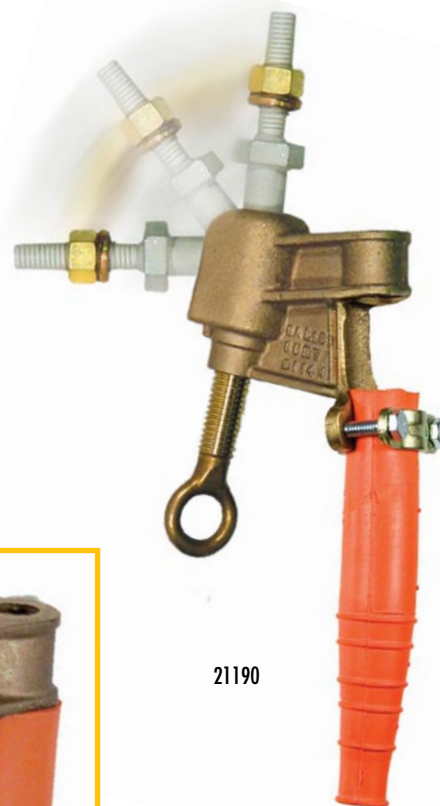


## BALL & SOCKET SYSTEM

### SOCKET CLAMP

The **Ball and Socket Grounding System** allows for variable angle accessibility. This system is compact and lightweight. There are fixed grounding points on the socket clamp. The 21190 Socket Clamp, made from bronze alloy, has a socket size of 1" (25.4mm) and a threaded bore boss of 5/8"-11 UNC. The socket clamp has an integral cable support with strain relief sleeve.



Cat. No. & Description	ASTM Grade	Continuous Current Rating	Weight ea. lbs. ( kgs)
21190 w/ Strain Relief Sleeve	5	400	1.2 ( .54 )
21277 w/o Strain Relief Sleeve	5	400	1.1 ( .5 )

# BALL & SOCKET SYSTEM

## BALL STUDS

The **Ball Stud**, long and short, the **Offset Nema Pad Ball Stud**, and the **21846 90° Offset Nema Pad** are made from a copper alloy, tin-plated. They each have a 1" (25.4mm) diameter ball. The long and short Ball Stud have a 1/2"-13 UNC x 2" thread and a recommended installation torque of 300 in. lbs. The short stud is used conventionally. The long stud can also be used as the grounding point for "C" or Duckbill clamps that have a jaw width of 2.75" or less. The Offset Nema Pad Ball Stud has the standard Nema bolt hole spacing and also comes in both long and short lengths. The **Internal Thread Ball Stud** is tapped for a 1/2-13 UNC bolt having a length of at least 1".

The **Ball Stud Cover**, made from orange SALCOR®, allows for multiple angle application when installed using a clampstick.



Cat. No.	Description	Dimensions in. ( mm )	ASTM Grade	Weight ea. lbs. ( kgs )
21191	Ball Stud Short	4.38 ( 111 )	5	.53 ( .23 )
21192	Ball Stud Long	6.13 ( 156 )	5	.81 ( .37 )
21846	90° Offset Nema Pad	3.25 ( 83 ) x 5.75 ( 147 )	5	1 ( .45 )
24082	Internal Thread Ball Stud	4 ( 102 )	5	.54 ( .25 )
21228	Offset NEMA Pad Short	5.13 x 1.5 ( 130 x 38 )	5	.84 ( .38 )
24087	Offset NEMA Pad Long	7 x 1.5 ( 178 x 38 )	5	1 ( .45 )
21236	Cover for Ball Stud	-	n / a	.09 ( .04 )