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.

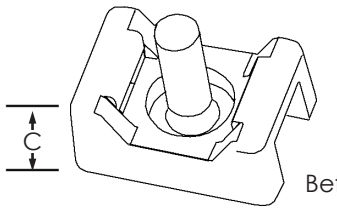
To install, first weld the wire tie base in place, then break off the top portion of stud and insert cable tie. Holds wire bundle up to 1 in diameter.

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

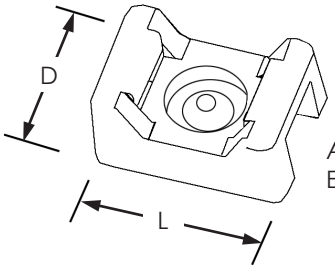
The pull off strength of the cable tie base exceeds that of a typical 3/16 nylon wire tie.

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.)



Before Weld



After Weld & Extension Removal

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, revere-side marking, locating options, technical details, guidelines, torque valves, weight charts and standard stock sizes.

SUNBELT STUDWELDING INC.
website www.sunbeltstudwelding.com **email** info@sunbeltstudwelding.com
6381 Windfern Road, Houston, TX 77040 **telephone** 1.800.462.9353 - Houston 713.939.8903 **fax** 713.939.9013

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*ft*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					

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