

METRAL® HIGH SPEED CONNECTOR SYSTEM



METRAL® HIGH SPEED CONNECTOR INFORMATION

- Documentation
 - High Speed Product Focus
 - Metral Core Product Selector
 - Metral Application Specifications
 - Metral Standard Signal Connectors
 - Metral High Speed Electrical Performance
 - Metral 1000
 - Metral 2000
 - Metral 4000
- The METRAL® HIGH SPEED backpanel connectors series 1000, 2000 and 4000 are designed for a signal performance of 5Gbps and more.
- Features
 - Architecture according to IEC 61076-4-104
 - Performance according to Telcordia* GR1217-CORE
 - Part of the Metral® system to allow performance and cost efficiency
 - 2 mm square pitch for efficient straight vertical and horizontal routing
 - 5 and 8 row

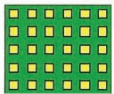
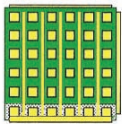
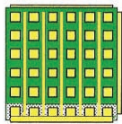
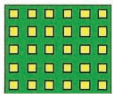
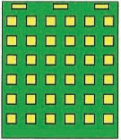
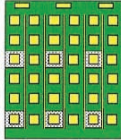
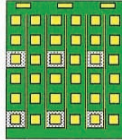


- Applications
 - Servers
 - Data Storage devices
 - Switches
 - Transmission

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Comparison of connector structures and signal speed

Metral® 2mm High-Speed Connectors			
Standard Metral Receptacle	1000 Series Receptacle		4000 Series Receptacle
 <ul style="list-style-type: none"> Unshielded contact array 	 <ul style="list-style-type: none"> Stripline shields between columns Outer ground shield Dedicated ground row 		 <ul style="list-style-type: none"> Stripline shields between columns Outer ground shield Dedicated ground row Optimized contact geometry for 100 differential impedance
Standard Metral Header	1000 Series Header	2000 Series Header	4000 Series Header
 <ul style="list-style-type: none"> Unshielded contact array 	 <ul style="list-style-type: none"> Unshielded contact array Outer ground shield 	 <ul style="list-style-type: none"> Stripline shields between columns Outer ground shield Dedicated ground rows 	 <ul style="list-style-type: none"> Stripline shields between columns Outer ground shield Dedicated ground rows Optimized contact geometry for 100 differential impedance



Insulator



Contacts



Ground Structures



Contacts Connected to Ground Structures

	1000 Series Header	2000 Series Header	4000 Series Header
1000 Series Receptacle	622 Mb/s	1.25 Gb/s	2.5 Gb/s
4000 Series Receptacle	1.25 Gb/s	2.5 Gb/s	5 Gb/s