

FCI PCI Express™, DIN and Card Edge Connectors

PCI EXPRESS™ 1.00MM PITCH VERTICAL CARD EDGE CONNECTORS

Series 10018783 suitable for reflow soldering
For applications in desktops and servers using PCI Express™ technology.

PCI Express™ is a trademark of PCI-SIG.

Specifications:

- Housing Color and Material: Black, high temperature nylon, glass-filled, UL94V-0
- Contact Material: Copper alloy
- Insulation Resistance: 1000MQ
- Temperature Range: -40°C to +85°C
- RoHS Compliant per FCI documentation

Features:

- Used to enable the implementation of high-speed, serial PCI Express™ architecture
- Each serial link supports 2.5 Gps (per direction)
- Through-mount tail length options for use on 1.58mm (.062") or 2.36mm (.093") thick motherboards



RoHS Compliant



Through Hole Solder

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	No. of Positions	Host PCB Thickness	Link Width	Price Each			
						1	25	100	250
649-18783-10100TLF	10018783-10100TLF	A	36	1.56mm (0.062")	1x	.45	.39	.366	.344
649-18783-10101TLF	10018783-10101TLF	A	64	1.56mm (0.062")	4x	.87	.75	.678	.665
649-18783-10103TLF	10018783-10103TLF	A	164	1.56mm (0.062")	16x	1.53	1.32	1.12	1.08
649-18783-10110TLF	10018783-10110TLF	A	36	2.36mm (0.093")	1x	.55	.49	.43	.419
649-18783-10112TLF	10018783-10112TLF	A	98	2.36mm (0.093")	8x	1.18	1.01	.892	.86
649-18783-10113TLF	10018783-10113TLF	A	164	2.36mm (0.093")	16x	1.61	1.34	1.18	1.13
* 649-118783-11013TLF	10018783-11013TLF	A	164	2.36mm (0.093")	16x	2.45	2.06	1.78	1.74

* Metal Board Locks

Surface Mount

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	No. of Positions	Host PCB Thickness	Link Width	Price Each			
						1	25	100	250
649-10061913-100CLF	10061913-100CLF	B	36	1.56mm (.062")	1x	2.53	2.05	1.80	1.75
649-10061913-102CLF	10061913-102CLF	B	98	1.56mm (.062")	8x	4.05	3.14	2.76	2.68

DIN 41612 CONNECTORS

RoHS Compliant per FCI documentation



RoHS Compliant

Headers

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	No. of Positions	Housing Style	Orientation	Tail Length	Price Each			
							1	25	100	250
649-86943273378ELF	86094327313755ELF	C	32	C/2	Right Angle	3mm	1.07	.91	.817	.793
649-8693487313755ELF	86093487313755ELF	C	48	C/2	Right Angle	3mm	1.32	1.21	1.11	1.04
649-8692645113755ELF	86092645113755ELF	C	64	B	Right Angle	3mm	1.65	1.58	1.44	1.38
649-8694647113755ELF	86094647113755ELF	C	64	C	Right Angle	3mm	1.86	1.59	1.34	1.32
649-8693967113755ELF	86093967113755ELF	C	96	C	Right Angle	3mm	4.10	2.73	2.42	2.33
649-8694647814755ELF	86094647814755ELF	D	64	R	Straight	4mm	1.49	1.31	1.24	.983
649-8693967814755ELF	8693967814755ELF	D	96	R	Straight	4mm	2.03	1.86	1.70	1.59

Receptacles

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	No. of Positions	Housing Style	Orientation	Tail Length	Price Each			
							1	25	100	250
649-8693488637E1LF	86093488613755E1LF	E	48	R/2	Right Angle	3mm	2.72	2.49	2.27	2.13
649-8694648837V1LF	86094648813755V1LF	E	64	R	Right Angle	3mm	1.60	1.47	1.34	1.26
649-8693968837V1LF	86093968813755V1LF	E	96	R	Right Angle	3mm	2.29	2.20	2.16	2.14
649-8692646147E1LF	86092646114755E1LF	F	64	B	Straight	4mm	4.60	3.61	3.12	3.02
649-8694648147V1LF	86094648114755V1LF	F	64	C	Straight	4mm	1.78	1.63	1.48	1.38
649-869396814755V1LF	869396814755V1LF	F	96	C	Straight	4mm	3.10	2.85	2.61	2.35

HCI® CONNECTOR SYSTEM

The HCI® connector system is designed to address requirements that extend beyond the capability of FCI's proven PwrBlade® connector system, the industry standard for DC power supply interfaces and power distribution. The HCI® capability for connector system provides both power and signal contacts in a single connector to enable power distribution and power control. Integrated HCI® power connector solutions enabling DC power, AC power, and signal contacts in a single molded housing, also provide incredible flexibility to address requirements for custom configurations.

Features:

- Integrated design with power, signal contacts and guides in a single connector housing
- Vented housings dramatically improve airflow and thermal performance while maintaining touch-proof design
- Integrated, industry-standard molded-in guidance system compensates for our degrees of radial misalignment for predictable cost effective blind mating
- Hard Metric mating compatibility (12.5mm from card-edge to board in the backplane)

Specifications:

- Housing: High-temperature thermoplastic (UL94V-0), black
- Contact base metal: Power – high-conductivity copper alloy; Signals – copper alloy
- Current rating: 85A/contact maximum for single power contact, 52A/contact maximum for 10 power contacts at 30°C T-Rise in still air

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Description	Orientation	Price Each			
					1	25	100	250
649-10065127-001LF	10065127-001LF	G	10DC+24S, Receptacle	Vertical	54.14	54.14	50.13	50.11

