First to meet rigorous Telcordia GR-1435 specifications, Molex launches the low-profile VersaBeam™ POD Cable Assemblies which mate to Avago parallel optical modules, optimizing airflow and cable management for next-generation applications in emerging high-speed data and computer markets.

Molex’s low-profile, 12-fiber VersaBeam™ POD (parallel optical device module) Cable Assemblies (also known as PRIZM* LightTurn™ cable assemblies) are designed to mate to Avago Technologies’ 120 Gbps MicroPOD† and MiniPOD‡ parallel optic modules. The 1.80mm jacketed-round and bare-fiber-ribbon cable assemblies perpendicularly mate to the top of the optical modules, providing simple assembly and optimum airflow on the PCB. Multiple 12-fiber VersaBeam interconnects can be consolidated to a single I/O assembly on the front or back panel by using either 24-, 48-, and 72-fiber MT ferrules in Molex’s high-density interconnects including HBMT™, Array and Circular MT connectors.

For additional information, visit: www.molex.com/link/versabeampod.html.

FEATURES AND BENEFITS

- Innovative perpendicular mating interface with Avago Technologies’ parallel optical modules for board-mounted, row or clustered layouts provides optimum airflow on the PCB and ribbon-cable management above the optical modules, provides improved density and fiber management compared to Small Form-factor Pluggable (SFP) and parallel optic transceivers and is capable of multiple re-matings to the Avago MiniPOD module
- Molex developed new process controls to meet the rigorous GR-1435 specifications for environmental testing required by telecom customers; cable assemblies meet Telcordia GR-1435 requirements required by telecommunications equipment providers; Molex is the first cable assembly supplier to meet these requirements
- 12-Fiber, 1.80mm jacketed round and bare-ribbon-fiber assemblies available; jacketed round cable allows cable to be routed in any direction while protecting the fiber during installation; the variety of cable options provides design flexibility
- VersaBeam POD terminations can be aggregated to 24-, 48- and 72-fiber MT ferrules so that high-density connections can be achieved with Molex HBMT™, Array and Circular MT connectors
- Laser-cleaved collimated, expanded-beam ferrule interface provides excellent optical performance without the time consuming fiber polishing, cleaning and inspection requirements
- Molex is the only end-to-end solution supplier, from front-panel to blind-mate optical backplane applications; components are designed to work together for optimum performance ensuring functional end-to-end optical links

SPECIFICATIONS

**Reference Information**

12-Fiber Ribbon VersaBeam POD Cable Mates to:
- Avago MicroPOD† Modules
- Avago MiniPOD ‡ Modules

12-Fiber 1.80mm Round Jacketed VersaBeam POD Cable Mates to:
- Avago MiniPOD Modules

Interface to Module:
- VersaBeam POD ferrule with Total Internal Reflection (TIR) Lens
- The VersaBeam POD connector has integrated latches that secure the ferrule to the MicroPOD and MiniPOD modules

**Physical**

Ribbon-Fiber VersaBeam POD Connector:
- 5.70 by 7.40mm
- 1.80mm Jacketed Round VersaBeam POD Connector:
  - 4.80 by 28.50mm
- Number of Fibers per VersaBeam POD Connector: 12
- Fiber Type: 50/125μm

**Optical**

Insertion Loss: 2.0 dB with Interposer

**Environment**

VersaBeam POD Cable qualified to operating temperature: -40 to +75°C

Mechanical
- Designed for on-board cable routing
- Proof test: 2.2N

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PRIZM* LightTurn™ is a trademark of US Conec Ltd.
MicroPOD† and MiniPOD‡ are trademarks of Avago Technologies.
## APPLICATIONS

- Telecommunication Applications
  - Routers
  - Switches
- Emerging High-Speed ComputerCom Applications
  - High-performance computing
- High-Speed Test Equipment
  - IC testing

## VersaBeam™ POD Cable Assemblies

**Design of VersaBeam™ POD connectors allows for the tight spacing of Avago modules and improved cable management as ribbon fiber can route over existing modules.**

## ADDITIONAL INFORMATION

- **VersaBeam™ POD Bare-Ribbon Cable Assemblies**
- **VersaBeam™ POD 1.80mm Jacketed Round Cable Assemblies**

## ORDERING INFORMATION

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<th>Length</th>
<th>Fiber Density</th>
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*MicroPOD† and MiniPOD‡ are trademarks of Avago Technologies*

[www.molex.com/link/versabeampod.html](http://www.molex.com/link/versabeampod.html)