

APPLICATION NOTE

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PHD38999 Fiber Optic Connector
January 2010

The Challenge

Initially developed for High Speed backplane systems for Telecom switching, the PHD terminus and connector system provides a high density package with superior optical signal transmission performance. Customers challenged ITT-ICS to design a cost effective solution for demanding harsh environments with severe shock and vibration effects. Customer requirements dictated the grouping of multiple fiber optic termini in a rugged circular connector profile offering precision alignment and optical performance features.



PHD38999 17/20 plug assembly terminated to single mode LC connectors.

The ITT Solution ...

ITT Interconnect Solutions designed the PHD connector system with precision alignment features to guarantee low loss optical performance. ITT-ICS also designed the PHD terminus and connector system for packaging flexibility, which provides solutions across many mil spec and standard connector envelopes (circular and rectangular). The PHD product family is available as a complete, custom, fiber optic cable assemblies.

Product Features

- Common termini solution across all fiber sizes
- 1.25 mm optical termini w/ ceramic ferrule
- Telecordia GR-326 end face compliant
- High density packaging arrangements
- All metallic M38999 compatible outside dimensions
- All metallic back shell W/sealing grommet
- Removable alignment insert assembly
- Double grommet for extra sealing
- Sizes 20,24, 28, 36 available
- Shielding kit included

Benefit to the Customer

- Cost effective solution for multiple fiber optic packaging scenarios
- True all optical interconnect family
- Suitable for very demanding harsh environment applications

Applications

- Defense Electronics
- Avionics
- Tactical Communications
- Aircraft Systems

For application assistance, please contact:

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