



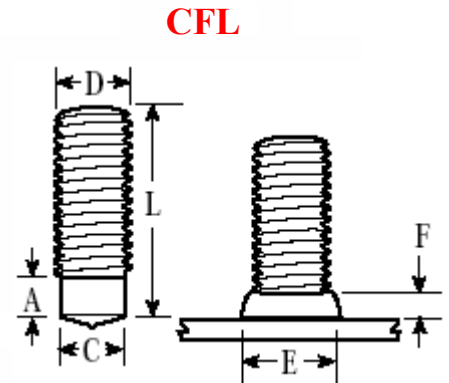
# NELSON STUD WELDING

## SPECIFICATION: CFL Fully Threaded Studs

Nelson CFL studs are recommended for fastening applications where threads are needed for the full fastener length. CFL studs are available in thread diameters of 1/4"-20 through 1"-8.

Nelson fully threaded studs have a short length of pitch diameter weld base. Most of this length is melted off during the stud welding process so that usable thread extends down to the top of the weld flash on installed studs.

For similar function studs, see CFP Small Diameter Threaded studs, CJL Reduced Base studs, CPL Partially Threaded studs, HBA Aluminum Full Base Diameter Threaded studs, HBL Full Base Diameter Threaded studs, Banding Cable Hangers, CrimpLok™ Cable Hangers, and Watertight nuts.



When ordering, specify **Type, Diameter, Before Weld Length, Material, Quantity, and Part Number**

*Example: CFL 3/8-16 x 2-1/4"; Mild Steel; 10,000 pieces; #101017193*

Thread Size	Minimum Stud Length	Burn Off	Weld Base Diameter C	Weld Base Length A	Weld Flash Size		Flash Clearance	Required Standard Accessories			
					Diameter E	Height F		Ferrule	Grip	Chuck	Foot
1/4-20	0.780	0.125	0.215	0.142	0.359	0.109	0.437	100101067	501001007	500001007	502001137
5/16-18	0.780	0.125	0.275	0.142	0.437	0.109	0.500	100101024	501001006	500001009	502001137
3/8-16	0.812	0.125	0.330	0.190	0.500	0.125	0.562	100101025	501001007	500001011	502001137
7/16-14	0.812	0.125	0.389	0.205	0.562	0.125	0.625	100101026	501001008	500001012	502001137
1/2-13	0.875	0.125	0.448	0.221	0.625	0.156	0.680	100101027	501001009	500001014	502001137
9/16-12	1.062	0.187	0.503	0.221	0.750	0.156	0.813	100101011	501001011	500001015	502001138
5/8-11	1.000	0.187	0.562	0.284	0.781	0.187	0.843	100101028	501001011	500001016	502001138
3/4-10	1.250	0.187	0.680	0.346	0.937	0.250	1.031	100101029	501001014	500001018	502001002
7/8-9	1.500	0.187	0.798	0.377	1.125	0.312	1.250	100101140	501001015	500001019	502001003
1-8	1.500	0.250	0.913	0.500	1.375	0.375	1.437	100101045	501001016	500001085	502001003

Stud lengths shorter than those shown above can be supplied in sizes 1/4"-20 through 1/2"-13 by using special low profile ceramic ferrules. All low profile ferrules, except the 1/4"-20 ferrule, were designed for use with full diameter weld base studs. For this reason, the weld flash size and flash clearance are increased. The minimum length, weld flash clearance, recommended deviance, ferrules, and ferrule grip numbers are shown below.

Thread Size	Minimum Stud Length	Weld Flash Size		Flash Clearance	Required Standard Accessories For Short Studs			
		E	F		Ferrule	Grip	Chuck	Foot
1/4-20	0.640	0.359	0.109	0.437	100101077	501001005	500001007	502001137
5/16-18	0.640	0.437	0.109	0.500	100101030	501001007	500001009	502001137
3/8-16	0.687	0.500	0.125	0.593	100101031	501001008	500001011	502001137
7/16-14	0.687	0.593	0.140	0.656	100101032	501001009	500001012	502001137
1/2-13	0.750	0.687	0.156	0.750	100101033	501001001	500001014	502001138

**MATERIALS:** Studs are available in Low Carbon Mild Steel and Stainless Steel. For specific grade information, physical and chemical properties, conforming standards, and information on stud plating and heat treating, please see [General Material Specifications](#).

**THREADS:** Standard CFL studs are available with up to 3" of thread length in UNC-2A coarse thread. Other thread pitch series, and thread lengths greater than 3" are available as special order.

**FLUX:** All Nelson partially threaded CFL studs have a solid flux load.

Visit our website [www.NelsonStudWelding.com](http://www.NelsonStudWelding.com) for a list of our standard stock products.