

Dispersion Compensating Fibre (DCF)

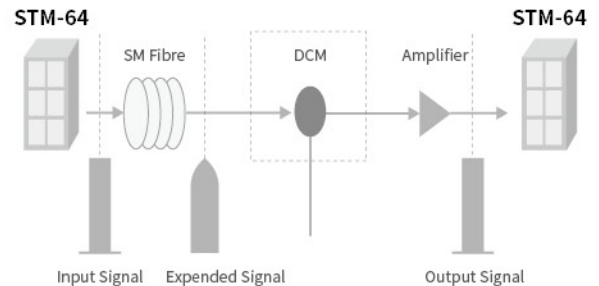


YOFC dispersion compensating fibre is specially developed through proprietary PCVD-based technology. Taking advantages of PCVD process, YOFC is able to manufacture complex index-profile shapes accurately, therefore, to get the optimized products with the best compromise between insertion loss and residual 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



Applications

- Single mode fibre backbone and metropolitan area networks based on recommendation G.652
- DWDM networks
- SDH network
- CATV
- Dispersion adjustment

Products

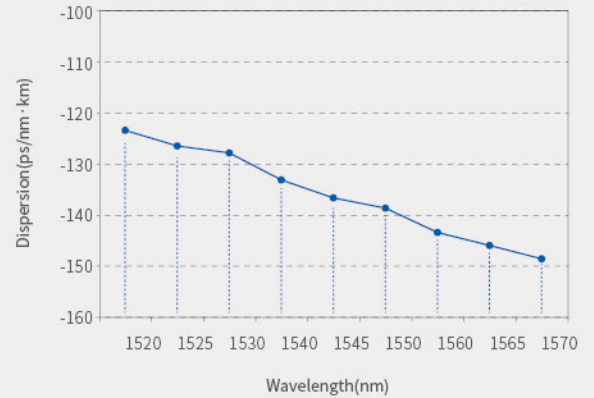
Standard Products:

- DCF for G.652 C band (Part NO. DM1012-A)
- DCF for G.652 C band (Part NO. DM1010-E)
- DCF for G.655 C band (Part NO. DM1011-A)
- DCF for CATV and high FOM (Part No.DM1013-A)

Products available:

- Customized DCFs

G.652 DCF Dispersion Curve



Specifications

| Fibre Type | BD NDCF-G.652C/250 | BD SND CF-G.652C/170 | DCF-G.655C/250 | SDCF-G.652C/170LD |
|--|------------------------|------------------------|------------------------|------------------------|
| Part No. | DM1012-A | DM1012-D | DM1011-A | DM1013-A |
| Optical Properties | | | | |
| Operating Wavelength (nm) | 1525 - 1565 | 1525 - 1565 | 1525 - 1565 | 1525 - 1565 |
| MFD (μm) | 5.0 ± 1.0@1550nm | 5.0 ± 1.0@1550nm | 4.5 ± 1.0@1550nm | 5.0 ± 1.0@1550nm |
| 1525~1565nm Attenuation (dB/km) | ≤0.62 | ≤ 0.62 | ≤ 1.4 | ≤ 0.6 |
| 1545nm Dispersion Coefficient (ps/nm·km) | -100 to -200 | -100 to -200 | -160 to -360 | ≤ -160 |
| 1545nm Relative Dispersion Slope (nm ⁻¹) | 0.00288 - 0.00432 | 0.00288 - 0.00432 | 0.0176 - 0.0264 | 0.0028 - 0.0044 |
| Geometrical Properties | | | | |
| Cladding Diameter (μm) | 120.0 ± 10.0 | 120.0 ± 10.0 | 110.0 ± 10.0 | 120.0 ± 10.0 |
| Coating Diameter (μm) | 245.0 ± 10.0 | 175.0 ± 15.0 | 245.0 ± 10.0 | 175 ± 15 |
| Cladding Non-circularity (%) | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 |
| Core/Cladding Concentricity (μm) | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 |
| Coating Type | Dual-layer UV-acrylate | Dual-layer UV-acrylate | Dual-layer UV-acrylate | Dual-layer UV-acrylate |

www.yofc.com



This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information.