

# 7F

# Couplings

**1/2"–2" Brass Construction**  
**All Stainless Steel with suffix – S516**  
**2 1/2"–4" Stainless Steel construction only**

Cl. I†, Div. 1 & 2, Groups A,B,C,D  
 Cl. II, Div. 1, Groups E,F,G  
 Cl. II, Div. 2, Groups F,G  
 Cl. III

Explosionproof  
 Dust-Ignitionproof  
 Wet Locations

Elbows, Couplings, Fitting Devices, Plugs, Etc.  
**7F**

## Application:

EC couplings are used:  
 • in hazardous areas where a flexible member is required in a conduit system to accomplish difficult bends, or to allow for movement or vibration of connected equipment or units

## Features:

- Rugged design to withstand explosive pressure (Class I)
- Mechanical abuse
- Liquid-tight for wet locations
- For use where lack of space makes use of rigid conduit difficult
- Wire duct liner in sizes 1/2" to 2" insulates against grounds and burn-through from short circuit
- No bonding jumpers required, metallic braid provides continuous electrical path
- ECGJH combination has two threaded male end fittings
- ECLK combination has one female union and one male threaded end fitting

## Standard Materials:

- End fittings:  
 1/2" to 2" – forged brass  
 2 1/2" to 4" – stainless steel
- Female unions:  
 1/2" to 1" – steel  
 1 1/4" to 4" – *Feraloy*® iron alloy
- 1/2" to 2" have bronze braid covering and flexible brass inner core; packing is woven cotton braid impregnated with asphalt.
- 2 1/2" to 4" have a Type 304 stainless steel braid.

## Standard Finishes:

- Brass and bronze – natural
- Steel – electrogalvanized with chromate treatment
- *Feraloy* iron alloy – electrogalvanized with aluminum acrylic paint
- Stainless steel – natural

## Options:

<b>Description</b>	<b>Suffix to be Added to Cat. #</b>
All stainless steel . . . . .	S516
For severely corrosive locations, a flexible PVC protective coating will be supplied. . . . .	S758
Special coupling lengths available up to 144 inches. To order, change last two digits in any standard catalog number to the two or three digit length desired in whole inches i.e. To order a 3/4" trade size 110 inches long, use catalog number ECGJH2110	

## Certifications and Compliances:

- NEC:  
 1/2" and 3/4" (Brass and S516) – Class I, Division 1 & 2, Groups A,B,C,D

1" to 2" (Brass and S516) – Class I, Division 1 & 2, Groups C,D  
 2 1/2" to 4" (Stainless Steel) – Class I, Division 1 & 2, Groups C,D

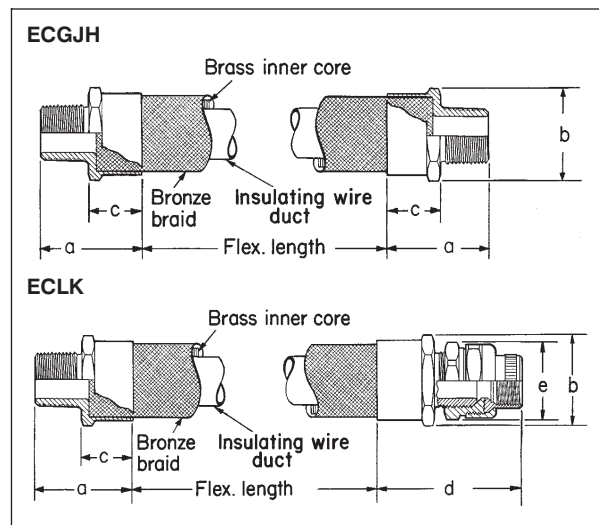
All sizes also for use in Class II, Division 1, Groups E,F,G, Division 2, Groups F,G and Class III  
 • UL Standard: 886



## ECGJH (Male connections both ends)

Flexible Length	Size	Cat. #	Flexible Length	Size	Cat. #	Flexible Length	Size	Cat. #
4	1/2	ECGJH14	18	1	ECGJH318	27	2 1/2	ECGJH727
4	3/4	ECGJH24	18	1 1/4	ECGJH418	27	3	ECGJH827
6	1/2	ECGJH16	18	1 1/2	ECGJH518	27	4	ECGJH1027
6	3/4	ECGJH26	18	2	ECGJH618	30	1/2	ECGJH130
6	1	ECGJH36	18	2 1/2	ECGJH718	30	3/4	ECGJH230
8	1/2	ECGJH18	18	3	ECGJH818	30	1	ECGJH330
8	3/4	ECGJH28	18	4	ECGJH1018	30	1 1/4	ECGJH430
8	1	ECGJH38	21	1/2	ECGJH121	30	1 1/2	ECGJH530
10	1/2	ECGJH110	21	3/4	ECGJH221	30	2	ECGJH630
10	3/4	ECGJH210	21	1	ECGJH321	30	2 1/2	ECGJH730
10	1	ECGJH310	21	1 1/4	ECGJH421	30	3	ECGJH830
12	1/2	ECGJH112	21	1 1/2	ECGJH521	30	4	ECGJH1030
12	3/4	ECGJH212	21	2	ECGJH621	33	1/2	ECGJH133
12	1	ECGJH312	21	2 1/2	ECGJH721	33	3/4	ECGJH233
12	1 1/4	ECGJH412	21	3	ECGJH821	33	1	ECGJH333
12	1 1/2	ECGJH512	21	4	ECGJH1021	33	1 1/4	ECGJH433
12	2	ECGJH612	24	1/2	ECGJH124	33	1 1/2	ECGJH533
12	2 1/2	ECGJH712	24	3/4	ECGJH224	33	2	ECGJH633
12	3	ECGJH812	24	1	ECGJH324	33	2 1/2	ECGJH733
12	4	ECGJH1012	24	1 1/4	ECGJH424	33	3	ECGJH833
15	1/2	ECGJH115	24	1 1/2	ECGJH524	33	4	ECGJH1033
15	3/4	ECGJH215	24	2	ECGJH624	36	1/2	ECGJH136
15	1	ECGJH315	24	2 1/2	ECGJH724	36	3/4	ECGJH236
15	1 1/4	ECGJH415	24	3	ECGJH824	36	1	ECGJH336
15	1 1/2	ECGJH515	24	4	ECGJH1024	36	1 1/4	ECGJH436
15	2	ECGJH615	27	1/2	ECGJH127	36	1 1/2	ECGJH536
15	2 1/2	ECGJH715	27	3/4	ECGJH227	36	2	ECGJH636
15	3	ECGJH815	27	1	ECGJH327	36	2 1/2	ECGJH736
15	4	ECGJH1015	27	1 1/4	ECGJH427	36	3	ECGJH836
18	1/2	ECGJH118	27	1 1/2	ECGJH527	36	4	ECGJH1036
18	3/4	ECGJH218	27	2	ECGJH627			

## Dimensions



†See certifications and compliances.

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 Cl. II, Div. 2, Groups F,G Ignitionproof  
 Cl. III Wet Locations

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 Flows, Couplings,  
 Girth Devices,  
 Plugs, Etc.

**ECLK (ECGJH provide with UNF Female union – male connection 1 end, female connection 1 end)**

Flexible Length	Size	Cat. #	Flexible Length	Size	Cat. #	Flexible Length	Size	Cat. #
4"	1/2	ECLK14	18"	1	ECLK318	27"	2 1/2	ECLK727
4"	3/4	ECLK24	18"	1 1/4	ECLK418	27"	3	ECLK827
6"	1/2	ECLK16	18"	1 1/2	ECLK518	27"	4	ECLK1027
6"	3/4	ECLK26	18"	2	ECLK618	30"	1/2	ECLK130
6"	1	ECLK36	18"	2 1/2	ECLK718	30"	3/4	ECLK230
8"	1/2	ECLK18	18"	3	ECLK818	30"	1	ECLK330
8"	3/4	ECLK28	18"	4	ECLK1018	30"	1 1/4	ECLK430
8"	1	ECLK38	21"	1/2	ECLK121	30"	1 1/2	ECLK530
10"	1/2	ECLK110	21"	3/4	ECLK221	30"	2	ECLK630
10"	3/4	ECLK210	21"	1	ECLK321	30"	2 1/2	ECLK730
10"	1	ECLK310	21"	1 1/4	ECLK421	30"	3	ECLK830
12"	1/2	ECLK112	21"	1 1/2	ECLK521	30"	4	ECLK1030
12"	3/4	ECLK212	21"	2	ECLK621	33"	1/2	ECLK133
12"	1	ECLK312	21"	2 1/2	ECLK721	33"	3/4	ECLK233
12"	1 1/4	ECLK412	21"	3	ECLK821	33"	1	ECLK333
12"	1 1/2	ECLK512	21"	4	ECLK1021	33"	1 1/4	ECLK433
12"	2	ECLK612	24"	1/2	ECLK124	33"	1 1/2	ECLK533
12"	2 1/2	ECLK712	24"	3/4	ECLK224	33"	2	ECLK633
12"	3	ECLK812	24"	1	ECLK324	33"	2 1/2	ECLK733
12"	4	ECLK1012	24"	1 1/4	ECLK424	33"	3	ECLK833
15"	1/2	ECLK115	24"	1 1/2	ECLK524	33"	4	ECLK1033
15"	3/4	ECLK215	24"	2	ECLK624	36"	1/2	ECLK136
15"	1	ECLK315	24"	2 1/2	ECLK724	36"	3/4	ECLK236
15"	1 1/4	ECLK415	24"	3	ECLK824	36"	1	ECLK336
15"	1 1/2	ECLK515	24"	4	ECLK1024	36"	1 1/4	ECLK436
15"	2	ECLK615	27"	1/2	ECLK127	36"	1 1/2	ECLK536
15"	2 1/2	ECLK715	27"	3/4	ECLK227	36"	2	ECLK636
15"	3	ECLK815	27"	1	ECLK327	36"	2 1/2	ECLK736
15"	4	ECLK1015	27"	1 1/4	ECLK427	36"	3	ECLK836
18"	1/2	ECLK118	27"	1 1/2	ECLK527	36"	4	ECLK1036
18"	3/4	ECLK218	27"	2	ECLK627			

## Dimensions

### ECGJH and ECLK

Size	a	b	c	d	e
1/2	17/8	1 1/2	1 1/8	3	1 9/16
3/4	2 1/16	1 7/8	1 3/8	3 1/4	1 13/16
1	2 1/2	2 1/8	1 1/2	3 5/8	1 7/8
1 1/4	2 7/8	2 15/16	1 7/8	4 3/16	2 3/4
1 1/2	3 5/16	3 1/2	1 7/8	5 3/16	3 1/16
2	3 3/4	4 1/4	2	5 1/16	3 13/16
2 1/2	3	4 7/16	1 5/8	5 1/16	4 5/16
3	3 1/8	4 9/16	1 3/4	5 5/8	5 1/16
4	4 5/8	4 15/16	3 1/4	7 1/2	6 3/16

### Minimum Recommended Radius of Bend

Size	Radius	Size	Radius
1/2	10	2	16
3/4	12	2 1/2	16
1	14	3	18
1 1/4	14	4	30
1 1/2	16		

†See certifications and compliances.