

DIAMOND

Fiber Optic Components

CABLE ASSEMBLIES AND ADAPTERS

Diamond has developed the new rugged, reliable, push-pull actuating HE-2000™ harsh environment connector with superior optical and mechanical performance for demanding applications.

Built around the innovative Diamond Multipurpose (DM) insert, the HE-2000™ connector incorporates four (4) termini using Diamond's two-component ferrules, assembled with the company's Active Core Alignment (ACA) process for unparalleled fiber core concentricity. Also available are electrical contacts for hybrid E/O applications.

The optical and electrical termini are protected from dust and water with the unique automatic protection shutter on the plug connector and a manual shutter on the bulkhead receptacle.

The HE-2000™ connector is available for MM, SM (PC/APC) and small-core single mode fiber, polarization-maintaining (PM) fiber, and other specialty fiber types.

Furthermore, Diamond splice-on termini can be field terminated with the Diamond ZEUS D50 HE fusion splicer, allowing for in-service repairs and special installations.

FEATURES AND BENEFITS

- ▶ Automatic protection shutter on the plug connector (manual on the bulkhead receptacle)
- ▶ Harsh-environment resistant plastic shell, nylon with 25% fiber-glass reinforcement
- ▶ IP class: IP67
- ▶ Easy ferrule front-face access for cleaning & inspection
- ▶ Push-pull mechanism for easy mating and handling
- ▶ Mechanical and color coding upon request
- ▶ Electrical pins 20 AWG
- ▶ Easy termini insertion and removal for field termination and repair

CHARACTERISTICS OF DM INSERT

- ▶ Precise and repeatable pre-alignment, thanks to the well dimensioned hollow guide pins
- ▶ Interacting, space saving pre-alignment hollow guide pins
- ▶ Resilient alignment sleeve protected in the hollow pre-alignment guide pins
- ▶ Alignment sleeves individually removable for easy cleaning
- ▶ Full protection of the optical elements from all external influences such as rotational, bending and/or lateral stress
- ▶ Ability for mechanical keying

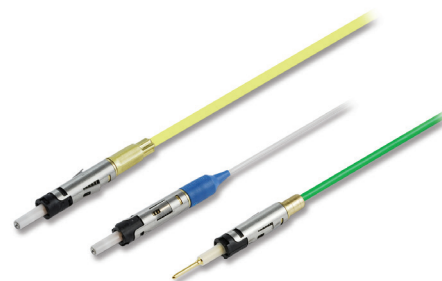
HE-2000™



HE-2000™ plug connector on multi-fiber cable and bulkhead receptacle



Diamond Multipurpose (DM) insert



Optical and electrical termini



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Specifications subject to change without notice

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