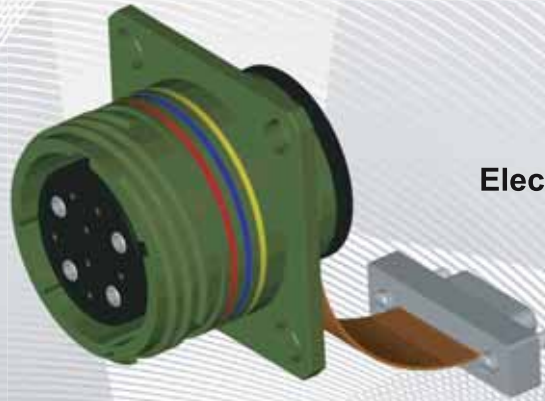


# Mil-Dtl-38999 Fiber Optic Transceivers

## Optical Interface

- Fast Ethernet
- 1xFibre Channel
- Gigabit Ethernet
- 2x Fibre Channel
- Serial FPDP
- 1xInfiniBand



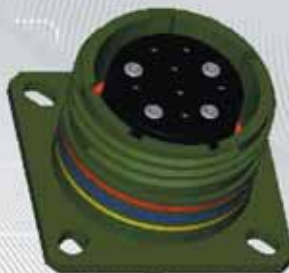
## Electrical Interface

- LVPECL
- CML
- LVDS

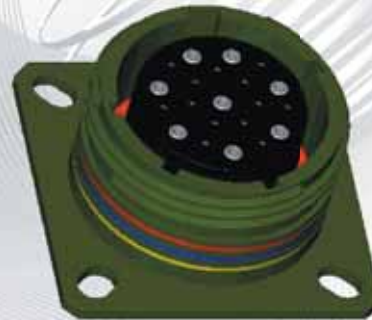
- Improve system performance and reliability by increasing optical link budgets
- Eliminate problematic intra-enclosure fiber optic cables and disconnects
- Enable significant space and weight savings in mobile equipment



Single Port



Dual Port



Quad Port



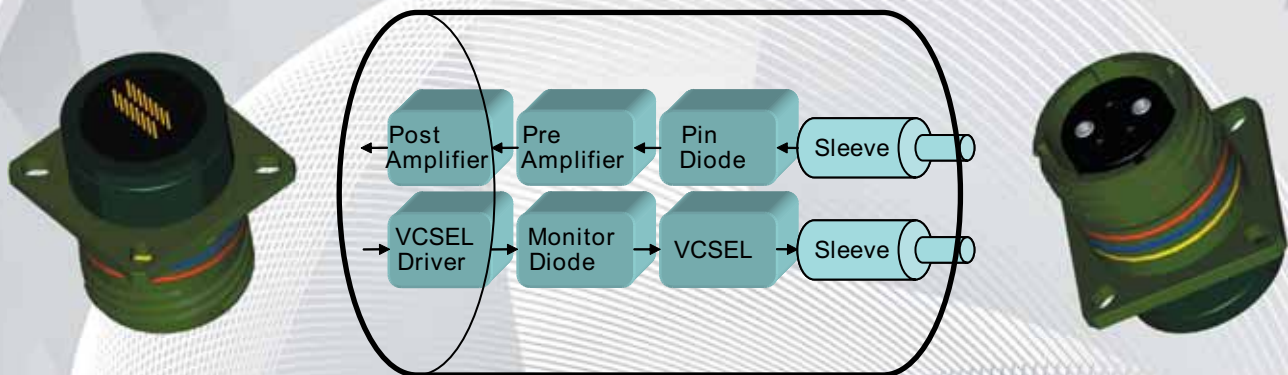
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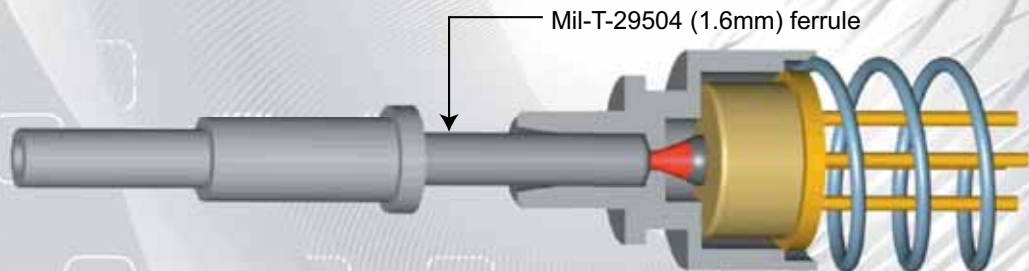
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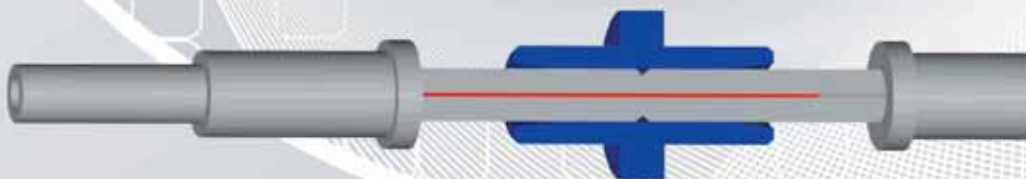
Optical Transceiver Block Diagram



- Integrate electro-optical conversion into a Mil-Dtl-38999 cylindrical shell
- High speed signals remain in the electrical domain inside the system chassis
- Recover up to 3.0dB of optical link budget without increasing power consumption
- Reclaim linecard and backplane real estate from transceivers and fiber disconnects



Protokraft lensed launch / receive fiber coupling eliminates fiber to fiber contact and protects fiber endface from deterioration due to cyclic physical contact



Standard fiber to fiber coupling results in fiber endface damage under vibration

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