

AMPHENOL FCI Mezzanine Connectors Amphenol FCI



This page of product is RoHS compliant.

GIG-ARRAY® HIGH-SPEED, HIGH DENSITY BOARD STACKING CONNECTORS

Connector sizes are 200 and 296 positions at stack heights from 15mm to 40mm at data rates up to 10Gb/s. Connectors utilize Ball Grid Array (BGA) technology for compatibility with SMT reflow soldering process.

Specifications:

- Housing Material: LCP
- Contact Material: High Strength Copper Alloy
- Mating Cycles: 25
- Current Rating: 1A per contact at 30°C DT
- Insulation Resistance: 100MV
- Withstanding Voltage: 500VAC
- Temperature Range: -40°C to 85°C

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Amphenol FCI Part No.	Fig.	Gender	No. of Positions	Spacing	Contact Plating	Price Each		
							1	10	100
649-55740-001LF	55740-001LF	A	Receptacle	200	5 mm	Gold	36.19	32.67	28.36
649-55741-001LF	55741-001LF	A	Receptacle	200	15 mm	Gold	37.76	34.09	29.60

MEG-ARRAY® HIGH-SPEED BOARD STACKING CONNECTORS

Connectors sizes span 100 to 400 contact positions at stack heights from 4mm to 8mm at data rates up to 10Gb/s. Add plug and receptacle contributions shown in table to determine the resulting mated height. Connectors utilize Ball Grid Array (BGA) technology for compatibility with SMT reflow soldering process.

Specifications:

- Housing Material: LCP
- Contact Material: Copper Alloy
- Durability (Mating Cycles): 50
- Current Rating: 0.45A per contact at 30°C rise
- Durability (Mating Cycles): 50

* Au over Ni with special contact geometry to meet requirements of Teleordia GR-1217.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Amphenol FCI Part No.	Fig.	Gender	No. of Positions	Stack Height: mm	Contact Plating	Price Each		
							1	10	100
649-84512-102LF	84512-102LF	B	Plug	100	4	30Au	19.82	18.40	14.15
649-84516-102LF	84516-102LF	B	Plug	200	4, 6, 8	30Au	17.92	16.64	12.80
649-84500-002LF	84500-002LF	B	Plug	300	4, 5.5, 8	15Au	11.05	10.05	8.54
649-84500-102LF	84500-102LF	B	Plug	300	4, 5.5, 8	30Au	17.44	16.19	12.45
* 649-84500-202LF	84500-202LF	B	Plug	300	4, 5.5, 8	50Au	29.31	26.46	22.97
649-84513-101LF	84513-101LF	C	Receptacle	100	4	30Au	19.27	17.40	15.10
649-84517-101LF	84517-101LF	C	Receptacle	200	4	30Au	19.96	18.53	14.25
649-84501-001LF	84501-001LF	C	Receptacle	300	4	15Au	19.33	17.45	15.15
* 649-84501-201LF	84501-201LF	C	Receptacle	300	4	50Au	29.29	26.44	22.96
649-74221-001LF	74221-001LF	C	Receptacle	400	4	15Au	21.41	19.33	16.78
649-74221-101LF	74221-101LF	C	Receptacle	400	4	30Au	27.26	24.61	21.36
649-74390-101LF	74390-101LF	C	Receptacle	400	8	30Au	31.91	28.81	25.01

RIB-CAGE™ 1.27MM (0.050") TOLERANT VERTICAL SMT DOUBLE ROW STACKING CONNECTORS

Features:

- Exclusive Rib-Cage™ multi-point, gold plated receptacle contacts optimize reliability in shock-prone and high vibration applications
- Polarization prevents mis-mating
- Mated pair offered provides PCB stack height of 6.42mm
- 1.0A DC current rating
- Contact area plating: 0.76um gold/GXT over nickel

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Amphenol FCI Part No.	Fig.	No. of Pos.	Dimensions: in. (mm)			Price Each			
				A	B	C	1	10	100	500
Headers										
649-87409-110LF	87409-110LF	D	20	0.622 (15.80)	0.525 (13.34)	0.226 (5.74)	1.83	1.66	1.42	1.18
649-87409-120LF	87409-120LF	D	40	1.122 (28.50)	1.025 (26.03)	0.226 (5.74)	3.10	2.98	2.48	2.11
649-87409-125LF	87409-125LF	D	50	1.372 (34.85)	1.275 (32.38)	0.226 (5.74)	3.78	3.63	3.03	2.57
Receptacles										
649-87024-610LF	87024-610LF	E	20	0.620 (15.748)	0.516 (13.106)	0.187 (4.75)	2.35	2.13	1.83	1.52
649-87024-615LF	87024-615LF	E	30	0.870 (22.098)	0.766 (19.456)	0.187 (4.75)	3.13	3.00	2.50	2.13
649-87024-620LF	87024-620LF	E	40	1.120 (28.448)	1.016 (25.806)	0.187 (4.75)	3.57	3.42	2.85	2.42
649-87024-625LF	87024-625LF	E	50	1.370 (34.798)	1.266 (32.156)	0.187 (4.75)	5.23	5.02	4.18	3.55

