



# Eye-Opener®

VHDM® ASSEMBLIES

## Technical Summary

GORE™ EYE-OPENER® 6 Cable Assemblies make it feasible to cable high data rate signals directly to the VHDM backplane connectors. The cable assemblies allow high data rate signals to be transmitted farther or packaged in smaller cables (or a combination of the two) with exceptional signal fidelity and reliability. This is accomplished by using our expanded PTFE dielectric cable, which offers the lowest loss and smallest size available. GORE™ EYE-OPENER® 6 Cable Assemblies are compatible with VHDM backplane connectors supplied by Teradyne Connection Systems and other licensed suppliers.

GORE™ EYE-OPENER® 6 Cable Assemblies offer the most open eye pattern through precision manufacturing, innovative design, and the use of our unique materials. Gore cable assemblies offer the best and most consistent combination of low loss, low crosstalk, low skew, controlled capacitance, and controlled impedance. By optimizing these properties, our assemblies provide the widest eye patterns available at this density.

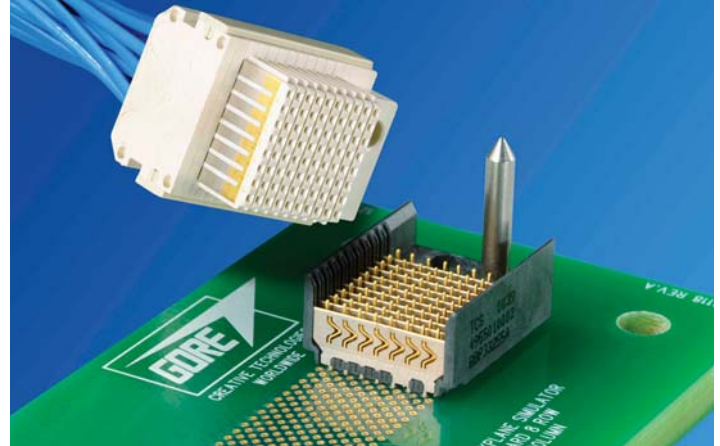
GORE™ EYE-OPENER® 6 Cable Assemblies bring outstanding bandwidth density right down to the pins on the backplane connector. Low crosstalk from integral shielding preserves the eye pattern opening so that these cable assemblies assure error free data transmission in a high-density 2mm system. They can mate directly to daughter cards and backplane connectors.

Gore is the only company to offer cable assemblies that are plug compatible with most major 2mm standards including:

- EYE-OPENER® 1 (IEC 1076-4-102, Metral, Z-Pack FB, Millipacs 1)
- EYE-OPENER® 2 (IEC 1076-4-101, Z-Pack HM, Millipacs 2)
- EYE-OPENER® 3 (HDM and HDM+)
- EYE-OPENER® 4 (IEC 1076-4-101, Z-Pack HM, Millipacs 2)\*
- EYE-OPENER® 5 (Fas-tek)
- EYE-OPENER® 6 (6 and 8 Row VHDM and 6 Row VHDM-HSD)

\*When used with MRV Shroud

With over 100 million field proven connections, dozens of major OEMs already depend on the family of GORE™ EYE-OPENER® Cable Assemblies for high performance and reliability. Give us a call or visit [gore.com](http://gore.com) for more information about your specific application.



## Features and Benefits

- Compatible with Teradyne Connection Systems (VHDM)
- Low loss, low crosstalk, low skew
- Controlled impedance, controlled capacitance
- Scalable in size and performance
- Polarization options available
- Robust strain relief
- EMI shielding available
- 20-30% longer cable lengths\*
- 20-30% smaller cable diameters\*

\*GORE™ EYE-OPENER +® Cable Technology

## CABLE CONNECTOR SPECIFICATIONS

Physical	
Mating Pin Length	4.25, 4.75, 6.25mm
Operating Temp.	-55°C to +105°C
Connector Body	Glass Filled Liquid Crystal Polymer, UL94VO
Contacts	Beryllium Copper per QQ-C-533; 0.75mm min. Au over 1.25mm min. Ni Plating in Contact Area
Mechanical	
Wafer-to-Wafer Retention	6.5 N min.
Contact Normal Force (max)	0.70 N
Electrical	
Voltage Rating	250 VAC
Current Rating	1.0 @ 70°C
Insulation Resistance	100 Megaohms min.
Dielectric Withstanding Voltage	500 V
Contact Resistance	<20 Milliohms

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