

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, Grid 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:

| | |
|---|-------------------------------------|
| Description | Suffix to be Added to Cat. # |
| 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

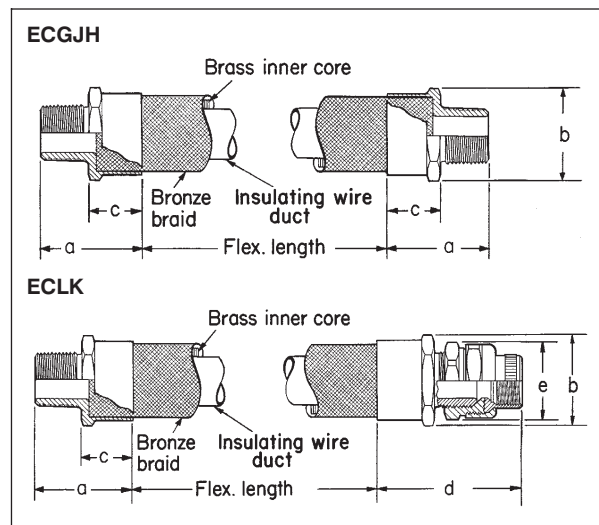
All sizes also for use in Class II, Division 1, Groups E,F,G, Division 2, Groups F,G and Class III
 • UL Standard: 886



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.

Couplings

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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.