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FTTH

Fusion Splice connectors
Field termination F-3000™ LC, E-2000™ and SC connectors based on Crocodile Alberino for quick, easy and reliable installation without epoxy.

ZEUS D50 Fusion Splicer
High quality field termination of 1.25mm/2.5mm connectors and fibers.

Crocodile Splice Unit
For installing or repairing of fibers and cables to existing inside and outside fiber optic installations.

FTTH Sockets
The flush-mount socket enables you to easily splice up to four pigtailed with G.657A fibre. The FTTH wall embedded socket further allows optional RJ45 copper connections for T and T+DSL.

FTTH Box
Comprises an FTTH socket with mounted connector and cable. The cable reel in the box allows the cable to be unwound easily, and makes it easier to pull the cable back from within the dwelling to the cable risers.

FIELD APPLICATIONS

Alberino Solution
Fiber optic connectors E-2000™, F-3000™ LC, FC, SC and ST™ for field termination, suitable for SM, MM applications. PC and APC polished.

F-3000™ LC r and rs
DIAMOND'S ferrule assembly for F-3000™ LC connector is a compact 1.25mm pre-connectorized system, which can be used with blowing technology, offering an easy and reliable solution to perform FTTH installations.

VIM (Video Inspection Microscope)
Compact, portable and lightweight DIAMOND'S field inspection microscope for inspection of all connector types utilizing 2.5 mm or 1.25 mm (PC and APC) ferrules.

DCU (Diamond Cleaver Unit)
Small manual precision fiber cutter for a 0° cut of 125µm fibers with different coatings up to 3.0 mm cables. Offers adjustable cutting length precision and rapidity.

CUSTOMIZING

Customized solutions have to satisfy special customer requirements in terms of environmental conditions, technical/optical performances, high reliability, short time delivery and much more.

Multi-fiber 2.5mm ferrule
Available on E-2000™, LSA (DIN), AVIM, FC, SC, DMI connectors with different number of fibers and shapes.

Linearity Superposition System (LISSY)
Automatic system designed to perform absolute and linearity calibration of optical power meters.

Multi-channel MT based-ferrule
High density connector system with outstanding optical values. Based on DIAMOND MFS Backplane, and expandable up to 960 channels.

1KMS (1000 Channels Measurement Station)
The 1KMS is an extremely flexible, highly precise, and fast 1000 channel programmable optical component measurement system.

MULTIPLE FIBER

MFS
Multiple Fiber System fiber optic connectors EN 186310 and TIA/EIA 604-15 compliant, available in 4-, 8-, and 12 fiber versions, PC and APC finishes, based on MT ferrule type.

Available as:
▶ Connector (simplex)
▶ Backplane (up to 4 plugs)

MPO
Fiber optic connectors IEC 61 754-7 and TIA/EIA 604-5A compliant, available in 4-, 8-, and 12 fiber versions, PC and APC finishes, based on MT ferrule type.

Available as:
▶ Connector (simplex)

Fan-Out
High performance splice free fan-out cable assemblies using 4, 8 and 12 channel ribbon fiber or ribbon cable, including strain relief boots and innovative stackable design.

Applications:
High density channel routing between equipment and racks.

ACCESSORIES

UGT (Optical Transition Adapter)
In line adapters for transition from PC to APC or from APC to PC. Ideal solution for space-saving transition.

Terminators
Terminator performs permanent low Return Loss, and long working life. It is a protection for open connections.

In line attenuators
Used to adapt the transmitted light power to the characteristics of the implanted receiver.

ORM (Optical Reflective Modules)
Used as a fiber termination with the highest possible back reflection.

Hybrid adapters
Are used to directly mate different connectors standards. An ideal space saving alternative to hybrid patch assemblies.

MAS (Multipurpose Adapter System)
Modular interchangeable adapters based on 2.5mm ferrule for test and measurement equipment.

HARSH ENVIRONMENT

F-3000™ CRB
1 to 4 channels connector system based on F-3000™ SFF simplex and duplex connectors and adapters, using VG 95234 compliant housings.

E-2000™ RHA
Connector system which provides up to 4 fiber optic terminations on most types of HCS, MM and SM fibers.

E-2000™ RHB
Rugged connector system, which provides up to 24 fiber optic terminations for fiber counts from 6 to 24 (in 6 fiber increments).

X-BEAM
Up to 4 channels connector system based on the Expanded Beam Technology using an optical system composed of lenses. An ideal choice for tactical applications.

ALBERINO CRA
Dense, multi-channel design supporting up to 12 fiber terminations, based on the use of Diamond's "Alberino" termini, which enables easy installation and maintenance.





E-2000™

Fiber optic connectors IEC 61 754-15, EN 86 275-801/-802 and TIA/EIA 604-16 Normcompliant, integrated high security and handling characteristics. For single mode and multimode applications PC and APC polished.

- Available as:**
- ▶ Connector (simplex)
 - ▶ Simplex E-2000™ LED
 - ▶ Duplex Compact
 - ▶ Duplex
 - ▶ Low Profile
 - ▶ Backplane (2 - 6 channels)
 - ▶ Fusion
 - ▶ IP 65

Applications: Telecommunications, CATV, LAN, MAN, WAN, Test and Measurement, Medical, Sensors, Industry.



F-3000™ LC

Fiber optic connector of the SFF (Small Form Factor) family, IEC 61 754-20 and TIA/EIA 604-10-A compliant, with integrated security and handling characteristics LC compatible. For single mode and multimode applications, PC and APC polished.

- Available as:**
- ▶ Connector (simplex)
 - ▶ Duplex
 - ▶ Backplane (2 - 4 channels)
 - ▶ Fusion

Applications: CATV, LAN, Telecommunications Networks, Data Processing Networks Fiber-to-the-X (FTTC, FTTH, FTTD).



Power Solutions

Fiber optic connector with integrated expanded beam technology, allowing high power light transmission up to 3W. A section of graded index fiber is introduced as a collimating lens, which enlarges the beam diameter and reduces power density at the connector interface. For single mode applications APC (4°) polished.

- Available as:**
- ▶ E-2000™ / F-3000™ LC connector (simplex)
 - ▶ E-2000™ / F-3000™ LC Backplane
 - ▶ Other types upon request

Applications: Telecommunications Networks, high bit rates and long transmission distances, DWDM Systems, Amplifier technology. Harsh environments.



SC

Fiber optic connectors IEC 61 754-4 and TIA/EIA 604-3-A compliant for single mode and multimode applications, PC and APC polished.

- Available as:**
- ▶ Connector (simplex)
 - ▶ Duplex
 - ▶ Fusion

Applications: Telecommunications, CATV, LAN, MAN, WAN, Test and Measurement, Medical, Sensors, Industry.



MU

Fiber optic connectors of the SFF (Small Form Factor) family IEC 61 754-6 and TIA/EIA 604-17 compliant, incorporating the positive mechanical and optical performance features of the SC style connector in a high density design. Available for both single mode (PC or APC) and multimode applications.

- Available as:**
- ▶ Connector (simplex)
 - ▶ Duplex

Applications: Fiber optic subscriber Network transmission, switching equipment, Optical MDF (Multi Distribution Frames), CATV, LAN, test equipment.



DMI

Diamond Micro Interface is a setup of two 2.5 mm ferrules mated with the help of a special clip, aiming to maintain the smallest possible dimension. DMI is designed to operate with multimode and single mode fibers, 0° PC as well as 8° APC polished.

- Available as:**
- ▶ Connector

Applications: Integration within Printed Circuit Board (PCB), High quality interface between active and passive components.

Special version: The Mini-AVIM is a small and light connector suitable for harsh environment, especially space applications. Mini-AVIM combines two leading edge technologies: the AVIM MIL-style ratchet system and the DMI base construction.



FC

Fiber optic connectors IEC 61 754-13 and CECC 86 120 compliant for single mode and multimode applications, PC and APC polished.

- Available as:**
- ▶ Connector standard and JDS version

Applications: Telecommunications, CATV, LAN, MAN, WAN, Test and Measurement, Medical, Sensors, Industry.



LSA (DIN)

Fiber optic connectors CECC 86 135-801 and CECC 86 135-802 compliant for single mode and multimode applications, PC and APC polished.

- Available as:**
- ▶ Connector LSA (DIN)
 - ▶ Integrated electrical/optical backplane connector (LSD)

Applications: Telecommunications, CATV, LAN, MAN, WAN, Test and Measurement, Medical, Sensors, Industry.

Special version: AVIM connector offers high optical performance in applications such as dynamic environments of mobile platforms, avionics and space flight. AVIM is 100% compatible with LSA (DIN) standard.



ST™

ST-compatible fiber optic connectors IEC 61 754-2, (BFOC/2.5) and CECC 86 120 compliant for single mode and multimode applications, PC polished.

- Available as:**
- ▶ Connector

Applications: Telecommunications, CATV, LAN, MAN, WAN, Test and Measurement, Medical, Industry

ST is a registered trademark of AT&T



FSMA

Fiber optic connectors CECC 86 104-801 compliant for multimode applications.

- Available as:**
- ▶ Connector (simplex with ø 3.175 mm metal ferrule) flat polished.

Applications: Telecommunications, CATV, LAN, MAN, WAN, Medical, Sensors, Industry.



MT-RJ

Fiber optic connectors of the SFF (Small Form Factor) family) with mini Mferrules IEC 61 754-18, ISO/IEC 11801, TIA/EIA-604-12 and EN 50 377-9-1/-2 compliant. Plug and Pull Design with well known RJ-style latch. For single mode and multimode applications, PC polished.

- Available as:**
- ▶ Connector (duplex)

Applications: LAN (FTTX) including (FTTC, FTTH, FTTD), 10 - 100Mb Ethernet up to Gigabit solutions.



PM Terminations

High performance PM terminations for pigtailed and patchcords as well as directly to both passive and active optical devices. Standard assemblies are made with Panda PM fiber and are available in both PC and APC finishes.

- Available as:**
- ▶ Connector E-2000™ (simplex)
 - ▶ Connector LSA (DIN)
 - ▶ Connector FC
 - ▶ Connector SC (simplex)
 - ▶ Connector DMI
 - ▶ AVIM
 - ▶ Mini-AVIM

Applications: Measurement Instrumentation, Mechanical & Thermal Sensors, Medical Devices, High Bandwidth Transmission.