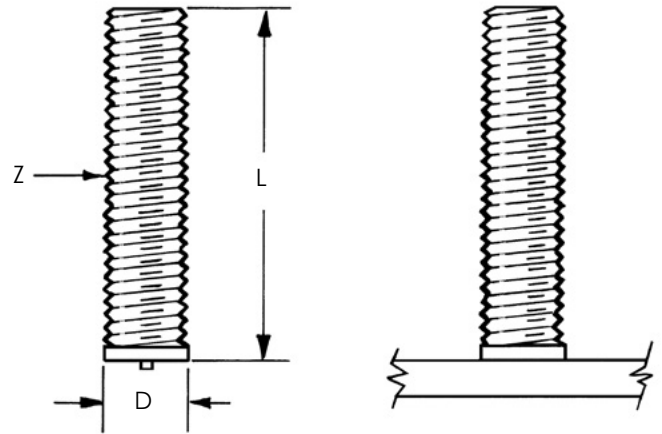
## CDN - CD THREADED NON FLANGED WELD STUDS - TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

The smaller flange diameter allows for smaller diameter holes in components to be mounted on welded studs.

For assistance contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories				
Thread Size	Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	B Collet Short 1-3/16" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long	Collet Inserts 1-3/4" Long
C	Z	D	L	P/N *	P/N *	P/N **	P/N	P/N ***
4-40	0.112	0.116	0.250	CDB-010	CDB-010A	CDBN-010	CDBS-010	CI-010-XXX
6-32	0.138	0.142	0.250	CDB-013	CDB-013A	CDBN-013	CDBS-013	CI-013-XXX
8-32	0.164	0.168	0.250	CDB-015	CDB-015A	CDBN-015	CDBS-015	CI-015-XXX
10-24	0.190	0.194	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
10-32	0.190	0.194	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
1/4-20	0.250	0.252	0.250	CDB-025	CDB-025A	CDBN-025	CDBS-025	CI-025-XXX
5/16-18	0.312	0.315	0.500	CDB-031	CDB-031A	CDBN-031	CDBS-031	CI-031-XXX
3/8-16	0.375	0.380	0.500	CDB-037	CDB-037A	CDBN-037	CDBS-037	CI-037-XXX

\* Note, requires B Stop, see Accessories for details

\*\* Note, Requires Long Style Stops, see Accessories for details

\*\*\* Note, Collet Inserts are specific to stud length, see Accessories for details

To order or specify give: Stud Code, C x L, Material and Quantity

Example: CDN, 10-24 x 0.50, Mild Steel, 2500 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



website [www.sunbeltstudwelding.com](http://www.sunbeltstudwelding.com) email [info@sunbeltstudwelding.com](mailto:info@sunbeltstudwelding.com)  
 6381 Windfern Road, Houston, TX 77040 telephone 1.800.462.9353 - Houston 713.939.8903 fax 713.939.9013

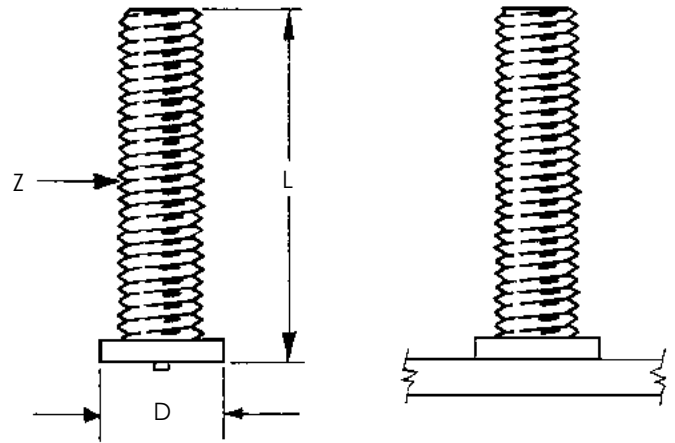
# CD Weld Studs

## CMF – CD METRIC FLANGED WELD STUDS – TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

For application, dimensional and technical assistance, please contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories		
Thread Size	Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80 Long
C	Z	D	L	P/N *	P/N **	P/N
M3 - .50	0.118	0.197	6mm	CDB-003M	CDBN-003M	CDBS-003M
M4 - .70	0.158	0.236	6mm	CDB-004M	CDBN-004M	CDBS-004M
M5 - .80	0.197	0.276	10mm	CDB-005M	CDBN-005M	CDBS-005M
M6 - 1.00	0.236	0.315	10mm	CDB-006M	CDBN-006M	CDBS-006M
M8 - 1.25	0.315	0.413	12mm	CDB-008M	CDBN-008M	CDBS-008M
M10 - 1.50	0.394	0.465	12mm	CDB-010M	CDBN-010M	CDBS-010M
* Note, requires B Stop, see Accessories for details						
** Note, Requires Long Style Stops, see Accessories for details						

To order or specify give: Stud Code, C x L, Material and Quantity  
**Example: CMF, M8-1.25 X 20mm, Stainless Steel, 5000 pcs.**

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque valves, weight charts and standard stock sizes.



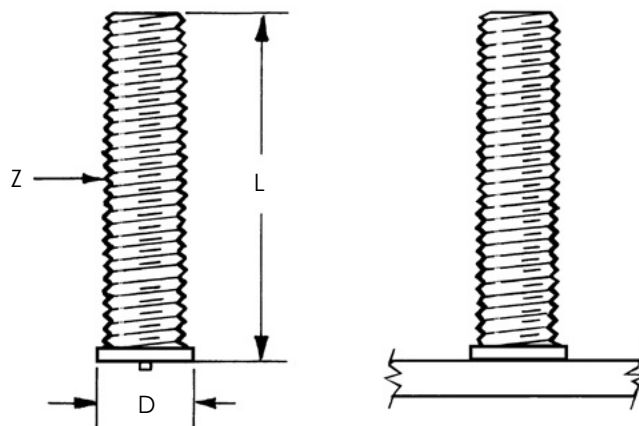
# CD Weld Studs

## CMS – CD METRIC SMALL FLANGED WELD STUDS – TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

The smaller flange diameter allows for smaller diameter holes in components to be mounted on welded studs.



Stud Specifications				Standard Accessories		
Thread Size	Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80 Long
C	Z	D	L	P/N *	P/N **	P/N
M3 - .50	0.118	0.148	6mm	CDB-003M	CDBN-003M	CDBS-003M
M4 - .70	0.158	0.187	6mm	CDB-004M	CDBN-004M	CDBS-004M
M5 - .80	0.197	0.226	10mm	CDB-005M	CDBN-005M	CDBS-005M
M6 - 1.00	0.236	0.266	10mm	CDB-006M	CDBN-006M	CDBS-006M
M8 - 1.25	0.315	0.344	12mm	CDB-008M	CDBN-008M	CDBS-008M
M10 - 1.50	0.394	0.427	12mm	CDB-010M	CDBN-010M	CDBS-010M
* Note, requires B Stop, see Accessories for details						
** Note, Requires Long Style Stops, see Accessories for details						

To order or specify give: Stud Code, C x L, Material and Quantity

Example: CMS, M5-.80 x 25mm, Mild Steel, 3000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



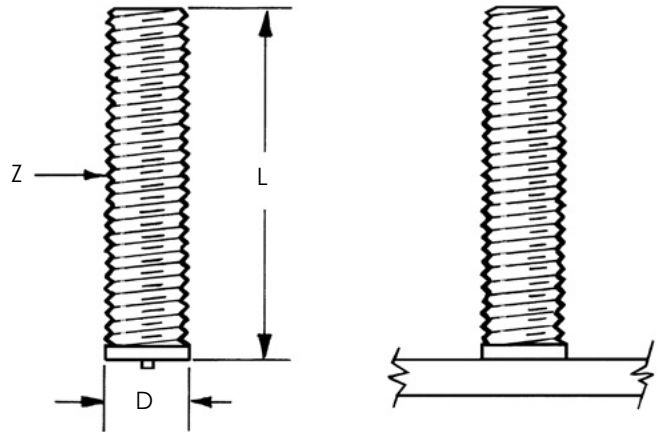
# CD Weld Studs

## CMN - CD METRIC NON FLANGED WELD STUDS - TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

The smaller flange diameter allows for smaller diameter holes in components to be mounted on welded studs.



Stud Specifications				Standard Accessories		
Thread Size	Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	Long Collet 2 -3/8" Long	Euro Collet 1.80" Long
C	Z	D	L	P/N *	P/N **	P/N
M3 - .50	0.118	0.120	6mm	CDB-003M	CDBN-003M	CDBS-003M
M4 - .70	0.158	0.160	6mm	CDB-004M	CDBN-004M	CDBS-004M
M5 - .80	0.197	0.199	10mm	CDB-005M	CDBN-005M	CDBS-005M
M6 - 1.00	0.236	0.238	10mm	CDB-006M	CDBN-006M	CDBS-006M
M8 - 1.25	0.315	0.316	12mm	CDB-008M	CDBN-008M	CDBS-008M
M10 - 1.50	0.394	0.395	12mm	CDB-010M	CDBN-010M	CDBS-010M
* Note, requires B Stop, see Accessories for details						
** Note, Requires Long Style Stops, see Accessories for details						

To order or specify give: Stud Code, C x L, Material and Quantity

Example: CMN, M6 - 1.00 x 12mm, Stainless Steel, 3000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.





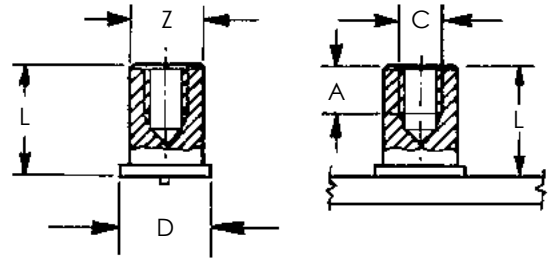
# CD Weld Studs

## CIT - CD INTERNALLY THREADED, FLANGED (TAPPED PADS) - TECHNICAL DETAILS

CIT flanged weld studs provide greater strength over non flanged studs when welded to thinner sheet.

For application, dimensional and technical assistance, contact Sunbelt Stud Welding.

For CIT Flanged studs with imperial taps, contact Sunbelt Stud Welding.



Stud Specifications					Standard Accessories		
Tap Size	Tap Depth	Flange Diameter	Stud Diameter	Length Range	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long
C	A	D	Z	L	P/N *	P/N **	P/N
M3 - .50	0.197	0.256	0.197	6 - 30mm	CDB-005M	CDBN-005M	CDBS-005M
M3 - .50	0.236	0.295	0.236	8 - 30mm	CDB-006M	CDBN-006M	CDBS-006M
M4 - .70	0.236	0.295	0.236	8 - 30mm	CDB-006M	CDBN-006M	CDBS-006M
M5 - .80	0.295	0.354	0.280	10 - 30mm	CA	CA	CDBS-007M
* Note, requires B Stop, see Accessories for details							
** Note, Requires Long Style Stops, see Accessories for details							
CA - Check Availability, not standard stock items							

To order or specify give: Stud Code, Z x L, C, Material and Quantity

Example: CIT, .236 x 12mm, M4, Stainless Steel, 6000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



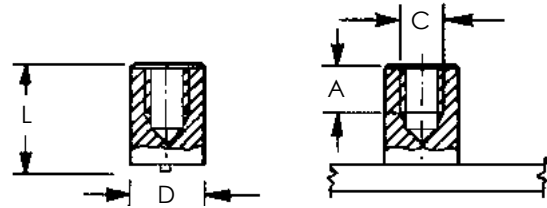


# CD Weld Studs

## CIN - CD INTERNALLY THREADED, NON FLANGED (TAPPED PADS) - TECHNICAL DETAILS

CIN non flanged weld studs are available in mild steel, stainless steel and aluminum materials. As CIN weld studs are typically made to order, metric taps and other dimensions should be specified.

For application, dimensional and technical assistance, contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories		
Tap Size	Minimum Tap Depth	Min. Stud Diameter	Min. Length	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long
C	A	D	L	P/N *	P/N **	P/N
6-32	0.197	0.190	0.315	CDB-018	CDBN-018	CDBS-018
8-32	0.236	0.250	0.315	CDB-025	CDBN-025	CDBS-025
10-24	0.295	0.250	0.394	CDB-025	CDBN-025	CDBS-025
10-32	0.295	0.250	0.394	CDB-025	CDBN-025	CDBS-025
1/4-20	0.375	0.312	0.437	CDB-031	CDBN-031	CDBS-031
5/16-18	0.437	0.375	0.500	CDB-037	CDBN-037	CDBS-037
* Note, requires B Stop, see Accessories for details						
** Note, Requires Long Style Stops, see Accessories for details						
Note, Collets listed above based on Min. Stud Diameter shown above						

To order or specify give: Stud Code, C x L, D x A, Material and Quantity

Example: CIN, .250 x 1, 10-32 x .375, Stainless Steel, 1200 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



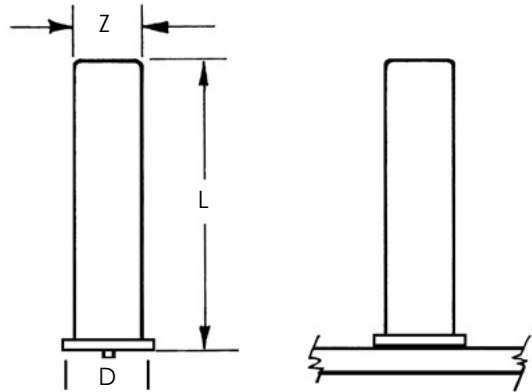
# CD Weld Studs

## CNF – CD NO THREAD FLANGED WELD STUDS – TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

For assistance contact Sunbelt Stud Welding.



Stud Specifications			Standard Accessories				
Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	B Collet Short 1-3/16" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long	Collet Inserts 1-3/4" Long
Z	D	L	P/N *	P/N *	P/N **	P/N	P/N ***
0.094	0.174	0.250	CA	CA	CA	CA	CA
0.112	0.187	0.250	CDB-010	CDB-010A	CDBN-010	CDBS-010	CI-010-XXX
0.125	0.187	0.250	CDB-012	CDB-012A	CDBN-012	CDBS-012	CS
0.138	0.218	0.250	CDB-013	CDB-013A	CDBN-013	CDBS-013	CI-013-XXX
0.156	0.250	0.250	CDB-004M	CDB-004AM	CDBN-004M	CDBS-004M	CA
0.164	0.250	0.250	CDB-015	CDB-015A	CDBN-015	CDBS-015	CI-015-XXX
0.188	0.250	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
0.215	0.312	0.250	CA	CA	CA	CA	CA
0.250	0.312	0.250	CDB-025	CDB-025A	CDBN-025	CDBS-025	CI-025-XXX
0.273	0.375	0.375	CA	CA	CA	CA	CA
0.312	0.375	0.500	CDB-031	CDB-031A	CDBN-031	CDBS-031	CI-031-XXX
0.375	0.437	0.500	CDB-037	CDB-037A	CDBN-037	CDBS-037	CI-037-XXX

\* Note, requires B Stop, see Accessories for details      \*\* Note, Requires Long Style Stops, see Accessories for details

\*\*\* Note, Collet Inserts are specific to stud length, see Accessories for details

CA - Check Availability, not standard stock items

To order or specify give: Stud Code, Z x L, Material and Quantity  
 Example: CNF, 0.312 x 0.75, Stainless Steel, 5000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



website [www.sunbeltstudwelding.com](http://www.sunbeltstudwelding.com) email [info@sunbeltstudwelding.com](mailto:info@sunbeltstudwelding.com)  
 6381 Windfern Road, Houston, TX 77040 telephone 1.800.462.9353 - Houston 713.939.8903 fax 713.939.9013

# CD Weld Studs

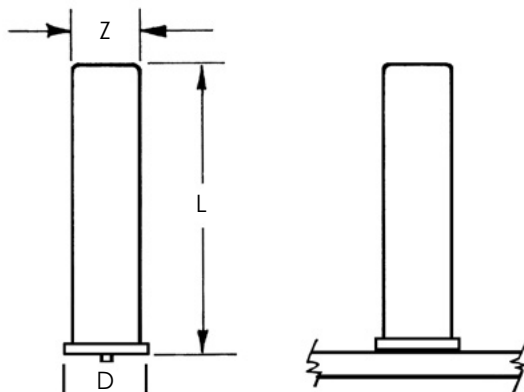
## CNS - CD NO THREAD SMALL FLANGED WELD STUDS - TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

The smaller flange diameter allows for smaller diameter holes in components to be mounted on welded studs.

For assistance contact Sunbelt Stud Welding.



Stud Specifications			Standard Accessories				
Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	B Collet Short 1-3/16" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long	Collet Inserts 1-3/4" Long
Z	D	L	P/N *	P/N *	P/N **	P/N	P/N ***
0.094	0.143	0.250	CA	CA	CA	CA	CA
0.112	0.156	0.250	CDB-010	CDB-010A	CDBN-010	CDBS-010	CI-010-XXX
0.125	0.156	0.250	CDB-012	CDB-012A	CDBN-012	CDBS-012	CS
0.138	0.195	0.250	CDB-013	CDB-013A	CDBN-013	CDBS-013	CI-013-XXX
0.156	0.221	0.250	CDB-004M	CDB-004AM	CDBN-004M	CDBS-004M	CA
0.164	0.221	0.250	CDB-015	CDB-015A	CDBN-015	CDBS-015	CI-015-XXX
0.188	0.221	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
0.215	0.281	0.250	CA	CA	CA	CA	CA
0.250	0.281	0.250	CDB-025	CDB-025A	CDBN-025	CDBS-025	CI-025-XXX
0.273	0.343	0.375	CA	CA	CA	CA	CA
0.312	0.343	0.500	CDB-031	CDB-031A	CDBN-031	CDBS-031	CI-031-XXX
0.375	0.406	0.500	CDB-037	CDB-037A	CDBN-037	CDBS-037	CI-037-XXX

\* Note, requires B Stop, see Accessories for details    \*\* Note, Requires Long Style Stops, see Accessories for details  
 \*\*\* Note, Collet Inserts are specific to stud length, see Accessories for details    CA - Check Availability, not standard stock items

To order or specify give: Stud Code, Z x L, Material and Quantity  
 Example: CNS, 0.25 x 0.50, Mild Steel, 5000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



# CD Weld Studs

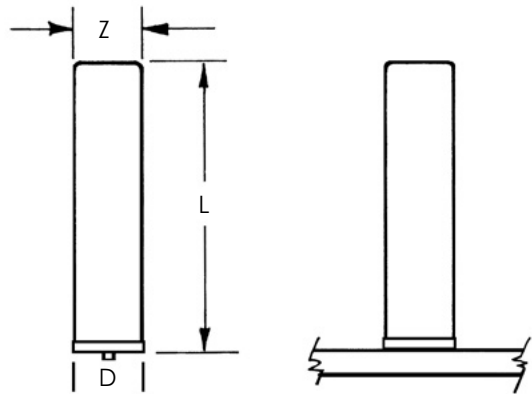
## CNN - CD NO THREAD NON FLANGED WELD STUDS - TECHNICAL DETAILS

The Capacitor Discharge (CD) Stud Welding process is designed for welding CD type studs to sheet metal with little to no reverse side marking.

The Arc - Short Cycle process is also used to weld CD type studs to sheet metal and plate.

The smaller flange diameter allows for smaller diameter holes in components to be mounted on welded studs.

For assistance contact Sunbelt Stud Welding.



Stud Specifications			Standard Accessories				
Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	B Collet Short 1-3/16" Long	Long Collet 2-3/8" Long	Euro Collet 1.80 Long	Collet Inserts 1-3/4" Long
Z	D	L	P/N *	P/N *	P/N **	P/N	P/N ***
0.094	0.094	0.250	CA	CA	CA	CA	CA
0.112	0.112	0.250	CDB-010	CDB-010A	CDBN-010	CDBS-010	CI-010-XXX
0.125	0.125	0.250	CDB-012	CDB-012A	CDBN-012	CDBS-012	CS
0.138	0.138	0.250	CDB-013	CDB-013A	CDBN-013	CDBS-013	CI-013-XXX
0.156	0.156	0.250	CDB-004M	CDB-004AM	CDBN-004M	CDBS-004M	CA
0.164	0.164	0.250	CDB-015	CDB-015A	CDBN-015	CDBS-015	CI-015-XXX
0.188	0.188	0.250	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-018-XXX
0.215	0.215	0.250	CA	CA	CA	CA	CA
0.250	0.250	0.250	CDB-025	CDB-025A	CDBN-025	CDBS-025	CI-025-XXX
0.273	0.273	0.375	CA	CA	CA	CA	CA
0.312	0.312	0.500	CDB-031	CDB-031A	CDBN-031	CDBS-031	CI-031-XXX
0.375	0.375	0.500	CDB-037	CDB-037A	CDBN-037	CDBS-037	CI-037-XXX

\* Note, requires B Stop, see Accessories for details

\*\* Note, Requires Long Style Stops, see Accessories for details

\*\*\* Note, Collet Inserts are specific to stud length, see Accessories for details

CA - Check Availability, not standard stock items

To order or specify give: Stud Code, Z x L, Material and Quantity

Example: CNN, 0.156 x 0.625, Mild Steel, 5000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



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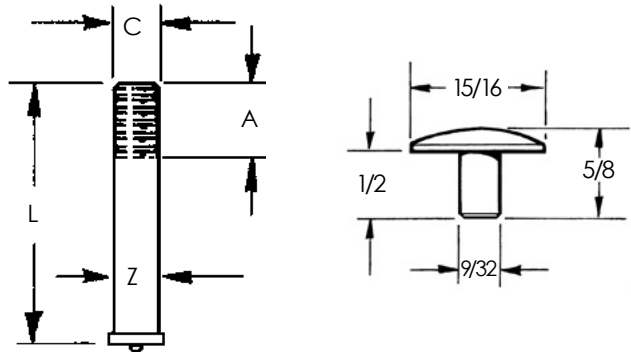
# CD Weld Studs

## CAR – CD ANNULAR RING (NAVY) STUDS –TECHNICAL DETAILS

CAR weld studs are available in mild steel and stainless steel materials.

CAR weld studs are used to install insulation materials. After the stud is welded in place, the insulation is impaled over the stud and then a Mushroom Navy Cap is installed onto the stud with a hammer. The cap is now locked onto the stud.

For application, dimensional and in stock assistance contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories				
Nominal Diameter	Groove Diameter	Groove Length	Min. Length	B Collet Standard 1-3/8" Long	B Collet Short 1-3/16" Long	Long Collet 2-3/8" Long	Euro Collet 1.80 Long	Collet Inserts 1-3/4" Long
Z	C	A	L	P/N *	P/N *	P/N **	P/N	P/N ***
0.188	0.175	0.312	0.750	CDB-018	CDB-018A	CDBN-018	CDBS-018	CI-010-XXX
* Note, requires B Stop, see Accessories for details								
** Note, Requires Long Style Stops, see Accessories for details								
*** Note, Collet Inserts are specific to stud length, see accessories for details.								

To order or specify give: Stud Code, Z x L, Material and Quantity  
 Example: CAR, .188 x .75, Mild Steel, 2000 pcs.

### Materials

Low Carbon Steel - conforms to MIL-S-24149 (Tensile 60,000 PSI min. and yield 50,000 PSI min.)

Copper Plating is standard

Stainless Steel - conforms to MIL-S-24149 (Tensile 85,000 PSI min. and yield 40,000 PSI min.)

Recommended Hardware:	Part Number
Mushroom Navy Cap - Aluminum	AR-001
To order indicate P/N and Quantity - item sold separately	

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque valves, weight charts and standard stock sizes.

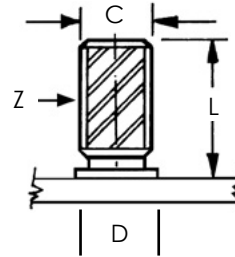


# CD Weld Studs

## CMP – CD METRIC PAINT CLEARING WELD STUDS – TECHNICAL DETAILS

Paint Clearing (CMP) weld studs are designed to be welded in place, processed through powder coat and then accept a nut. This eliminates the need to cap studs prior to powder coat. Available in mild steel material.

For application, dimensional and technical assistance contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories		
Thread Size	Stud Diameter	Flange Diameter	Min. Length	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long
C	Z	D	L	P/N *	P/N **	P/N
M4 - .70	0.158	0.236	6mm	CDB-004M	CDBN-004M	CDBS-004M
M5 - .80	0.197	0.276	10mm	CDB-005M	CDBN-005M	CDBS-005M
M6 - 1.00	0.236	0.315	10mm	CDB-006M	CDBN-006M	CDBS-006M
M8 - 1.25	0.315	0.413	12mm	CDB-008M	CDBN-008M	CDBS-008M
* Note, requires B Stop, see Accessories for details						
** Note, Requires Long Style Stops, see Accessories for details						

To order or specify give: Stud Code, C x L, Material and Quantity

Example: CMP, M6-1.00 X 15mm, Mild Steel, 4500 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque valves, weight charts and standard stock sizes.



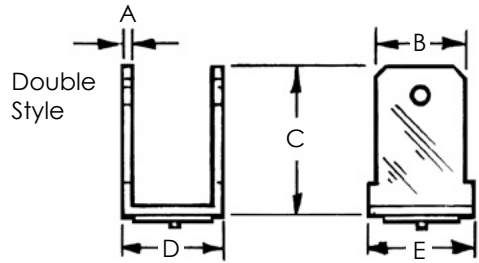
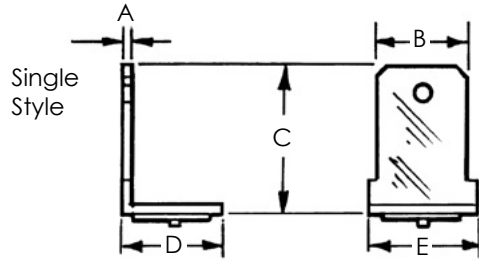
# CD Weld Studs

## CGS & CGD – CD GROUND STUDS – SINGLE & DOUBLE – TECHNICAL DETAILS

The CGS & CGD weld studs are stud welded in place using the CD Process. After welding in place the "Push On" style electrical terminal connectors are installed on either of these studs.

For application, dimensional and technical assistance contact Sunbelt Stud Welding.

For additional weld studs used as grounding studs see CDF, CMF, CGT and SCM stud codes.



Stud Specifications							Std. Acc.
Stud Code	Material	Thickness A	Width B	Height C	Base Width D	Base Length E	Euro Collet P/N
CGS Single	Mild Steel	0.032	0.250	0.460	0.375	0.320	82-50-050
	Stainless						
	Brass						
CGD Double	Mild Steel	0.032	0.250	0.460	0.438	0.320	82-50-050
	Stainless						
	Brass						

To order or specify give: Stud Code, Material and Quantity

Example: CGS or CGD, Stainless Steel, 3000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.





# CD Weld Studs

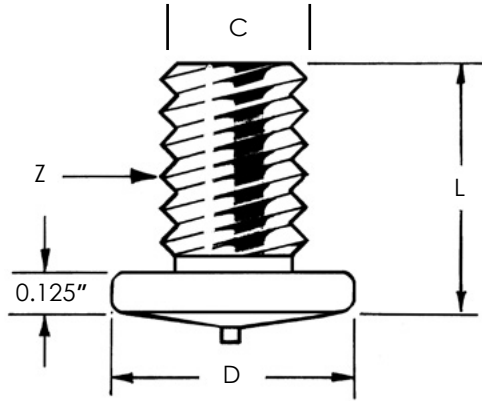
## CGT - CD GROUND WELD STUDS - TECHNICAL DETAILS

The (CGT) CD Ground Weld Studs provide a larger than normal flange diameter to assist in obtaining a better ground connection than standard flanged CD studs.

CGT studs are welded in place using CD type equipment and Arc - short cycle type equipment.

CGT weld studs are available in mild and stainless steel materials.

For application, dimensional and technical assistance contact Sunbelt Stud Welding.



Stud Specifications				Standard Accessories		
Thread Size	Stud Diameter	Flange Diameter	Length	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long
C	Z	D	L ***	P/N *	P/N **	P/N
1/4-20	0.250	0.500	0.590	CDB-025	CDBN-025	CDBS-025
M6 - 1.00	0.236	0.500	0.630	CDB-006M	CDBN-006M	CDBS-006M
M8 - 1.25	0.315	0.500	0.630	CDB-008M	CDBN-008M	CDBS-008M
* Note, requires B Stop, see Accessories for details						
** Note, Requires Long Style Stops, see Accessories for details						
*** Note, these are considered standard lengths, other lengths are special order						

To order or specify give: Stud Code, C, Material and Quantity  
 Example: CGT, 1/4-20, Mild Steel, 1,000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



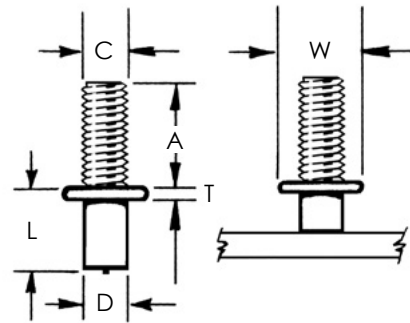
# CD Weld Studs

## CDC – CD THREADED COLLAR WELD STUDS – TECHNICAL DETAILS

CDC weld studs are available in mild steel and stainless steel.

CDC weld studs are used to provide a spacer between the base metal and the attached part.

For application, dimensional, in stock and welding assistance contact Sunbelt Stud Welding.



Stud Specifications						Standard Accessories		
Base Diameter	Min. Length	Max. Thread Diameter	Std. Thread Length	Collar Diameter	Collar Thickness	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long
D	L	C	A	W	T	P/N *	P/N **	P/N
0.160	0.375	10-24	0.500	0.436	0.062	CDB-018	CDBN-018	CDBS-018
0.160	0.375	10-32	0.500	0.436	0.062	CDB-018	CDBN-018	CDBS-018
0.215	0.375	1/4 - 20	0.500	0.500	0.093	CDB-025	CDBN-025	CDBS-025
0.275	0.375	5/16 - 18	0.625	0.562	0.093	CDB-031	CDBN-031	CDBS-031
0.330	0.375	3/8 - 16	0.625	0.625	0.093	CDB-037	CDBN-037	CDBS-037
* Note, may require B Stop, see Accessories for details								
** Note, may require Long Style Stops, see Accessories for details								
Note, limited stock on CDC studs with metric threads								

To order or specify give: Stud Code, C x L, D x A, Material and Quantity

Example: CDC, .330 x 1 w/ 3/8-16 x 5/8, Mild Steel, 2800 pcs.

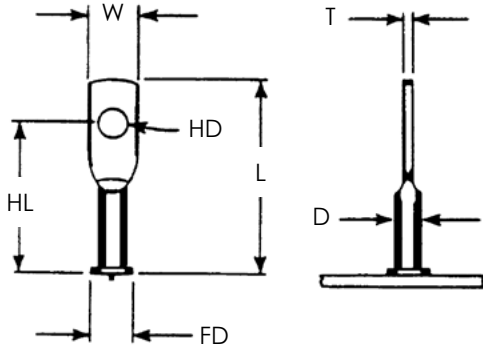
See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



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# CD Studs - Flanged Acoustical Hanger

## CD STUDS: FLANGED ACOUSTICAL HANGER



STUD						
D	L	FD	HD	HL	W	T
.168	1-1/8	.250	.187	7/8	5/16	1/16
.214	1-1/8	.312	.187	7/8	3/8	5/64

	MILD STEEL	STAINLESS STEEL
MATERIAL	C - 0.23% max. P - 0.04% max. Mn - 0.90% max. S - 0.05% max.	AISI grade - 304/305 std. Other grades available upon request.
MECHANICAL PROPERTIES	Tensile - 60,000 psi (min.) Yield - 50,000 psi (min.)	Tensile - 85,000 psi (min.) Yield - 40,000 psi (min.)
PLATING	Copper plating is standard	Does not apply to Stainless

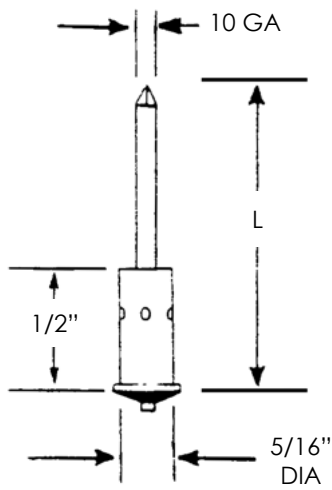
To order or specify give: Stud Code, Diameter, Material and Quantity  
 Example: CD F-AH, .168, Mild Steel, 2800 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



# CD Studs - Pin Bi-Metallic

## CD STUDS: PIN BI-METALLIC



<b>MATERIAL</b>	PIN Stainless Steel	BASE Aluminum - (5000 Series)
<b>WASHER</b>	Self-Locking washers are available in a variety of sizes, shapes and materials.	

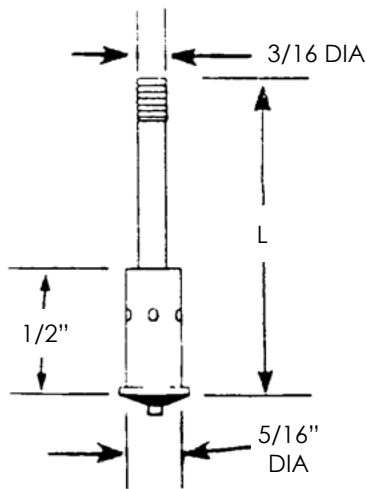
To order or specify give: Product Code, Material and Quantity  
 Example: CB BM-P, Stainless Steel, 1000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



# CD Studs - Annular Ring Bi-Metallic

## CD STUDS: ANNULAR RING BI-METALLIC



<b>MATERIAL</b>	PIN Stainless Steel	BASE Aluminum - (5000 Series)
<b>CAP</b>	The cap for use with this stud is the WCNAR CAP, annular ring cap.	

To order or specify give: Product Code, Material and Quantity  
Example: CD BM-AR, Stainless Steel, 1000 pcs.

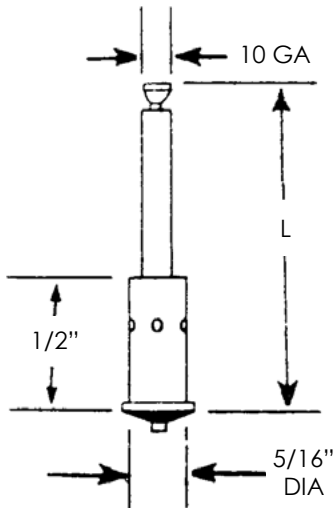
See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



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# CD Studs - Notched End Bi-Metallic

## CD STUDS: NOTCHED END BI-METALLIC



<b>MATERIAL</b>	PIN Stainless Steel	BASE Aluminum - (5000 Series)
<b>WASHER</b>	The washer for use with this stud is the WCN NE KHS, notched and keyhole slotted washer.	

To order or specify give: Product Code, Material and Quantity

Example: CD BM-NE, Stainless Steel, 1000 pcs.

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque values, weight charts and standard stock sizes.



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# CD Weld Studs

## CTB – CD CABLE TIE BASE WELD STUDS – TECHNICAL DETAILS

CTB weld studs are a superior option to securing cable tie bases compared to adhesives or screws.

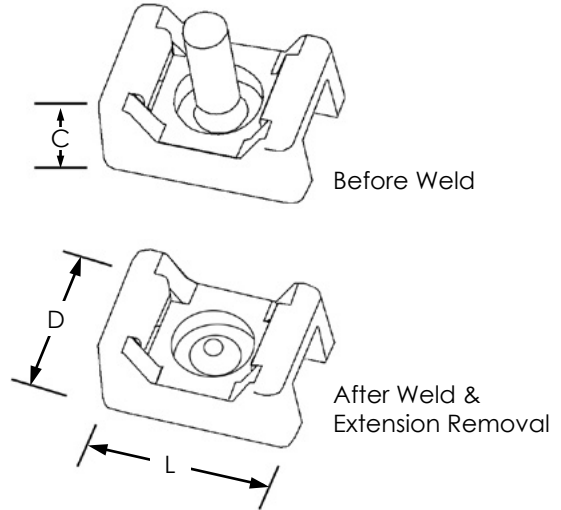
To install, first weld the wire tie base in place, then break off the top portion of stud and insert cable tie. Holds wire bundle up to 1 in diameter.

The retaining stud is a .188 diameter stainless steel or aluminum knock-off style CD stud.

The pull off strength of the cable tie base exceeds that of a typical 3/16 nylon wire tie.

For application, dimensional, in stock, technical details and welding assistance contact Sunbelt Stud Welding.

(See the next page for CD Cable Tie Base Weld Studs - Technical Data Sheet.)



Cable Tie Base Specifications					Standard Accessories		
Height	Length	Width	Slot Height	Slot Width	B Collet Standard 1-3/8" Long	Long Collet 2-3/8" Long	Euro Collet 1.80" Long
C	L	D	A	W	P/N *	P/N **	P/N
0.390	0.875	0.625	0.090	0.325	CDB-018	CDBN-018	CDBS-018
* Note, requires B Stop, see Accessories for details							
** Note, requires Long Style Stops, see Accessories for details							

**To order or specify give: Stud Code, Material and Quantity**

**Example: CTB, Stainless Steel, 1000 pcs.**

See **Accessories** for accessory details. See **CD Stud Welding General Information** and **Technical Details** for process description, material combinations, reverse-side marking, locating options, technical details, guidelines, torque valves, weight charts and standard stock sizes.





# CD Weld Studs

## CTB – CD CABLE TIE BASE WELD STUDS – TECHNICAL DATA SHEET

Nylon 6/6 Properties				
Property	ASTM Method	Test Condition	Units	Nylon 6/6
Tensile Strength	D368	+73 Degrees F, 50% RH	kpsi	11.2
Elongation at break	D368	+73 Degrees F, 50% RH	%	> 299
Yield Strength	D368	+73 Degrees F, 50% RH	kpsi	8.5
Shear Strength	D732	Dry as Molded	kpsi	9.6
Deformation Under Load	D621	2,000 psi; +122 F, DAM	%	1.4
IZOD Impact	D256	+73 Degrees F, 50% RH	ft lb/in	2.1
Tensile Impact Strength	D1822	+73 Degrees F, Long Specimen; DAM	ft lb/in	240
Melting Point	D789	Fisher-Johns	Degrees F	491
Thermal Conductivity	—	DAM Conche-Fitch	BTU-in/h*F	1.7
Brittleness Temperature	D746	50% RH	Degrees F	-85
Oxygen Index	D2683	DAM	%O	28
Oxygen Index	D2683	50% RH	%O	31
UL Flammability	UL 94	DAM	—	V-2
UL Flammability	UL 95	50% RH	—	V-2

Nylon 6/6 NBS Smoke Generation				
Test Parameters			Specific Optical Density	
Sample Thickness	UL Flammability	Energy Source	at Maximum Smoke Accumulation	At 2 Minutes
1/16	94 V-2	Radiant (2.5 watts/sp cm)	13	0
1/8	94 V-2	Radiant (2.5 watts/sp cm)	26	1

Nylon 6/6 Temperature Index			
Temperature Index			
Minimum Thickness	Electrical Degrees C	Mechanical w/o Impact Degrees C	Hot Wire Ignition (sec)
0.028	125	65	11.8
0.058	125	85	15.0

Weld Stud Dimensions and Properties					
Stud Diameter	Flange Diameter	Length	Length after knock-off *	Material Type **	Ultimate Tensile
0.190	0.265	0.780	0.180	302 SS	85 KPSI
* Excludes flange thickness					
** Along with 304 SS, meets requirements of 18-8 Stainless Steel					



# CD Weld Studs

## OTHER CAPACITOR DISCHARGE “CD” WELD STUDS



Oval Head Pin



Round Head Pin



Pierced Pin



Retaining Pin



Pointed Retaining Pin



Notched Insulation Pin



Cone Head Pin



NT Shoulder Pin



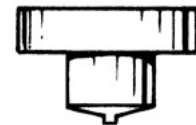
Threaded  
Shoulder Pin



Tapped Pad  
Reduced Base



Knock-off Pin



Keyhole Stud