

Dispersion Compensator



When data are transmitted over fiber optic cable the effects of dispersion will lead to an undesired broadening of signals. This pulse spreading is caused by the different time (delay) it takes the spectral pulse components to travel down the fiber and results in a reduction of the transmission distance. The only way to counter this effect is to employ dispersion compensators which are installed upstream or downstream of the optical amplifiers and repeaters and compensate dispersion behavior.

Lambdacomp is a purely passive component compensating the skew of the different wavelengths. Lambdacomp is available for dispersion compensation in fibers of 20km to 100km lengths. Compensation is performed in a protocol transparent way.

Technical Data

- Compensation level: 20–100 km
- Channel spacing: 50GHz
- Operation BW: > 60GHz
- Insertion loss: <3.0 dB
- Latency: < 25 ns
- Operating temperature: -5 °–70 °C
- Dimensions: 1U, 19"
- Connectors: LC/APC (E2000 on request)

Ordering Options

1 Fiber (unidirectional), DWDM		2 Fibers (bidirectional), DWDM	
LC-20-1-D	Lambdacomp, dispersion compensation 20 km, DWDM	LC-20-2-D	Lambdacomp, dispersion compensation 20 km, DWDM
LC-40-1-D	Lambdacomp, dispersion compensation 40 km, DWDM	LC-40-2-D	Lambdacomp, dispersion compensation 40 km, DWDM
LC-60-1-D	Lambdacomp, dispersion compensation 60 km, DWDM	LC-60-2-D	Lambdacomp, dispersion compensation 60 km, DWDM
LC-80-1-D	Lambdacomp, dispersion compensation 80 km, DWDM	LC-80-2-D	Lambdacomp, dispersion compensation 80 km, DWDM
LC-100-1-D	Lambdacomp, dispersion compensation 100 km, DWDM	LC-100-2-D	Lambdacomp, dispersion compensation 100 km, DWDM

