

## NELSON STUD WELDING

### SPECIFICATION: **CPL** Partially Threaded Studs

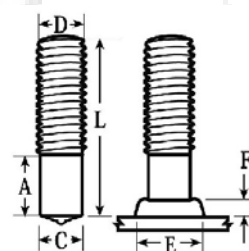
Nelson CPL studs are recommended for fastening applications to heavy gauge base materials where development of the full fastener strength is needed. The unthreaded section minimizes the weld flash diameter and height. It also reduces the possibility of stud hang up in the ferrule cavity if gun parts are slightly misaligned.

Nelson partially threaded studs have a pitch diameter weld base and are available in thread diameters of 1/4"-20 through 1"-8 with unlimited length.

For similar function studs, see Nelson **CFL Full Threaded studs**, **CFP Small Diameter Threaded studs**, **CJL Reduced Base studs**, **HBL Full Base Diameter Threaded studs**, **B5L 90° Bent Collar studs**, **Banding Cable Hangers**, **CrimpLok™ Cable Hangers**, and **Watertight nuts**.



**CPL**



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

*Example:* CPL 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			
					E	F		Ferrule	Grip	Chuck	Foot
1/4-20	0.562	0.125	0.215	0.375	0.312	0.093	0.375	100101034	501001005	500001007	502001137
5/16-18	0.593	0.125	0.275	0.375	0.406	0.109	0.469	100101035	501001006	500001009	502001137
3/8-16	0.625	0.125	0.330	0.385	0.468	0.109	0.531	100101036	501001007	500001011	502001137
7/16-14	0.718	0.125	0.389	0.438	0.531	0.125	0.594	100101037	501001008	500001012	502001137
1/2-13	0.843	0.125	0.448	0.500	0.593	0.156	0.656	100101038	501001009	500001014	502001137
9/16-12	0.875	0.187	0.503	0.531	0.671	0.171	0.734	100101117	501001010	500001015	502001138
5/8-11	1.000	0.187	0.562	0.625	0.750	0.187	0.812	100101039	501001011	500001016	502001138
3/4-10	1.250	0.187	0.680	0.791	0.921	0.250	0.984	100101040	501001014	500001018	502001002
7/8-9	1.375	0.187	0.798	0.858	1.046	0.312	1.125	100101041	501001015	500001019	502001003
1-8	1.500	0.250	0.913	0.926	1.187	0.375	1.250	100101042	501001016	500001085	502001003

**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 CPL 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 CPL studs have a solid flux load.

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