

Designed as a miniature detachable connector for high speed board mounted parallel optic modules, the PRIZM® LightTurn® connector provides passive alignment and novel retention features allowing multiple re-matings perpendicular to the printed circuit board. The PRIZM® LightTurn® connector consists of a multi-fiber ferrule with a photonic turn TIR lens array accepting cleaved fibers with an accompanying connector housing. The termination is simple and low cost requiring no polishing of fibers and easy testing, yet providing excellent coupling to high bandwidth mini-parallel optic modules.

The use of the PRIZM® LightTurn® connector in combination with US Conec's MTP® brand MPO style connector provides a significant increase in card edge port density compared to using SFP transceivers, conventional array transceivers, or parallel active optical cables on the card edge. The connector is suitable for use across multiple applications including telecom, datacom, and the emerging high speed computercom markets.

Features

- TIR (total internal reflection) lens
- Wavelength independent optical grade material
- Bidirectional components
- Integrated alignment pins
- Housing protects TIR lens array
- Ferrule float within the connector
- Pre-alignment latches on connector housing
- Keyed for proper mating orientation
- Quick termination, no polishing
- Less than 1 minute light cure for epoxy
- Collimated light at optical interface

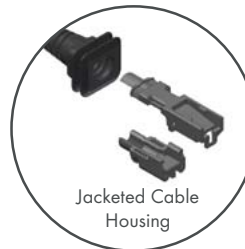
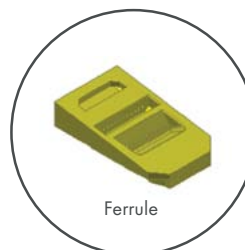
| Part Number | Description |
|-------------|---------------------------------|
| 14012 | PRIZM® LightTurn® Ferrule |
| 12719 | UV Cure Epoxy ¹ |
| 13955 | Thermal Cure Epoxy ² |

¹ Meets controlled environmental specifications

² Meets uncontrolled environmental specifications

| Part Number | Description |
|-------------|---------------------------------------|
| 9771 | PRIZM® LightTurn® Bare Ribbon Housing |

| Part Number | Description |
|-------------|--|
| 13468 | PRIZM® LightTurn® Jacketed Cable Housing |



For additional information about PRIZM® LightTurn® Connectors, please contact Customer Service at 828-323-8883 or visit our web site at www.usconec.com

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