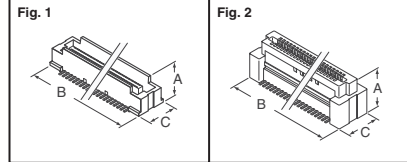


FCI Bergstak® 0.03" (0.8 mm) Pitch Mezzanine Connector System

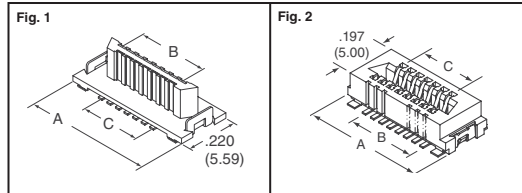


Features: • Extremely versatile high density mezzanine connector system. Surface mount attachment
• Blade-on-beam contacts allow "peeling" and prevent "stubbing" • Face polarization prevents mis-mating
• PCB polarization prevents PCB assembly errors
Plug: • Housing: G.FLCP UL 94V-0 • Terminal: Brass **Receptacle:** • Housing: G.FLCP UL 94V-0
• Terminal: Beryllium Copper • Mating Cycles: 100 • Voltage Rating: 100VAC • Current Rating: 6.5A
• Temperature Range: -40°C - 85°C

| Plug Code | Mate (Stack) Height Guide - mm | | |
|-----------|--------------------------------|------|------|
| | 1 | 2 | 3 |
| 1 | 5.0 | 9.0 | 13.0 |
| 2 | 6.0 | 10.0 | 14.0 |
| 3 | 7.0 | 11.0 | 15.0 |
| 4 | 8.0 | 12.0 | 16.0 |

| No. of Positions | Dimensions - Inch (mm) | | | Mate Height Code | Polarization | Digi-Key Part No. | Cut Tape Price Each | | | Digi-Key Part No. | Tape and Reel | | FCI Part No. |
|-----------------------------|------------------------|---------------|--------------|------------------|--------------|-------------------|---------------------|------|------|-------------------|---------------|---------|----------------|
| | A | B | C | | | | 1 | 25 | 100 | | Qty. | Pricing | |
| Fig. 1 - Plugs | | | | | | | | | | | | | |
| 40 | 0.185 (4.70) | 0.858 (21.80) | 0.236 (6.00) | 1 | Yes | 609-1667-1-ND | 2.82 | 1.74 | 1.54 | 609-1667-2-ND | 900 | 1218.82 | 61083-041402LF |
| | 0.224 (5.70) | 0.858 (21.80) | 0.236 (6.00) | 2 | Yes | 609-1669-1-ND | 2.64 | 1.63 | 1.44 | 609-1669-2-ND | 800 | 1033.64 | 61083-042402LF |
| | 0.264 (6.70) | 0.858 (21.80) | 0.236 (6.00) | 3 | Yes | 609-1671-1-ND | 2.86 | 1.77 | 1.56 | 609-1671-2-ND | 700 | 979.24 | 61083-043402LF |
| | 0.303 (7.70) | 0.858 (21.80) | 0.236 (6.00) | 4 | Yes | 609-1673-1-ND | 2.95 | 1.83 | 1.66 | 609-1673-2-ND | 600 | 894.78 | 61083-044402LF |
| 60 | 0.185 (4.70) | 1.173 (29.80) | 0.236 (6.00) | 1 | Yes | 609-1674-1-ND | 2.93 | 1.82 | 1.65 | 609-1674-2-ND | 600 | 887.96 | 61083-044422LF |
| | 0.224 (5.70) | 1.173 (29.80) | 0.236 (6.00) | 2 | Yes | 609-1675-1-ND | 2.95 | 1.83 | 1.66 | 609-1675-2-ND | 900 | 1317.62 | 61083-061402LF |
| | 0.264 (6.70) | 1.173 (29.80) | 0.236 (6.00) | 3 | Yes | 609-1677-1-ND | 2.77 | 1.72 | 1.56 | 609-1677-2-ND | 800 | 1205.20 | 61083-062402LF |
| | 0.303 (7.70) | 1.173 (29.80) | 0.236 (6.00) | 4 | Yes | 609-1679-1-ND | 2.97 | 1.85 | 1.67 | 609-1679-2-ND | 700 | 1084.86 | 61083-063402LF |
| 80 | 0.185 (4.70) | 1.173 (29.80) | 0.236 (6.00) | 1 | No | 609-1681-1-ND | 3.34 | 2.08 | 1.88 | 609-1681-2-ND | 600 | 1014.71 | 61083-064402LF |
| | 0.224 (5.70) | 1.173 (29.80) | 0.236 (6.00) | 2 | Yes | 609-1682-1-ND | 3.24 | 2.09 | 1.85 | 609-1682-2-ND | 600 | 1018.06 | 61083-064422LF |
| | 0.264 (6.70) | 1.488 (37.80) | 0.236 (6.00) | 1 | No | 609-1683-1-ND | 3.47 | 2.24 | 1.99 | 609-1683-2-ND | 900 | 1610.16 | 61083-081402LF |
| | 0.303 (7.70) | 1.488 (37.80) | 0.236 (6.00) | 2 | Yes | 609-1685-1-ND | 3.53 | 2.27 | 2.02 | 609-1685-2-ND | 800 | 1454.02 | 61083-082402LF |
| 100 | 0.264 (6.70) | 1.488 (37.80) | 0.236 (6.00) | 3 | Yes | 609-1687-1-ND | 3.75 | 2.33 | 2.11 | 609-1687-2-ND | 700 | 1305.00 | 61083-083402LF |
| | 0.303 (7.70) | 1.488 (37.80) | 0.236 (6.00) | 3 | No | 609-1688-1-ND | 3.30 | 2.13 | 1.89 | 609-1688-2-ND | 700 | 1156.79 | 61083-083422LF |
| | 0.224 (5.70) | 1.803 (45.80) | 0.236 (6.00) | 4 | Yes | 609-1689-1-ND | 3.84 | 2.39 | 2.17 | 609-1689-2-ND | 400 | 791.80 | 61083-084402LF |
| | 0.264 (6.70) | 1.803 (45.80) | 0.236 (6.00) | 1 | Yes | 609-1691-1-ND | 3.69 | 2.35 | 2.15 | 609-1691-2-ND | 650 | 1255.98 | 61083-101402LF |
| 120 | 0.224 (5.70) | 1.803 (45.80) | 0.236 (6.00) | 2 | Yes | 609-1693-1-ND | 3.98 | 2.54 | 2.32 | 609-1693-2-ND | 550 | 1148.39 | 61083-102402LF |
| | 0.264 (6.70) | 1.803 (45.80) | 0.236 (6.00) | 3 | Yes | 609-1695-1-ND | 3.83 | 2.49 | 2.27 | 609-1695-2-ND | 450 | 936.73 | 61083-103402LF |
| | 0.303 (7.70) | 1.803 (45.80) | 0.236 (6.00) | 4 | Yes | 609-1697-1-ND | 4.10 | 2.66 | 2.44 | 609-1697-2-ND | 400 | 892.36 | 61083-104402LF |
| | 0.185 (4.70) | 2.118 (53.80) | 0.236 (6.00) | 1 | Yes | 609-1699-1-ND | 4.29 | 2.74 | 2.50 | 609-1699-2-ND | 650 | 1463.30 | 61083-121402LF |
| 140 | 0.224 (5.70) | 2.118 (53.80) | 0.236 (6.00) | 2 | Yes | 609-1701-1-ND | 4.23 | 2.82 | 2.53 | 609-1701-2-ND | 550 | 1290.16 | 61083-122402LF |
| | 0.264 (6.70) | 2.118 (53.80) | 0.236 (6.00) | 3 | Yes | 609-1703-1-ND | 4.12 | 2.75 | 2.46 | 609-1703-2-ND | 450 | 1046.59 | 61083-123402LF |
| | 0.303 (7.70) | 2.118 (53.80) | 0.236 (6.00) | 4 | Yes | 609-1705-1-ND | 4.21 | 2.81 | 2.52 | 609-1705-2-ND | 400 | 950.91 | 61083-124402LF |
| | 0.185 (4.70) | 2.433 (61.80) | 0.236 (6.00) | 1 | Yes | 609-1707-1-ND | 4.44 | 2.95 | 2.65 | 609-1707-2-ND | 650 | 1598.40 | 61083-141402LF |
| 160 | 0.224 (5.70) | 2.433 (61.80) | 0.236 (6.00) | 2 | Yes | 609-1709-1-ND | 4.59 | 3.06 | 2.74 | 609-1709-2-ND | 550 | 1399.45 | 61083-142402LF |
| | 0.264 (6.70) | 2.433 (61.80) | 0.236 (6.00) | 3 | Yes | 609-1711-1-ND | 7.09 | 4.91 | 4.34 | 609-1711-2-ND | 450 | 1838.99 | 61083-143402LF |
| | 0.303 (7.70) | 2.433 (61.80) | 0.236 (6.00) | 4 | Yes | 609-1713-1-ND | 3.71 | 2.36 | 2.16 | 609-1713-2-ND | 400 | 1063.48 | 61083-144402LF |
| | 0.185 (4.70) | 2.748 (69.80) | 0.236 (6.00) | 4 | Yes | 609-1721-1-ND | 4.91 | 3.40 | 3.01 | 609-1721-2-ND | 400 | 1132.76 | 61083-164402LF |
| 180 | 0.303 (7.70) | 3.063 (77.80) | 0.236 (6.00) | 4 | Yes | 609-1729-1-ND | 5.30 | 3.61 | 3.25 | 609-1729-2-ND | 400 | 1223.06 | 61083-184402LF |
| | 0.224 (5.70) | 3.378 (85.80) | 0.236 (6.00) | 2 | Yes | 609-1733-1-ND | 7.54 | 5.18 | 4.71 | 609-1733-2-ND | 550 | 2373.60 | 61083-202402LF |
| Fig. 2 - Receptacles | | | | | | | | | | | | | |
| 40 | 0.145 (3.70) | 0.858 (21.80) | 0.236 (6.00) | 1 | Yes | 609-1613-1-ND | 2.86 | 1.78 | 1.61 | 609-1613-2-ND | 800 | 1137.40 | 61082-041402LF |
| | 0.145 (3.70) | 0.858 (21.80) | 0.236 (6.00) | 1 | No | 609-1614-1-ND | 2.95 | 1.83 | 1.66 | 609-1614-2-ND | 800 | 1172.52 | 61082-041422LF |
| | 0.303 (7.70) | 0.858 (21.80) | 0.268 (6.80) | 2 | Yes | 609-1615-1-ND | 2.95 | 1.84 | 1.67 | 609-1615-2-ND | 500 | 760.73 | 61082-042402LF |
| | 0.303 (7.70) | 0.858 (21.80) | 0.268 (6.80) | 2 | No | 609-1616-1-ND | 3.14 | 1.95 | 1.71 | 609-1616-2-ND | 500 | 783.26 | 61082-042422LF |
| 60 | 0.461 (11.70) | 0.858 (21.80) | 0.252 (6.40) | 3 | Yes | 609-1617-1-ND | 3.09 | 1.91 | 1.68 | 609-1617-2-ND | 300 | 476.36 | 61082-043402LF |
| | 0.145 (3.70) | 1.173 (29.80) | 0.236 (6.00) | 1 | Yes | 609-1619-1-ND | 3.28 | 2.11 | 1.88 | 609-1619-2-ND | 800 | 1350.59 | 61082-061402LF |
| | 0.303 (7.70) | 1.173 (29.80) | 0.268 (6.80) | 2 | Yes | 609-1621-1-ND | 3.62 | 2.33 | 2.07 | 609-1621-2-ND | 500 | 947.03 | 61082-062402LF |
| | 0.303 (7.70) | 1.173 (29.80) | 0.268 (6.80) | 2 | No | 609-1622-1-ND | 3.37 | 2.11 | 1.93 | 609-1622-2-ND | 500 | 882.89 | 61082-062422LF |
| 80 | 0.461 (11.70) | 1.173 (29.80) | 0.252 (6.40) | 3 | Yes | 609-1623-1-ND | 3.29 | 2.12 | 1.88 | 609-1623-2-ND | 300 | 544.02 | 61082-063402LF |
| | 0.145 (3.70) | 1.488 (37.80) | 0.236 (6.00) | 1 | Yes | 609-1625-1-ND | 3.89 | 2.42 | 2.19 | 609-1625-2-ND | 800 | 1547.77 | 61082-081402LF |
| | 0.303 (7.70) | 1.488 (37.80) | 0.268 (6.80) | 2 | Yes | 609-1627-1-ND | 4.49 | 2.70 | 2.36 | 609-1627-2-ND | 500 | 1036.79 | 61082-082402LF |
| | 0.461 (11.70) | 1.488 (37.80) | 0.252 (6.40) | 3 | Yes | 609-1629-1-ND | 3.96 | 2.52 | 2.31 | 609-1629-2-ND | 300 | 644.19 | 61082-083402LF |
| 100 | 0.145 (3.70) | 1.803 (45.80) | 0.236 (6.00) | 1 | Yes | 609-1631-1-ND | 4.19 | 2.72 | 2.49 | 609-1631-2-ND | 800 | 1788.94 | 61082-101402LF |
| | 0.303 (7.70) | 1.803 (45.80) | 0.268 (6.80) | 2 | Yes | 609-1633-1-ND | 4.14 | 2.76 | 2.47 | 609-1633-2-ND | 400 | 934.53 | 61082-102402LF |
| | 0.461 (11.70) | 1.803 (45.80) | 0.252 (6.40) | 3 | Yes | 609-1635-1-ND | 4.20 | 2.80 | 2.51 | 609-1635-2-ND | 300 | 724.12 | 61082-103402LF |
| | 0.145 (3.70) | 2.118 (53.80) | 0.236 (6.00) | 1 | Yes | 609-1637-1-ND | 4.31 | 2.87 | 2.57 | 609-1637-2-ND | 800 | 1909.05 | 61082-121402LF |
| 120 | 0.303 (7.70) | 2.118 (53.80) | 0.268 (6.80) | 2 | Yes | 609-1639-1-ND | 5.00 | 3.22 | 2.86 | 609-1639-2-ND | 400 | 1067.52 | 61082-122402LF |
| | 0.461 (11.70) | 2.118 (53.80) | 0.252 (6.40) | 3 | Yes | 609-1641-1-ND | 4.52 | 3.01 | 2.70 | 609-1641-2-ND | 300 | 777.32 | 61082-123402LF |
| | 0.145 (3.70) | 2.433 (61.80) | 0.236 (6.00) | 1 | Yes | 609-1643-1-ND | 4.77 | 3.18 | 2.85 | 609-1643-2-ND | 700 | 1852.13 | 61082-141402LF |
| | 0.461 (11.70) | 2.433 (61.80) | 0.252 (6.40) | 3 | Yes | 609-1647-1-ND | 4.79 | 3.32 | 2.94 | 609-1647-2-ND | 300 | 844.16 | 61082-143402LF |
| 160 | 0.145 (3.70) | 2.748 (69.80) | 0.236 (6.00) | 1 | Yes | 609-1649-1-ND | 5.22 | 3.62 | 3.20 | 609-1649-2-ND | 700 | 2108.54 | 61082-161402LF |
| | 0.145 (3.70) | 3.063 (77.80) | 0.236 (6.00) | 1 | Yes | 609-1655-1-ND | 7.11 | 5.04 | 4.64 | 609-1655-2-ND | 700 | 3092.53 | 61082-181402LF |
| 200 | 0.145 (3.70) | 3.378 (85.80) | 0.236 (6.00) | 1 | Yes | 609-1661-1-ND | 7.80 | 5.54 | 5.10 | 609-1661-2-ND | 700 | 3395.71 | 61082-201402LF |

Conan® High Density, Low Profile 0.04" (1.00mm) Pitch Mezzanine Connector System



The Conan 1.0mm mezzanine connector system provides a rugged, mechanically secure, high density electrical interface between parallel printed circuit boards.

Features: • "Snap" engagement contacts assure secure mating with an audible "click" • Connector housings feature "lead-in" angles to assist in mating • Mating polarization prevents backward connections
Applications: • Portable and mobile electronic equipment • Medical and Instrumentation • Office Equipment • Communications and Networking Equipment **Mechanical Performance:** • Mating Force: 125g per contact maximum • Unmating Force: 45g per contact minimum • Durability: 30 mating cycles **Electrical Performance:** • Insulation Resistance: 1,000MΩ minimum • Contact Resistance: 30mΩ maximum • Withstanding Voltage: 500VAC, RMS at 60Hz • Current Rating: 1.0A continuous (per contact, all contacts powered)

| No. of Positions | Overall Mated Height With Receptacle (mm) | Dimensions - Inch (mm) | | | Digi-Key Part No. | Price Each | | | Tape and Reel | | FCI Part No. |
|-----------------------|---|------------------------|---------------|---------------|-------------------|------------|------|------|---------------|---------|---------------|
| | | A | B | C | | 1 | 25 | 100 | Qty. | Pricing | |
| Fig. 1 - Plugs | | | | | | | | | | | |
| 9 | | 0.366 (9.30) | 0.157 (4.00) | 0.118 (3.00) | 609-1570-ND | 1.50 | .89 | .77 | — | — | 91910-21109LF |
| 11 | | 0.406 (10.30) | 0.197 (5.00) | 0.157 (4.00) | 609-1571-ND | 1.54 | .89 | .79 | — | — | 91910-21111LF |
| 15 | .163 (4.15) | 0.484 (12.30) | 0.276 (7.00) | 0.236 (6.00) | 609-1572-ND | 1.80 | 1.07 | .95 | — | — | 91910-21115LF |
| 21 | | 0.602 (15.30) | 0.394 (10.00) | 0.354 (9.00) | 609-1573-ND | 2.00 | 1.20 | 1.05 | — | — | 91910-21121LF |
| 25 | | 0.681 (17.30) | 0.472 (12.00) | 0.433 (11.00) | 609-1574-ND | 2.16 | 1.29 | 1.15 | — | — | 91910-21125LF |
| 31 | | 0.799 (20.30) | 0.591 (15.00) | 0.551 (14.00) | 609-1575-ND | 2.45 | 1.51 | 1.31 | — | — | 91910-21131LF |
| 41 | | 0.996 (25.30) | 0.787 (20.00) | 0.748 (19.00) | 609-1576-ND | 2.90 | 1.80 | 1.63 | — | — | 91910-21141LF |
| 51 | .163 (4.15) | 1.193 (30.30) | 0.984 (25.00) | 0.945 (24.00) | 609-1577-ND | 3.41 | 2.12 | 1.92 | — | — | 91910-21151LF |
| 69</ | | | | | | | | | | | |