YOFC
Smart Link Better Life.

Diameter-reduced Fibre

Product

With the rapid development of fibre-to-the-home and data centers, as pipeline resources are becoming scarce, it is urgent to increase the density of optical fibres and lay in limited space the optical cables that contain more fibre cores. By reducing the thickness of the outer cladding and coating of fibres while keeping the diameter of fibre core unchanged, YOFC is able to make optical fibres with small outer diameters.

YOFC's diameter-reduced fibre can be customized in terms of MFD, cut-off wavelength, outer diameter, and cladding diameter in accordance with customer requirements. Its cross sectional area can reach only 50% of that of conventional fibre or even less, as a result of which the density of optical cable may significantly increase. It is suitable for high-density, small OD optical cables and the optical devices with narrow internal space and small fibre bend radius.

Applications

- High-density, small OD optical cable
- Small optical device

Features

- Optical parameters compatible with conventional single-mode fibre
- Much smaller than conventional single-mode fibre
- Customizable cross-section and size

Yangtze Optical Fibre and Cable Joint Stock Limited Company

Stock Code: 601869.SH 06869.HK **ADD:** No. 9 Optics Valley Avenue, Wuhan, Hubei, China (P.C.: 430073)

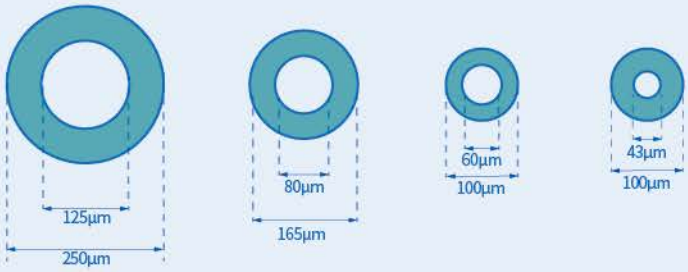
Tel: 400-006-6869 **Email:** 400@yofc.com en.yofc.com

Specifications

Parameter	Range	Typical Value
Fibre Cut-off Wavelength(nm)	–	Customized on Demand
MFD(μm)	–	Customized on Demand
Cladding Diameter(μm)	40 - 125	Customized on Demand
Fibre Diameter(μm)	100 - 200	Customized on Demand
1310nm Attenuation(dB/km)	≤ 0.4	–
1550nm Attenuation(dB/km)	≤ 0.5	–
Zero Dispersion Wavelength(nm)	1300 - 1324	1320
Dispersion Slope(ps/(nm^{2}km))	< 0.11	0.092
Macrobend(dm)	–	Customized On Demand
Proof Test Level(Kpsi)	100	100-200
Dynamic Fatigue Parameter (n_d)	> 20	22

Cross section

Comparison of end-face size of diameter-reduced fibre (80/165μm fibre, 60/100μm fibre and 43/100μm fibre) with that of standard fibre



Customization

Connector

Technical support for diameter-reduced fibre splicing is available.

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