

Dispersion Compensating Fiber (DCF)

Description

Opneti dispersion compensating fibre is specially developed through proprietary PCVD-based technology. Taking advantages of PCVD process, Opneti is able to manufacture complex index-profile shapes accurately, therefore, to get the optimized products with the best compromise between insertion loss and residual dispersion over the compensated operating wavelength. Customized fibres with special center wavelength and dispersion are available.

Characteristics

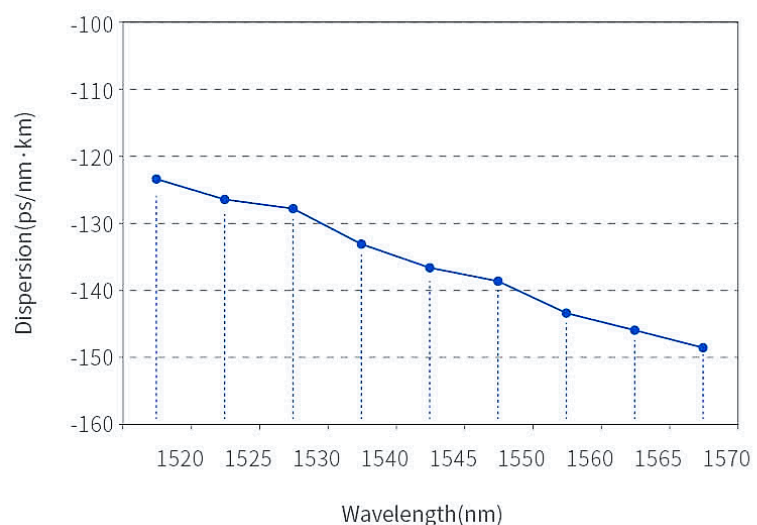
- Broad band dispersion compensating of DWDM network and extremely low residual dispersion
- 80%-120% slope compensation in C/L band
- Low insertion loss and high negative dispersion coefficient
- High figure of merit(FOM)
- LOW PMD
- Customized encapsulation type, dimension, connector type and jumper length
- Excellent splicing characteristics, spliced by one time discharge



Specifications

Part No.	DCF1010-D	DCF1012-A	DCF1012-D	DCF1011-A	DCF1013-A
Operating Wavelength	1525~1565				
MFD [μm]	5.0±1.0@1550nm			4.5±1.0@1550nm	5.0±1.0@1550nm
1525~1565nm Attenuation [dB/km]	≤0.62			≤1.4	≤0.6
1545nm Dispersion Coefficient [ps/(nm·km)]	-100 to -250	-100 to -200		-160 to -360	≤-160
1545nm Relative Dispersion Slope(nm ⁻¹)	0.00309-0.00410			0.0176-0.0264	0.00309-0.00410
Cladding Diameter [μm]	87.0±4.0	120.0±10.0		110.0±10.0	120.0±10.0
Coating Diameter [μm]	170.0±10.0	245.0±10.0	175.0±15.0	245.0±10.0	175.0±15.0
Cladding Non-circularity [%]	≤1.0				
Core/Cladding.Concentricity Error [μm]	≤1.0				
Coating Type	Dual-layer UV-acrylate				

G.652 DCF Dispersion Curve



Products

Standard Products:

- DCF for G.652 C band (Part NO.DCF1012-A)
- DCF for G.652 C band with reduced cladding (Part NO. DCF1010-D)
- DCF for G.655 C band (Part NO. DCF1011-A)
- DCF for CATV and high FOM (Part NO. DCF1013-A)