



### Coupler Nuts

Coupler nuts connect rods to rods and to anchor bolts to form a continuous rod system.

**Straight couplers** have the same diameter thread on each end.

**Reducing couplers** have different diameter threads on each end.

Thread pitch is Unified National Coarse (NC or UNC).

Coupler nuts are available to fit rod from 1/2"-13 through 1-1/4-5 NC.

#### Identification:

**Straight Coupler:** Example CN-9  
 CN = Coupler Nut,  
 9 = rod Size in  $\frac{9}{8}$  inch = 1- $\frac{1}{8}$ " dia.

**Grade:** Standard Coupler Nuts are ASTM A563 Grade A  
 High Strength Couplers are ASTM A563 Grade C

Sighted couplers have one or more holes drilled to aid installation and inspection.

Sight holes are standard.

#### Installation:

Thread coupler onto rod until the rod can be seen in the sight hole.  
 Thread the next rod until it can also be seen through the sight hole. A nail inserted into the sight hold can be used for a temporary stop.

Note: Full strength is achieved with thread engagement equal to a standard nut, or one-third engagement of the coupler.

#### Options:

Oversize threads in coupler nuts for use with galvanized rod are available. To specify add a suffix after the product. Example CN-6 FHDG. This provides an oversize end to fit HDG rod. Contact factory for details.

#### Code Acceptance:

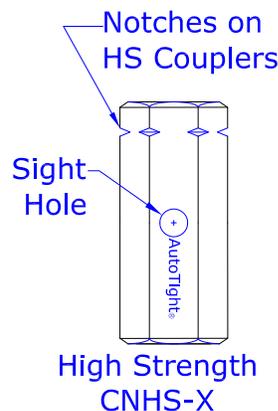
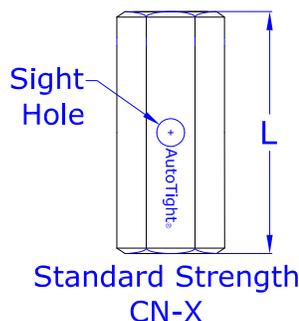
Nuts and coupler nuts shall be grade compatible and conform to ASTM A563 and IFI-128. One or two sight holes are provided to assist proper installation. Standard strength couplers shall be used with ASTM A307 and equivalent rod; High strength couplers shall be used with ASTM C1045, ASTM A193-B7 and other high strength rod. High strength couplers may be used with standard strength rod. See AC 391 section 1.4.5 for additional information.

Coupler Elongation is not considered in system calculations.

Standard Couplers		
Model Number	Rod Diameter	Length
	Both Ends	
CN-4	1/2"	1-1/2"
CN-5	5/8"	1-7/8"
CN-6	3/4"	2-1/8"
CN-7	7/8"	2-5/8"
CN-8	1"	3"
CN-9	1-1/8"	3-3/8"
CN-10	1-1/4"	3-3/4"

High Strength Couplers		
Model Number	Rod Diameter	Length
	Both Ends	
CNHS-5	5/8"	1-7/8"
CNHS-6	3/4"	2-1/8"
CNHS-7	7/8"	2-5/8"
CNHS-8	1"	3"
CNHS-9	1-1/8"	3-3/8"
CNHS-10	1-1/4"	3-3/4"

### Straight Couplers





### Reducer Couplers

Reducer Couplers are used when one size rod is attached to a different size. Normally a reduction is from a larger to a smaller diameter rod. For example, changing from a 1" rod to a 7/8" rod. Reducers are sometimes used to increase a rod diameter, for example an embedment may use a high strength rod then change to a larger diameter standard strength rod. This is commonly seen when larger rod is used for stretch control, or a high strength embedment is used.

#### Identification:

#### Reducer Coupler

Example: CNR610

CN = Coupling Nut Reducer,

610 = 3/4" - 10 NC to 1-1/4" - 7 NC Thread.

#### Grade:

Standard Coupler Nuts are ASTM A563 Grade A.

High strength Couplers are ASTM A563 Grade C.

(Grade 8 or 2H may also be supplied)

Sight holes are standard.

#### Installation

Thread coupler onto larger rod, bottom. Thread smaller rod into coupler and bottom on the larger thread. The thread bottoming in the coupler will indicate full engagement, a sight hole is not necessary.

Reducing Couplers Std Strength			
Model Number	Rod Diameter		Coupler Length
	Small	Large	
CNR-45	1/2"	3/4"	1-1/4"
CNR-46		3/4"	1-1/2"
CNR-47		7/8"	1-3/4"
CNR-56	5/8"	3/4"	1-3/4"
CNR-57		7/8"	1-3/4"
CNR-58		1"	2"
CNR-59		1-1/8"	3"
CNR-67	3/4"	7/8"	2"
CNR-68		1"	2-1/8"
CNR-69		1-1/8"	3"
CNR-610		1-1/4"	3"
CNR-78	7/8"	1"	2-1/8"
CNR-79		1-1/8"	3"
CNR-710		1-1/4"	3"
CNR-89	1"	1-1/8"	3"
CNR-810		1-1/4"	3"
CNR-910	1-1/8"	1-1/4"	3"

Reducer Coupler - High Strength			
Model Number	Rod Diameter		Length
	Small	Large	
CNRHS-56	5/8"	3/4"	1-3/4"
CNRHS-57		7/8"	1-3/4"
CNRHS-58		1"	2"
CNRHS-59		1-1/8"	3"
CNRHS-67	3/4"	7/8"	2"
CNRHS-68		1"	2-1/8"
CNRHS-69		1-1/8"	3"
CNRHS-610		1-1/4"	3"
CNRHS-78	7/8"	1"	2-1/8"
CNRHS-79		1-1/8"	3"
CNRHS-710		1-1/4"	3"
CNRHS-89	1"	1-1/8"	3"
CNRHS-810		1-1/4"	3"
CNRHS-910	1-1/8"	1-1/4"	3"
CNRHS-914		1-3/4"	4"
CNRHS-1014	1-1/4"	1-3/4"	4"

### Reducer Couplers

