

100km Dispersion Compensation Fiber

The DCM dispersion compensator launched by Guangzhou Sintai Communication Co., Ltd. is a pure passive device. It can compensate the dispersion slope of standard single-mode optical fiber (G.652) in C-band. And it is used to repair the optical signal distorted by dispersion and compensate the damaged signal in optical transmission system, so as to improve the performance of the transmission system and achieve high-speed, large-capacity, long-distance communication. The dispersion range of the DCM can reach -10 to -2100ps/nm at 1550nm wavelength. And products with special requirements for central wavelength and dispersion can be also provided.

Product Feature

- 100% slope compensation of G.652 optical fiber in C-band
- Low insertion loss
- Low polarization mode dispersion
- Wide band Dispersion Compensation for DWDM System
- Packaging and interface types can be customized
- Comply with Telcordia GR-2854-CORE standard
- Conform to RoHS-6 (lead free)

Application Scenario

- SDH high speed optical transmission system
- DWDM optical transmission system

G.652 Standard single-mode optical fiber long-distance and metropolitan area communication system

Product Specification

Item	Petemeter					
	20Km	40Km	60Km	80Km	100Km	120Km
Equivalent G.652 compensation length	20Km	40Km	60Km	80Km	100Km	120Km
1545nm wavelength dispersion (ps/nm)	-340±20	-670±30	-1000±40	-1340±50	-1670±60	-2040±60
1545nm relative dispersion slope (nm ⁻¹)	0.004±20%					
Insertion loss (dB)	≤3.5	≤5.0	≤6.8	≤8.7	≤10.7	≤12.9
Polarization mode dispersion (ps)	≤0.5	≤0.8	≤1.0	≤1.2	≤1.3	≤1.4
Polarization dependent loss (ps)	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
Optical reflection (dB)	-27					

Maximum permissible input power (dBm)	+23
Working temperature range	-5°C~70°C
Storage temperature range	-40°C~85°C
Environmental/Reliability Testing	Conform to Telcordia GR-2854 and GR1221standard
Interface type	LC/PC or to be customized
Packaging	Pluggable chassis: 1U, (D)220mm×(W)442mm×(H)44mm Rack mount: 1U, (D)220mm×(W)442mm×(H)44mm

