

# Dispersion Compensating Fibre (DCF)

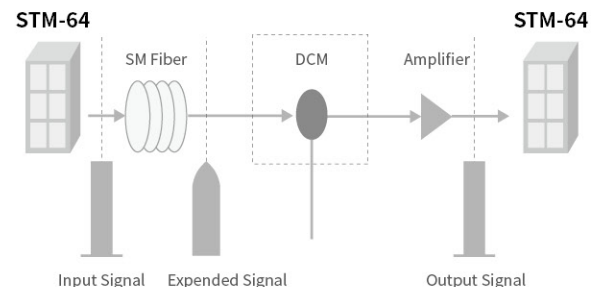


YOFC dispersion compensating fibre is specially developed through proprietary PCVD-based technology. Taking advantages of PCVD process, YOFC is able to manufacture complex index-profile shapes accurately, therefore, to get the optimized products with the best compromise between insertion loss and residual dispersion over the compensated working 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
- Performances meet the criterion Telcordia GR-2854-core
- Reliability meets the criterion Telcordia GR-1221-core
- Customized encapsulation type, dimension, connector type and jumper length
- Good splicing characteristics, spliced by one discharge



## Application

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

## Products

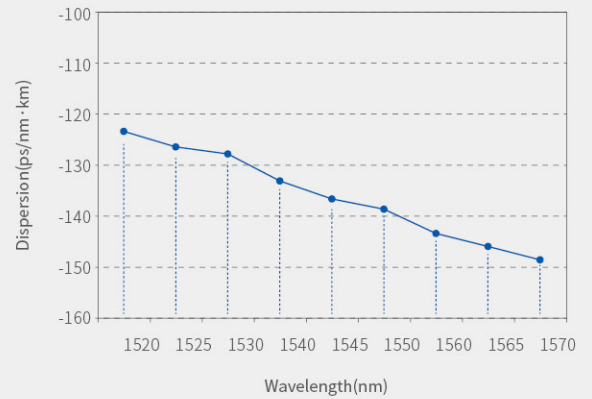
### Standard Products:

- DCF for G.652 C band (Part NO. DM1010-D)
- 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:

- DCF for G.656 fibre
- Customized DCFs

G.652 DCF Dispersion Curve



## Specifications

Fibre Type	NDCF-G.652C/250	SNDCF-G.652C/170	DCF-G.655C/250	SDCF-G.652C/170LD
Part No.	DM1010-D	DM1010-E	DM1011-A	DM1013-A
Optical Properties				
Operating Wavelength (nm)	1525~1565	1525~1565	1525~1565	1525~1565
MFD (μm)	5.0±1	5.0±1	4.5±1	5.0±1
1525~1565nm Attenuation (dB/km)	≤ 0.55	≤ 0.55	≤ 1.4	≤ 0.6
1545nm Dispersion Coefficient (ps/nm·km)	-100~-170	-100~-170	-160~-360	≤ -160
1545nm Relative Dispersion Slope (nm <sup>-1</sup> )	0.00288~0.00432	0.00288~0.00432	0.0176~0.0264	0.0028~0.0044
Geometrical Properties				
Cladding Diameter (μm)	120 ± 10	120 ± 10	110 ± 10	120 ± 10
Coating Diameter (μm)	245 ± 10	175 ± 15	245 ± 10	175 ± 15
Cladding Non-circularity (%)	≤1	≤1	≤1	≤1
Core/Cladding Concentricity Error (%)	≤1	≤1	≤1	≤1
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