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Proximion Introduces Customizable Dispersion Compensation Module

Slope compensator offers a tailored dispersion slope combined with a low loss for submarine and ultra long-haul network deployments to improve performance

San Diego, CA – March 24, 2009 – [Proximion Fiber Systems AB](#), a world-class provider of Fiber Bragg Grating (FBG) based [Dispersion Compensation Modules](#) (DCMs), announced today the residual [dispersion slope compensator](#) (DCM-SLC), the newest member of its continuous band dispersion compensation product line. The DCM-SLC provides tailored dispersion characteristics over the C-band, with a low loss and a small form factor. Best suited for submarine and ultra long-haul applications, the DCM-SLC can be tailored for each network deployment.

As a single device, the DCM-SLC can carry a steep dispersion slope going from positive to negative across the wavelength band. It can eliminate residual dispersion over the entire C-band rather than needing separate compensators for each channel. Deploying the DCM-SLC also reduces the number of needed amplifiers and required space, resulting in savings for the network supplier.

In ultra long haul applications, such as submarine links, where fiber mixing is the typical method of choice for dispersion management, aggregated dispersion becomes a problem. The aggregated residual dispersion across the C-band for such links may range from largely negative dispersion on the short wavelength side to largely positive for the long wavelength side. The DCM-SLC is therefore, in most cases, physically located at the terminal nodes, in where the wavelength dependent residual dispersion is at its peak and compensates the transmitting and receiving nodes.

“As data rates continue to rise, the accuracy of dispersion compensation also increases,” explained Karen Liu of Ovum. “Proximion’s fiber bragg grating technology introduces wavelength specific time delays, which reduces loss while offering a cost-effective solution.”

“As providers upgrade older, non-flattened submarine links, designed for lower bit rates they seek to find cost effective solutions to overcome the problems associated with residual dispersion,” said Stefan Ekman, CEO of Proximion. “By choosing Proximion’s DCM-SLC, customers eliminate the need to add costly and space consuming equipment like amplifiers and DCFs at the terminal sites. Of course this is the natural solution when designing new systems.”

Proximion will showcase the DCM-SLC at this year’s OFC/NFOEC conference in San Diego, March 24-26, in booth 3222.

About Proximion Fiber Systems AB



PROXIMION

Proximion Fiber Systems AB is a world-class provider of optical modules and sub-systems based on Fiber Bragg Grating (FBG) technology. By combining these unique optical devices with the truly innovative skills of our team, Proximion contributes to our customers' and partners' success in a variety of markets.

The founding team of Proximion has pioneered design, manufacturing, and application of advanced FBGs. Proximion's unique and patented method enables manufacturing of FBGs with virtually any filter characteristics. Proximion is a privately held company headquartered in Kista, Sweden.

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