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# **Couplings**

# 1/2 "-2" Brass Construction 2-1/2-4" Stainless Steel construction only

Cl. I, Groups A, B, C, D Explosionproof Cl. II, Groups E, F, G **Dust-Ignitionproof** CI. III Wet Locations

## **Applications:**

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 burnthrough 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

## **Certifications and Compliances:**

• NEC:

 $\frac{1}{2}$ " and  $\frac{3}{4}$ " (Brass and S516) – Class I, Division 1, Groups A, B, C, D 1" to 2" (Brass and S516) - Class I, Division 1, Groups C, D

All sizes also for use in Class II, Division 1, Groups E, F, G and Class III

- UL Standard: 1203
- ATEX and IECEx ECGJH S516 Only:  $\frac{1}{2}$ " and  $\frac{3}{4}$ " (4" to 36" flexible length only) - Ex d IIC, IP66 1", 11/4", 11/2", 2" (4" to 36" flexible length only) - Ex d IIB, IP66

#### **Standard Materials and Finishes:**

• End fittings:

 $^{1}\!/_{\!2}"$  to 2" – forged brass; natural 21/2" to 4" - stainless steel; natural

· Female unions:

1/2" to 1" - steel; electrogalvanized with chromate treatment 11/4" to 4" - Feraloy® iron alloy; electrogalvanized with aluminum acrylic paint

- 1/2" to 2" have bronze braid covering and flexible brass inner core; packing is woven cotton braid impregnated with asphalt
- 21/2" to 4" have a Type 304 stainless steel braid

#### **Options:**

Description	Suffix
All stainless steel (available for ECGJH only)	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.



## **ECGJH** (Male connections both ends)

4         ¾         ECGJH24         18         1¼         ECGJH418         27         3         ECGJH82           6         ½         ECGJH16         18         1½         ECGJH518         27         4         ECGJH10           6         ¾         ECGJH26         18         2         ECGJH618         30         ½         ECGJH13           6         1         ECGJH36         18         2½         ECGJH718         30         ¾         ECGJH23           8         ½         ECGJH18         18         3         ECGJH818         30         1         ECGJH33           8         ¾         ECGJH28         18         4         ECGJH818         30         1½         ECGJH43           8         1         ECGJH38         21         ½         ECGJH211         30         1½         ECGJH63           10         ½         ECGJH38         21         ½         ECGJH211         30         1½         ECGJH63           10         ¾         ECGJH310         21         1½         ECGJH221         30         2         ECGJH63           12         ½         ECGJH310         21         1½         ECGJH3141	Flexible			Flexible			Flexible		
4		C:	0-4 #		C:	0-4 #		C:	0-1 #
4	(In.)	Size	Cat. #	` '		Cat. #	` ,	Size	Cat. #
Columbia		, -							ECGJH727
6			ECGJH24						ECGJH827
6         1         ECGJH36         18         2½         ECGJH718         30         ¾         ECGJH23           8         ½         ECGJH18         18         3         ECGJH818         30         1         ECGJH33           8         ¾         ECGJH28         18         4         ECGJH1018         30         1¼         ECGJH53           8         1         ECGJH38         21         ½         ECGJH21         30         1½         ECGJH53           10         ½         ECGJH110         21         ¾         ECGJH221         30         2         ECGJH63           10         ¾         ECGJH310         21         1½         ECGJH221         30         3         ECGJH83           12         ½         ECGJH310         21         1½         ECGJH421         30         3         ECGJH83           12         ½         ECGJH310         21         1½         ECGJH421         30         3         ECGJH83           12         ½         ECGJH612         33         ½         ECGJH33         ½         ECGJH33           12         1½         ECGJH312         21         2½         ECGJH621         <									ECGJH1027
8									ECGJH130
8         ½         ECGJH28         18         4         ECGJH1018         30         1½         ECGJH43           8         1         ECGJH38         21         ½         ECGJH121         30         1½         ECGJH53           10         ½         ECGJH110         21         ¾         ECGJH221         30         2         ECGJH63           10         ¾         ECGJH210         21         1½         ECGJH221         30         2½         ECGJH73           10         1         ECGJH310         21         1¼         ECGJH421         30         3         ECGJH83           12         ½         ECGJH121         21         1½         ECGJH521         30         4         ECGJH83           12         ½         ECGJH312         21         2½         ECGJH621         33         ½         ECGJH33           12         1½         ECGJH312         21         2½         ECGJH621         33         ¾         ECGJH33           12         1½         ECGJH312         21         4         ECGJH831         3         1½         ECGJH33           12         1½         ECGJH612         24         ½		-							ECGJH230
8         1         ECGJH38         21         ½         ECGJH121         30         1½         ECGJH53           10         ½         ECGJH110         21         ¾         ECGJH221         30         2         ECGJH63           10         ¾         ECGJH210         21         1         ECGJH321         30         2½         ECGJH63           10         1         ECGJH310         21         1½         ECGJH421         30         3         ECGJH83           12         ½         ECGJH112         21         1½         ECGJH521         30         4         ECGJH10           12         ¾         ECGJH212         21         2         ECGJH621         33         ½         ECGJH13           12         1½         ECGJH312         21         2½         ECGJH721         33         ¾         ECGJH23           12         1½         ECGJH312         21         3         ECGJH831         3         1½         ECGJH33           12         1½         ECGJH612         24         ½         ECGJH102         3         1½         ECGJH33         1½         ECGJH33           12         2½         ECGJH612			ECGJH18			ECGJH818	30		ECGJH330
10									ECGJH430
10	8								ECGJH530
10	10	1/2	ECGJH110	21	3/4	ECGJH221	30		ECGJH630
12         1/2         ECGJH112         21         11/2         ECGJH521         30         4         ECGJH10           12         3/4         ECGJH212         21         2         ECGJH621         33         1/2         ECGJH13           12         1         ECGJH312         21         2 1/2         ECGJH721         33         3/4         ECGJH23           12         11/4         ECGJH412         21         3         ECGJH821         33         1 1/4         ECGJH33           12         11/2         ECGJH612         24         1/2         ECGJH1021         33         1 1/4         ECGJH43           12         2 2         ECGJH612         24         1/2         ECGJH124         33         1 1/2         ECGJH43           12         2 1/2         ECGJH612         24         1/2         ECGJH24         33         2 1/2         ECGJH43           12         2 1/2         ECGJH612         24         1/2         ECGJH24         33         2 1/2         ECGJH63           12         2 1/2         ECGJH8124         33         2 1/2         ECGJH63         2         ECGJH63           15         1/2         ECGJH15	10	3/4	ECGJH210			ECGJH321			ECGJH730
12         ¾         ECGJH212         21         2         ECGJH621         33         ½         ECGJH13           12         1         ECGJH312         21         2½         ECGJH721         33         ¾         ECGJH23           12         1¼         ECGJH412         21         3         ECGJH821         33         1½         ECGJH33           12         1½         ECGJH512         21         4         ECGJH1021         33         1½         ECGJH33           12         2½         ECGJH612         24         ½         ECGJH124         33         1½         ECGJH53           12         2½         ECGJH712         24         ¾         ECGJH224         33         2         ECGJH63           12         3         ECGJH812         24         1         ECGJH324         33         2½         ECGJH63           12         4         ECGJH812         24         1½         ECGJH324         33         2½         ECGJH63           15         1½         ECGJH115         24         1½         ECGJH624         33         3         ECGJH63           15         1½         ECGJH215         24         2			ECGJH310		11/4	ECGJH421	30		ECGJH830
12									ECGJH1030
12         1¼         ECGJH412         21         3         ECGJH821         33         1         ECGJH33           12         1½         ECGJH512         21         4         ECGJH1021         33         1¼         ECGJH43           12         2         ECGJH612         24         ½         ECGJH124         33         1½         ECGJH53           12         2½         ECGJH712         24         ¾         ECGJH224         33         2         ECGJH63           12         3         ECGJH812         24         1         ECGJH234         33         2½         ECGJH63           12         4         ECGJH812         24         1¼         ECGJH244         33         2½         ECGJH63           15         ½         ECGJH1012         24         1½         ECGJH424         33         3         ECGJH83           15         ½         ECGJH15         24         1½         ECGJH624         36         ½         ECGJH13           15         1½         ECGJH315         24         2½         ECGJH724         36         ¾         ECGJH33           15         1½         ECGJH45         3         ECGJH83 </td <td></td> <td>3/4</td> <td>ECGJH212</td> <td></td> <td></td> <td>ECGJH621</td> <td></td> <td></td> <td>ECGJH133</td>		3/4	ECGJH212			ECGJH621			ECGJH133
12         1½         ECGJH512         21         4         ECGJH1021         33         1¼         ECGJH43           12         2         ECGJH612         24         ½         ECGJH124         33         1½         ECGJH53           12         2½         ECGJH712         24         ¾         ECGJH224         33         2         ECGJH63           12         3         ECGJH812         24         1         ECGJH324         33         2½         ECGJH73           12         4         ECGJH1012         24         1½         ECGJH424         33         3         ECGJH83           15         ½         ECGJH115         24         1½         ECGJH524         33         4         ECGJH10           15         ¾         ECGJH215         24         2         ECGJH624         36         ½         ECGJH13           15         1         ECGJH315         24         2½         ECGJH724         36         ¾         ECGJH23           15         1½         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH615         27         ½	12	1	ECGJH312				33	3/4	ECGJH233
12         2         ECGJH612         24         ½         ECGJH124         33         1½         ECGJH53           12         2½         ECGJH712         24         ¾         ECGJH224         33         2         ECGJH63           12         3         ECGJH812         24         1         ECGJH324         33         2½         ECGJH73           12         4         ECGJH1012         24         1½         ECGJH424         33         3         ECGJH83           15         ½         ECGJH215         24         1½         ECGJH624         36         ½         ECGJH13           15         1         ECGJH315         24         2½         ECGJH624         36         ¾         ECGJH23           15         1½         ECGJH315         24         2½         ECGJH624         36         ¾         ECGJH23           15         1½         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH515         24         4         ECGJH824         36         1½         ECGJH33           15         2         ECGJH615         27         ½	12					ECGJH821	33		ECGJH333
12         2½         ECGJH712         24         ¾         ECGJH224         33         2         ECGJH63           12         3         ECGJH812         24         1         ECGJH324         33         2½         ECGJH73           12         4         ECGJH1012         24         1½         ECGJH424         33         3         ECGJH83           15         ½         ECGJH115         24         1½         ECGJH624         36         ½         ECGJH13           15         1         ECGJH315         24         2½         ECGJH624         36         ½         ECGJH13           15         1½         ECGJH315         24         2½         ECGJH724         36         ¼         ECGJH23           15         1½         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH515         24         4         ECGJH1024         36         1¼         ECGJH34           15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH63           15         2½         ECGJH615         27         ½	12		ECGJH512			ECGJH1021			ECGJH433
12 3 ECGJH812 24 1 ECGJH324 33 2½ ECGJH73 12 4 ECGJH1012 24 1½ ECGJH424 33 3 ECGJH83 15 ½ ECGJH115 24 1½ ECGJH524 33 4 ECGJH10 15 ¾ ECGJH215 24 2 ECGJH624 36 ½ ECGJH13 15 1 ECGJH315 24 2½ ECGJH624 36 ⅓ ECGJH31 15 1½ ECGJH415 24 3 ECGJH824 36 1 ECGJH33 15 1½ ECGJH515 24 4 ECGJH1024 36 1¼ ECGJH33 15 1½ ECGJH515 24 4 ECGJH1024 36 1¼ ECGJH43 15 2½ ECGJH615 27 ½ ECGJH173 36 1½ ECGJH53 15 2½ ECGJH615 27 ½ ECGJH27 36 1½ ECGJH53 15 3 ECGJH815 27 1 ECGJH227 36 2 ECGJH63			ECGJH612	24		ECGJH124	33		ECGJH533
12         4         ECGJH1012         24         1½         ECGJH424         33         3         ECGJH83           15         ½         ECGJH115         24         1½         ECGJH524         33         4         ECGJH10           15         ¾         ECGJH215         24         2         ECGJH624         36         ½         ECGJH13           15         1         ECGJH315         24         2½         ECGJH724         36         ¾         ECGJH23           15         1½         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH515         24         4         ECGJH1024         36         1½         ECGJH33           15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH53           15         2½         ECGJH715         27         ¾         ECGJH227         36         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH27         36         2½         ECGJH63           15         3         ECGJH815         27         1	12	21/2	ECGJH712	24	3/4	ECGJH224	33		ECGJH633
15         ½         ECGJH115         24         1½         ECGJH524         33         4         ECGJH10           15         ¾         ECGJH215         24         2         ECGJH624         36         ½         ECGJH13           15         1         ECGJH315         24         2½         ECGJH724         36         ¾         ECGJH23           15         1¼         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH515         24         4         ECGJH1024         36         1½         ECGJH33           15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH53           15         2½         ECGJH715         27         ¾         ECGJH227         36         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH227         36         2½         ECGJH63           15         3         ECGJH815         27         1         ECGJH277         36         2½         ECGJH63	12		ECGJH812		1	ECGJH324			ECGJH733
15         ½         ECGJH215         24         2         ECGJH624         36         ½         ECGJH13           15         1         ECGJH315         24         2½         ECGJH724         36         ¾         ECGJH23           15         1½         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH515         24         4         ECGJH1024         36         1½         ECGJH33           15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH53           15         2½         ECGJH715         27         ¾         ECGJH227         36         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH63	12		ECGJH1012	24	11/4	ECGJH424	33	3	ECGJH833
15         1         ECGJH315         24         2½         ECGJH724         36         ¾         ECGJH23           15         1¼         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH515         24         4         ECGJH1024         36         1¼         ECGJH43           15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH53           15         2½         ECGJH73         2         ECGJH63         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH73	15	1/2	ECGJH115	24	11/2	ECGJH524	33		ECGJH1033
15         1¼         ECGJH415         24         3         ECGJH824         36         1         ECGJH33           15         1½         ECGJH515         24         4         ECGJH1024         36         1¼         ECGJH43           15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH53           15         2½         ECGJH715         27         ¾         ECGJH227         36         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH73	15	3/4	ECGJH215	24	2	ECGJH624	36	1/2	ECGJH136
15         1½         ECGJH515         24         4         ECGJH1024         36         1¼         ECGJH43           15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH53           15         2½         ECGJH715         27         ¾         ECGJH227         36         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH73	15	1	ECGJH315	24	21/2	ECGJH724	36	3/4	ECGJH236
15         2         ECGJH615         27         ½         ECGJH127         36         1½         ECGJH53           15         2½         ECGJH715         27         ¾         ECGJH227         36         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH73	15	11/4	ECGJH415	24	3	ECGJH824	36	1	ECGJH336
15         2½         ECGJH715         27         ¾         ECGJH227         36         2         ECGJH63           15         3         ECGJH815         27         1         ECGJH327         36         2½         ECGJH73	15	11/2	ECGJH515	24	4	ECGJH1024	36	11/4	ECGJH436
15 3 ECGJH815 27 1 ECGJH327 36 2½ ECGJH73	15	2	ECGJH615	27	1/2	ECGJH127	36	11/2	ECGJH536
	15	21/2	ECGJH715	27	3/4	ECGJH227	36	2	ECGJH636
15 4 ECC 1H1015 97 11/ ECC 1H407 96 9 ECC 1H00	15	3	ECGJH815	27	1	ECGJH327	36	21/2	ECGJH736
10   4   ECGJN1015  21   1/4   ECGJN421   30   3   ECGJN63	15	4	ECGJH1015	27	11/4	ECGJH427	36	3	ECGJH836
18 ½ ECGJH118 27 1½ ECGJH527 36 4 ECGJH10	18	1/2	ECGJH118	27	11/2	ECGJH527	36	4	ECGJH1036
18 3/4 ECGJH218 27 2 ECGJH627	18	3/4	ECGJH218	27	2	ECGJH627			

# **Dimensions**

### In Inches:

