

F43 Plain Ferrule

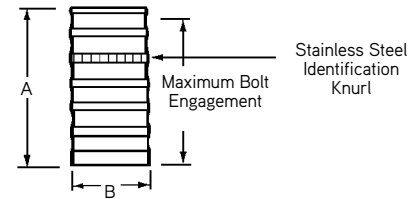
The Dayton Superior F43 Plain Ferrule (without loops) can be furnished for fabricating special inserts at the job site. Ferrules are manufactured from either 12L15 cold drawn carbon steel or Type 304 Stainless Steel. Contact your local welding service for proper welding techniques and instructions on welding either of these materials.

When ferrules are produced from Type 304 stainless steel, they will have a knurled rib, as shown. Ferrules that do not have any knurling are produced from C1215 steel.

Minimum bolt engagement for ferrule inserts shall be equal to the nominal bolt diameter plus 1/8". The use of shorter bolt engagements will result in a lower than expected load carrying capacity.

All of the ferrules and ferrule inserts listed in this handbook are tapped with National Course (NC) threads. Dayton Superior can furnish, on special order, ferrules that are tapped with metric threads.

Note: All ferrules are made with a knock-out area in the closed bottom. When knocked out, the hole will accept a #8-32 self tapping screw that is used to attach ferrule inserts to the form face.



F43 Plain Ferrule

To Order:

Specify: (1) quantity, (2) name, (3) bolt diameter, (4) finish.

Example:

2000 pcs., F43 Plain Ferrules, 3/8" bolt diameter, type 304 SS.

F43 Plain Ferrule Selection Table

Bolt Diameter and Threads per Inch	Bolt Engagement	A	B
1/4" – 20 NC	3/4"	1-1/4"	9/16"
3/8" – 16 NC	3/4"	1-1/4"	9/16"
1/2" – 13 NC	1"	1-3/8"	11/16"
5/8" – 11 NC	1-1/8"	1-5/8"	7/8"
3/4" – 10 NC	1-1/8"	1-5/8"	1"
7/8" – 9 NC	1-1/8"	1-5/8"	1-1/4"
1" – 8 NC	1-1/8"	1-5/8"	1-3/8"
1-1/4" – 7 NC	1-3/4"	2-1/2"	1-5/8"
1-1/2" – 6 NC	2-1/4"	3"	1-7/8"

Structural Connectors

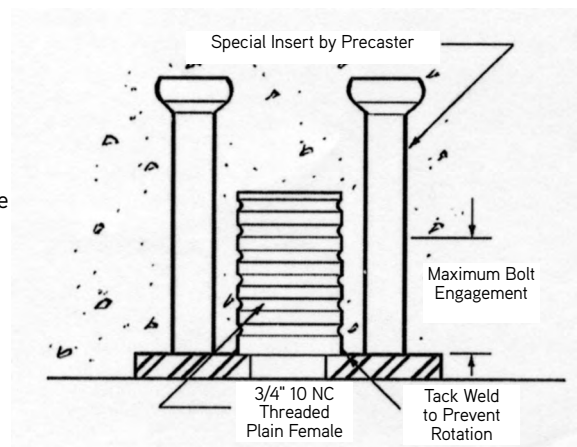
Special Ferrule Application

Many precasters have found that a 3/4"-10 NC threaded ferrule, when used as a nut in a special shop built insert, will solve many of their connection problems. The safe working loads of the ferrule (nut) when it is subjected to various bolt engagements are listed for your use.

Note: As the Ferrule SWL's listed are based on compression loading conditions, do not attempt to use these safe working loads with regular ferrule inserts.

Nominal Bolt Diameter and Threads per Inch	Minimum Bolt Engagement	Maximum Safe Working Load
3/4" - 10	1/4" 7 mm	5,500lbs. 24.4 kN
3/4" - 10	3/8" 10 mm	7,200lbs. 32.0 kN
3/4" - 10	1/2" 13 mm	8,700lbs. 38.6 kN
3/4" - 10	3/4" 19 mm	10,300lbs. 45.8 kN

The SWL's provide approximately a 3 to 1 factor of safety against thread stripping.



The SWL's listed in the table assume that the special precaster built insert has the capacity to safely support at least 3 times the ferrules safe working load.