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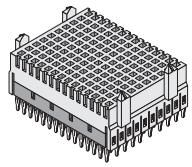

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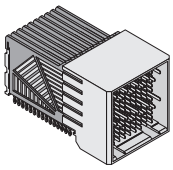

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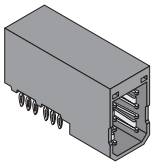


FCI AIRMAX VS® (VIRTUAL SHIELDS) HIGH-SPEED BACKPLANE CONNECTOR SYSTEM

High-speed backplane connector system demonstrated to support differential signaling for data rates up to 25 Gb/s. Connector contacts can be allocated to Differential Pair Signals, Single Ended Signals, or Power. The connector's shieldless design provides options for wider column spacing to permit more traces to be routed on a single board layer to help reduce PCB layer count and cost.

Specifications:

- Termination Style: Press-fit
- Contact Base Material: Copper alloy
- Contact Plating: Au over Ni
- Housing Material: Hi-temp thermo plastic
- RoHS Compliant per FCI documentation
- Tail Plating:
  1: SnPb over Ni
  2: Sn over Ni

RoHS Compliant

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	No. of Pos.	Description	Tail Plating	Column Spacing	IMLAs	Price Each		
								1	25	50
649-10016537-101LF	10016537-101LF	A	150	Receptacle 5-Pair, Signal	2	2mm	10	26.20	24.89	23.58
649-10025613-101LF	10025613-101LF	B	150	Header 4 Wall Right Angle 5-Pair, Signal	2	2mm	10	35.50	32.27	30.66
649-10035465-101LF	10035465-101LF	A	120	Receptacle 4-Pair, Signal	1	3mm	10	28.16	25.60	24.32
649-10035515-101LF	10035515-101LF	B	120	Header 4 Wall Right Angle 4-Pair, Signal	1	3mm	10	34.64	31.49	29.91
649-10043546-101LF	10043546-101LF	A	54	Receptacle 3-Pair, Signal	2	2mm	6	5.64	5.12	4.87
649-10039851-101LF	10039851-101LF	B	54	Header 4 Wall Right Angle 3-Pair, Signal	2	2mm	6	14.53	13.81	13.08
649-10045271-101LF	10045271-101LF	A	72	Receptacle 16MM	2	2mm	8	7.52	6.84	6.49
649-10045267-101LF	10045267-101LF	B	72	Header 4 Wall Right Angle	2	2mm	8	9.25	8.41	7.99
649-10028916-4555P00PLF	10028916-4555P00PLF	-	4	Receptacle Vertical, Power	1	- - -	- - -	12.84	11.67	11.09
649-10028917-001LF	10028917-001LF	C	4	Header Right Angle, Power	1	- - -	- - -	6.15	5.60	5.32
649-10037908-101LF	10037908-101LF	-	- - -	Guide Pin 7.2MM, 2.53MM Long	- - -	- - -	- - -	2.29	2.08	1.98
649-10037909-101LF	10037909-101LF	-	- - -	Guide Module R/A 7.2MM	- - -	- - -	- - -	2.98	2.71	2.57
649-10037910-101LF	10037910-101LF	-	- - -	Guide Pin External 10.8MM	- - -	- - -	- - -	2.29	2.08	1.98
649-10037912-101LF	10037912-101LF	-	- - -	Guide Module Assembly 10.8MM	- - -	- - -	- - -	3.44	3.13	2.97
649-10037911-102LF	10037911-102LF	-	- - -	Guide Pin Internal 10.8MM	- - -	- - -	- - -	2.48	2.26	2.14

METRAL® 2.00MM MODULAR INTERCONNECT SYSTEM

Mix low and high speed signal modules. Mix signal and power modules. Designed in accordance with IEC 61076-4-104. Contact plating meets Telcordia Central office.

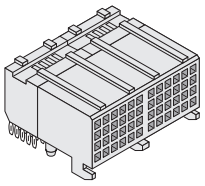
Specifications:

- Contact plating: 30µ" gold
- Tail plating: .80µm (30 pin) gold, IEC class 2 gold
- Housing material: Glass-filled LCP
- Temperature: 55°C to +105°C
- Insulation resistance: 1000MΩ
- Withstanding voltage: 1000Vrms
- Current rating: 1.0A
- Tail length:
  Header: 4.30mm (.169")
  Receptacle: 2.73mm (.107")

Metral P/N	Row	Contact Code MOD. 1					
		1	2	3	4	5	6
649-89006-110	E	1	1	1	1	1	1
	D	1	1	1	1	1	1
	C	1	1	1	1	1	1
	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

Metral P/N	Row	Contact Code MOD. 1					
		1	2	3	4	5	6
649-89006-111	E	3	3	3	3	3	3
	D	3	3	3	3	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	3	3	3	3	3	3

A



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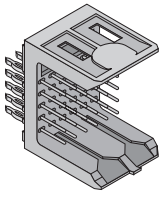

4 Row Receptacles

• Right Angle • Press Fit

For quantities of 200 and up, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Pos.	Description	Price Each			
					1	25	50	100
649-88945-102	88945-102	A	24	4 row signal receptacle, right angle, press fit	2.26	2.05	1.95	1.85
649-88946-102	88946-102	A	48	4 row signal receptacle, right angle, press fit	4.34	3.95	3.75	3.55
649-88947-102	88947-102	A	96	4 row signal receptacle, right angle, press fit	7.88	7.17	6.81	6.45

RoHS Compliant

5 Row Receptacles

• Right Angle • Press Fit • RoHS Compliant per FCI documentation

For quantities of 200 and up, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Pos.	Description	Price Each			
					1	25	50	100
649-89047-102LF	89047-102LF	A	30	5 row signal receptacle, right angle, press fit	2.84	2.58	2.45	2.32
649-89093-102LF	89093-102LF	A	60	5 row signal receptacle, right angle, press fit	5.41	4.92	4.67	4.43
649-89093-102LF	89093-102LF	A	60	5 row signal receptacle, right angle, press fit	5.41	4.92	4.67	4.43

5 Row Headers

• Straight • Press Fit • Wide Body

For quantities of 200 and up, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Pos.	Description	Price Each			
					1	25	50	100
649-89006-111	89006-111	B	30	5 row signal header, straight, press fit, wide body	2.73	2.48	2.35	2.23
649-89006-110	89006-110	B	30	5 row signal header, straight, press fit, wide body	2.57	2.34	2.22	2.10

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