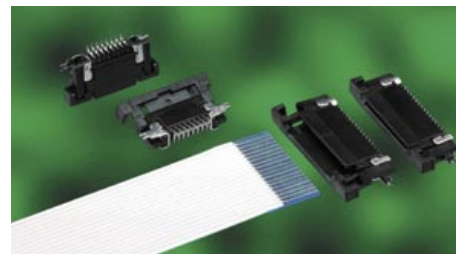




Connectors for Flexible Circuitry (FFC/FPC/CIC)

FCI offers a complete range of innovative flex circuit products with Light Insertion Force (LIF) and Zero Insertion Force (ZIF), vertical and right-angle orientations, surface-mount and thru-hole terminations—in contact spacing options all the way down to 0.3 mm. Further options are available, such as cable locking, backflip actuators, and additional mounting devices.



Features ▶

- Gas-tight contact system
- Broad offering
- ZIF with prehold
- Backflip options
- Low profile and small footprint

Benefits ▶

- Highly reliable performance
- Product for many applications
- Improved application quality
- Optimized PCB utilization

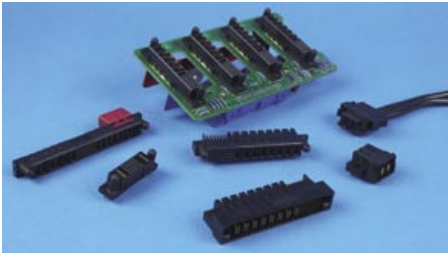
Applications ▶

- Displays
- Process control
- MicroTCA/embedded systems
- Barcode scanners/handhelds
- Human-machine interfaces

Product Specifications ▶

Part Number*	Series	Pitch (mm)	Height (mm)	Contact Location	ZIF/Non-ZIF	Positions Available
10061122	YLL-D	0.3	0.9	Down	ZIF	15, 21, 33, 35, 39, 41
10064555	YLL-U	0.3	0.9	Upper	Non-ZIF	23, 31, 33, 35, 37, 39
10013057	SFYL-D	0.3	1.2	Down	Non-ZIF	17, 21, 25, 29, 31, 35, 45
10017251	SFYL-U	0.3	1.2	Upper	Non-ZIF	11, 15, 19, 23, 25, 27, 31, 39, 45, 51
62789	SFY	0.3	2.0	Down	ZIF	27, 45, 51, 57, 67
10051806	GLH	0.4	1.2	Down	ZIF	57, 60
10042867	VLH	0.5	1.3	Down	ZIF	40, 45, 50
10051922	VLL	0.5	1.3	Down	ZIF	8, 10, 11, 12, 14, 15, 16, 18, 20, 22, 24, 26, 28, 30
59453-xx1	SFVL-D	0.5	0.9	Down	ZIF	4, 5, 6, 7, 8, 9, 12
59453-xx2	SFVL-U	0.5	0.9	Upper	ZIF	4, 5, 6, 8
10014265	SFVA	0.5	2.0	Both	ZIF	60
10054365	SFVE	0.5	1.2	Upper	ZIF	18, 20, 28, 30
62684-xx1	OPU-D	0.5	2.0	Down	ZIF	38, 40, 45, 50, 57, 60
62684-xx2	OPU-U	0.5	2.0	Upper	ZIF	32, 34, 36, 40, 43, 45, 50, 55, 57
SFVxxR	SFV-R	0.5	1.8	Right angle	ZIF	4-35
62674	SFV-S	0.5	2.95	Vertical	ZIF	8, 12, 16, 20, 21, 23, 24, 25, 30, 32, 33
SFW	SFW-R	1.0	2.7	Right angle	ZIF	4-30
SFW	SFW-S	1.0	3.6	Vertical	ZIF	4, 5, 6, 8, 10, 15, 16, 17, 18, 19, 20, 22, 23, 24, 26, 28, 30
HFW	HFW-S	1.0	3.6	Vertical	Non-ZIF	4-30
HFW	HFW-R	1.0	1.9	Right angle	Non-ZIF	4-33
SLW	SLW-R	1.0	4	Right angle	ZIF	4-30
SLW	SLW-S	1.0	5.5	Vertical	ZIF	4-30
HLW	HLW-R	1.0	3.9	Upper	Non-ZIF	4-32
HLW	HLW-S	1.0	5.9	Vertical	Non-ZIF	4-32

*xx = number of positions



PwrBlade® Power Management Connector System

PwrBlade® power distribution connector system from FCI includes power and signal contacts that provide power distribution and power control in a single interface. Options for either vertical or right-angle versions of both headers and corresponding receptacles deliver support for coplanar, backplane, or mezzanine connections. PwrBlade® connectors can be provided with one to 20 power contacts and zero to 148 signal contacts.

Features ▶

- Up to two levels of sequential mating
- Molded guideposts on header
- Board-retention devices
- Thru-hole or press-fit termination
- Optional AC port

Benefits ▶

- Connector system provides hot-swap capability
- Assured alignment during blind-mate operation
- Connector designed for maximum ruggedness
- Superior versatility

Applications ▶

- Industrial controls
- Power supplies
- Industrial PCs

Product Specifications ▶

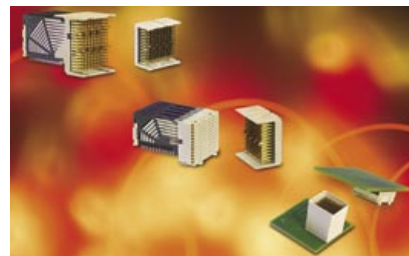
Part Number	Gender	Orientation	Configuration
51416	Receptacle	Right angle	1 power, 24 signal, 1 power
51666	Receptacle	Vertical	1 power, 24 signal, 1 power
51415	Header	Right angle	1 power, 24 signal, 1 power
51952	Header	Vertical	1 power, 24 signal, 1 power
51261	Receptacle	Vertical	12 power, 24 signal
51617	Receptacle	Vertical	12 power, 24 signal
51219	Header	Right angle	12 power, 24 signal
51625	Receptacle	Right angle	6 power, 24 signal, 5 power
51667	Receptacle	Vertical	6 power, 24 signal, 5 power
51624	Header	Right angle	6 power, 24 signal, 5 power
51860	Header	Vertical	6 power, 24 signal, 5 power
51894	Receptacle – AC cable port	Right angle	Power, signal, power, cable
51919	Receptacle – AC cable port	Right angle	Power, cable
51921	Receptacle – AC cable port	Right angle	Signal, power, cable
51923	Receptacle – AC cable port	Right angle	Power, signal, cable
51897	Receptacle – AC cable port	Vertical	Power, signal, power, cable
51925	Receptacle – AC cable port	Vertical	Power, cable
51927	Receptacle – AC cable port	Vertical	Signal, power, cable
51929	Receptacle – AC cable port	Vertical	Power, signal, cable

Note: Above part numbers are for reference, based upon server/storage infrastructure standard. Other configurations are available upon request.



Airmax VS® High-Speed Connector System

The Airmax VS® high-speed connector creates a revolutionary interconnect system, based on hard-metric building practices, offering scalability, high density, and performance headroom. Virtual Shield (VS) technology requires no interleaving shields to achieve its impressive performance; elimination of these shields results in lower cost and weight with greater construction flexibility. Airmax VS connectors, usable for differential-pair and single-ended signaling, are available for backplane, coplanar, mezzanine, and cable configurations.



Features ▶

- Shieldless connector system
- High pin density per module
- Low weight and mating forces
- Supports data speeds up to 12 Gb/s and beyond
- Full range of accessories

Benefits ▶

- Improved PCB routing
- Optimized board real estate consumption
- Provides high reliability
- Headroom to support tomorrow's designs today
- A complete connector system

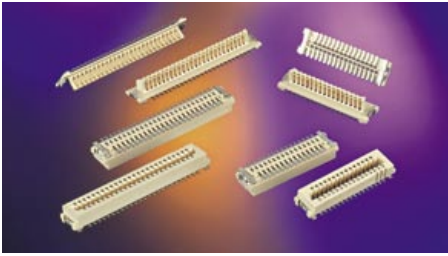
Applications ▶

- In-flight entertainment
- Gaming
- Industrial controls

Product Specifications ▶

Part Number	Connector Application	Gender	Orientation	Contacts per Module	Differential Pairs per Module
10034249	Backplane - standard gender	Header	Right angle	90	30
10034251		Receptacle	Vertical	90	30
10045267		Header	Right angle	72	24
10045271		Receptacle	Vertical	72	24
10039851		Header	Right angle	54	18
10043546		Receptacle	Vertical	54	18
10056103	Backplane - reverse gender	Header	Vertical	90	30
10056335		Receptacle	Right angle	90	30
10056101		Header	Vertical	54	18
10053656		Receptacle	Right angle	54	18
10034249	Coplanar	Header	Right angle	90	30
10056335		Receptacle	Right angle	90	30
10039851		Header	Right angle	54	18
10053656		Receptacle	Right angle	54	18
10056103	Mezzanine	Header	Vertical	90	30
10034251		Receptacle	Vertical	90	30
10056101		Header	Vertical	54	18
10043546		Receptacle	Vertical	54	18

Note: Above part number listings are for 3-pair products, the most commonly used in industrial applications. Higher pin-count products are available as standard items, up to 5-pair.



Conan® 1.0 mm and BergStak® 0.8 mm High Density Board-Stacking Connectors

Conan® and BergStak® mezzanine board-to-board connectors are excellent for mating two parallel boards in industrial applications. Designed for applications with high shock and vibration demands, these high density connectors use a durable blade-on-beam contact system that allows connectors to peel without stubbing during unmating. Lead-in and polarization assist with blind mating. An audible click signals correct mating.

Features ▶

- Blade-on-beam contact system
- Audible click on mating
- Polarized interface
- Selective plating
- Optional pick and place caps

Benefits ▶

- Durability in demanding applications
- Ensures proper mating
- Provides best-possible cost position
- Easily utilized with automated assembly

Applications ▶

- Handheld devices
- POS equipment
- Industrial controls

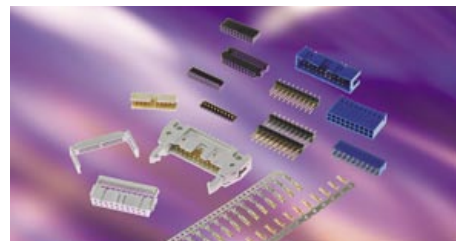
Product Specifications ▶

Part Number	Product	Description	Polarization Peg	Pick and Place Cap	Available Positions	Available Stack Heights (mm)
91900	Conan 1.0 mm pitch	Plug	No	No	9-69 positions	4.15-7
91901	Conan 1.0 mm pitch	Plug	No	Yes	9-69 positions	4.15-7
91910	Conan 1.0 mm pitch	Plug	Yes	No	9-69 positions	4.15-7
91911	Conan 1.0 mm pitch	Plug	Yes	Yes	9-69 positions	4.15-7
91920	Conan 1.0 mm pitch	Receptacle	No	No	9-69 positions	4.15-7
91921	Conan 1.0 mm pitch	Receptacle	No	Yes	9-69 positions	4.15-7
91930	Conan 1.0 mm pitch	Receptacle	Yes	No	9-69 positions	4.15-7
91931	Conan 1.0 mm pitch	Receptacle	Yes	Yes	9-69 positions	4.15-7
61083	Bergstak 0.8 mm pitch	Plug	Optional	Optional	9-69 positions	5-16
61082	Bergstak 0.8 mm pitch	Receptacle	Optional	Optional	9-69 positions	5-16



Basics+ 2.0 mm and 2.54 mm Modular Connector Systems

FCI's Basics+ program consists of 2.54 mm (0.10") and 2 mm pitch connectors for board-to-board, wire-to-board, and cable-to-board applications and offers outstanding service on industry-standard products. These include BergStik® 2.54 mm unshrouded headers, PV™ high-performance dual-spring crimp-to-wire contacts, and Minitek™ 2 mm modular system.



Features ▶

- Industry-leading product performance
- Popular industry-standard parts
- Easy product selection

Benefits ▶

- Products that hold up to industrial applications

Applications ▶

- Industrial controls
- Security
- Gaming
- Industrial equipment

Product Specifications ▶

Part Number	Connector Type	Pitch Inches (mm)	Number of Rows	Positions Available	Termination	Comments
77311	Unshrouded header	.100 (2.54)	1	2-36	Thru-hole	Selective-plated
77313	Unshrouded header	.100 (2.54)	2	4-72	Thru-hole	Selective-plated
95278	Unshrouded header	.100 (2.54)	2	4-50	SMT	Selective-plated
68000	Unshrouded header	.100 (2.54)	1	1-36	Thru-hole	Fully-plated
68001	Unshrouded header	.100 (2.54)	1	1-36	Thru-hole	Fully-plated
68002	Unshrouded header	.100 (2.54)	1	1-36	Thru-hole	Fully-plated
67996	Unshrouded header	.100 (2.54)	2	2-72	Thru-hole	Fully-plated
67997	Unshrouded header	.100 (2.54)	2	2-72	Thru-hole	Fully-plated
68602	Unshrouded header	.100 (2.54)	2	2-72	Thru-hole	Fully-plated
68786	Shunt	.100 (2.54)	2	2	NA	NA
89898	Board-mount receptacle	.100 (2.54)	2	2-25	SMT	NA
71991	Board-mount receptacle	.100 (2.54)	2	2-50	Thru-hole	NA
76384	Shrouded header	.100 (2.54)	1	2-18	Thru-hole	NA
76385	Shrouded header	.100 (2.54)	2	4-36	Thru-hole	NA
76347	Crimp-to-wire contact	.100 (2.54)	NA	NA	NA	NA
65240	Crimp-to-wire contact	.100 (2.54)	1	2-36	NA	NA
65239	Crimp-to-wire contact	.100 (2.54)	2	4-72	NA	NA
71918	IDC eject header	.100 (2.54)	2	6-64	Thru-hole	NA
71922	IDC eject header	.100 (2.54)	2	6-64	Thru-hole	Right-angle
71600	IDC receptacle	.100 (2.54)	2	4-64	NA	NA
57202	Unshrouded header	.079 (2)	2	4-50	SMT	NA
55510	Board-mount receptacle	.079 (2)	2	4-50	SMT	NA
98424	Shrouded header	.079 (2)	2	4-50	SMT	NA
77138	Crimp-to-wire contact	.079 (2)	NA	NA	NA	NA
90311	Crimp-to-wire housing	.079 (2)	2	4-50	NA	NA

Note: The above part numbers are a subset of the in-stock core range of products. Additional items are available in stock or with very short lead times.



MicroTCA™ Card-Edge Connectors

MicroTCA™ (μTCA™) vertical card-edge connectors provide 170 contacts on a 0.75 mm pitch. They enable AdvancedMC™ (AMC™) modules to be plugged directly to a backplane, via press-fit or surface-mount termination. MicroTCA architecture, now used extensively in embedded computing systems for industrial applications, creates a physically small but very powerful system inside a 4U height and 300 mm depth.

Features ▶

- Optional press-fit or surface-mount termination
- Surface-mount connectors feature additional metal retention clips
- Excellent signal integrity up to 12.5 Gb/s per lane
- Telcordia UE compliant

Benefits ▶

- MicroTCA applications becoming widely available
- Robust connector for a variety of MicroTCA applications

Applications ▶

- Industrial networking
- Gaming systems
- Industrial automation

Product Specifications ▶

Part Number	Termination Type
10058835	Surface-mount
10058831	Press-fit



D-Subminiature Connectors and Accessories

FCI's broad range of D-subminiatures includes both board-mounted and cable terminations to satisfy most industrial requirements. Board-mounted products are available in press-fit, thru-hole, and pin-in-paste terminations. Pin-in-paste technology provides the lower application cost of surface-mount reflow with the improved mechanical characteristics of thru-hole soldering. FCI's complete offering of mixed power D-subminiatures ranges from size 2V2 to 36W4.



Features ▶

- Cable and board-mount available
- Full line of accessories, including hoods, shells, and locking devices
- Thru-hole, press-fit, and pin-in-paste offerings

Benefits ▶

- One source for your entire D-sub requirement

Applications ▶

- Process-control equipment
- Industrial PC
- POS terminal

Product Specifications ▶

Part Number*	Series Name	Mounting Location	Type	Gender	Orientation	Termination	Other
DXXS33E4GX00LF	Delta D	PCB	Signal	Socket	Right angle	Thru-hole	Insert 4-40 UNC
DXXS33E4GV00LF	Delta D	PCB	Signal	Socket	Right angle	Thru-hole	Female screw 4-40 UNC
DXXP33E4GX00LF	Delta D	PCB	Signal	Pin	Right angle	Thru-hole	Insert 4-40 UNC
DXXP33E4GV00LF	Delta D	PCB	Signal	Pin	Right angle	Thru-hole	Female screw 4-40 UNC
DXXP80C4GX00LF	Delta D	PCB	Signal	Pin	Right angle	Press-fit	Insert 4-40 UNC
DXXP80C4GV00LF	Delta D	PCB	Signal	Pin	Right angle	Press-fit	Female screw 4-40 UNC
DXXS80C4GX00LF	Delta D	PCB	Signal	Socket	Right angle	Press-fit	Insert 4-40 UNC
DXXS80C4GV00LF	Delta D	PCB	Signal	Socket	Right angle	Press-fit	Female screw 4-40 UNC
DXXS24A4GV00LF	Delta D	PCB	Signal	Socket	Vertical	Thru-hole	Female screw 4-40 UNC
DXXP24A4GV00LF	Delta D	PCB	Signal	Pin	Vertical	Thru-hole	Female screw 4-40 UNC
DXXS91C4PX00LF	Delta D	PCB	Signal	Socket	Vertical	Press-fit	Insert 4-40 UNC
DXXP91C4PX00LF	Delta D	PCB	Signal	Pin	Vertical	Press-fit	Female screw 4-40 UNC
DXXS91C4PV00LF	Delta D	PCB	Signal	Socket	Vertical	Press-fit	Insert 4-40 UNC
DXXP91C4PV00LF	Delta D	PCB	Signal	Pin	Vertical	Press-fit	Female screw 4-40 UNC
DXXS24A6RV09LF	Delta D	PCB	Signal	Socket	Vertical	Pin-in-paste	Female screw 4-40 UNC
DXXP24A6RV09LF	Delta D	PCB	Signal	Pin	Vertical	Pin-in-paste	Female screw 4-40 UNC
DXXS33E6RX09LF	Delta D	PCB	Signal	Socket	Right angle	Pin-in-paste	Insert 4-40 UNC
DXXP33E6RX09LF	Delta D	PCB	Signal	Pin	Right angle	Pin-in-paste	Insert 4-40 UNC
DXWXS36A6GX08LF	Delta D	PCB	Power	Socket	Right angle	Thru-hole	Insert 4-40 UNC
DXWXP36A6GX08LF	Delta D	PCB	Power	Pin	Right angle	Thru-hole	Insert 4-40 UNC
DXWXS36A6GV08LF	Delta D	PCB	Power	Socket	Right angle	Thru-hole	Female screw 4-40 UNC
DXWXP36A6GV08LF	Delta D	PCB	Power	Pin	Right angle	Thru-hole	Female screw 4-40 UNC
DE09S064TLF	D Series	Cable	Signal	Socket	Vertical	Solder bucket	NA
DE09P064TXLF	D Series	Cable	Signal	Pin	Vertical	Solder bucket	NA
DA15S064TLF	D Series	Cable	Signal	Socket	Vertical	Solder bucket	NA
DA15P064TXLF	D Series	Cable	Signal	Pin	Vertical	Solder bucket	NA
DB25S064TLF	D Series	Cable	Signal	Socket	Vertical	Solder bucket	NA
DB25P064TXLF	D Series	Cable	Signal	Pin	Vertical	Solder bucket	NA
8656XSLTLF	8656 Series	Cable	Signal	Socket	Vertical	Crimp	Contacts ordered separately
8656XPLTLF	8657 Series	Cable	Signal	Pin	Vertical	Crimp	Contacts ordered separately
8656350064LF	8658 Series	Cable	Signal	Pin	Vertical	Crimp	Contact for 8656 series
DA3W3SA00LF	DW Series	Cable	Power and signal	Socket	Vertical	Solder bucket or crimp	Contacts ordered separately
DA3W3PA00LF	DW Series	Cable	Power and signal	Pin	Vertical	Solder bucket or crimp	Contacts ordered separately
DA7W2SA00LF	DW Series	Cable	Power and signal	Socket	Vertical	Solder bucket or crimp	Contacts ordered separately
DA7W2PA00LF	DW Series	Cable	Power and signal	Pin	Vertical	Solder bucket or crimp	Contacts ordered separately
DC8W8SA00LF	DW Series	Cable	Power and signal	Socket	Vertical	Solder bucket or crimp	Contacts ordered separately
DC8W8PA00LF	DW Series	Cable	Power and signal	Pin	Vertical	Solder bucket or crimp	Contacts ordered separately
DB5W5SA00LF	DW Series	Cable	Power and signal	Socket	Vertical	Solder bucket or crimp	Contacts ordered separately
DB5W5PA00LF	DW Series	Cable	Power and signal	Pin	Vertical	Solder bucket or crimp	Contacts ordered separately
8638PSS1005LF	DW Series	Cable	Power	Socket	NA	Solder bucket	10A Power contact for DW Series
8638PPS1005LF	DW Series	Cable	Power	Pin	NA	Solder bucket	10A Power contact for DW Series
8638PSS2005LF	DW Series	Cable	Power	Socket	NA	Solder bucket	20A Power contact for DW Series
8638PPS2005LF	DW Series	Cable	Power	Pin	NA	Solder bucket	20A Power contact for DW Series
8638PSS4005LF	DW Series	Cable	Power	Socket	NA	Solder bucket	40A Power contact for DW Series
8638PPS4005LF	DW Series	Cable	Power	Pin	NA	Solder bucket	NA

*xx = number of positions. Note: Above are representative part numbers in FCI's 'core range'; additional items available upon request.

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