

## EXAMAX2® Cable Assembly

### EXAMAX2® CABLE BACKPLANE SYSTEMS

EXAMAX2® Cable Backplane Systems offer high density cable assemblies for both internal and external applications that are capable of delivering high speed performance of 112Gb/s per channel. EXAMAX2® cable applications include – internal OverPass™ cables, external I/O cables, cabled midplane and cabled backplane.

- 112G performance with backward compatibility to ExaMAX® and ExaMAX+®
- Durable, reliable and protected interface eliminates pin stubbing
- Supports both 85Ω and 100Ω systems
- Fully passive copper connector and cable performance to optimize system costs
- Addresses system tolerances, blind mating and proper keying



#### TARGET MARKETS



#### FEATURES

- Capable of supporting 112Gb/s data rates
- Revolutionary beam-on-beam contact interface
- Hermaphroditic mating interface protects mating beams
- Efficient 92Ω design
- Internal & external IO systems
- Engineered wire management & termination
- Utilizes individual twin-axial cable
- Integration of float, alignment, and keying – all in one system

#### BENEFITS

- Supports present and future bandwidth needs
- Superior signal integrity performance
- Durable, reliable and protected interface eliminates pin stubbing
- Supports both 85Ω and 100Ω systems
- Addresses IO needs for both inside the box and outside the box cabling
- Impedance maintained and cross talk minimized in the wire termination
- Accommodates either planar or single differential pair cable construction
- Address system tolerances, blind mating, and proper keying

## TECHNICAL INFORMATION

### MATERIAL

- Contacts: High performance Copper Alloy
- Housings: High Performance thermoplastic
- Raw Cable: Ag plated Copper conductors with foam insulation covered by conductive foil

### ELECTRICAL PERFORMANCE

- Contact Resistance: 10mΩ max. – change from initial reading
- Current Rating (less than 30°C temperature rise above ambient): signal contact: 0.50 Amps/contact – ground contact: 2 Amps/contact
- Operating Voltage: 50VAC RMS

### MECHANICAL PERFORMANCE

- Mating Force: 0.36N max. per contact, Unmating Force: 0.12 N min. per contact
- Cable Strain Relief: 100N min. when axial load is applied directly to cable
- Panel Retention Frame: 120N min. when axial load applied to cable latched in frame

### ENVIRONMENTAL

- Telcordia GR-1217-CORE Central Office qualification pending

### APPROVALS AND CERTIFICATIONS

- EIA 364: Electrical Connector/Socket Test Procedures Including Environmental Classifications
- IEC 60512: Connectors for Electronic Equipment –Tests and Measurement

### SPECIFICATIONS

- Amphenol Product Specification: GS-12-1641
- Amphenol Application Specification: GS-20-0626

### PACKAGING

- Cable Packaging Specification: GS-14-1272

### TARGET MARKETS/APPLICATIONS



Switches  
Routers



Storage Systems  
Router  
Server



Ultrasound Equipment