

Crystal Fibre Ytterbium Double Clad Fiber Range

	DC-70/11-PM-Yb	DC-135/15-PM-Yb	DC-150/30-PM-Yb	DC-200/40-PZ-Yb	DC-200/70-PM-Yb-ROD	DC-200/85-Yb-ROD	DC-285/100-PM-Yb-ROD
Core size	11 ± 1 μm	15 ± 1 μm	30 ± 2 μm	40 ± 2 μm	70 ± 5 μm	85 ± 5 μm	100 ± 5 μm
Pump clad. diameter	70 ± 3 μm	135 ± 5 μm	150 ± 5 μm	200 ± 5 μm	200 ± 5 μm	200 ± 5 μm	285 ± 10 μm
Pump clad. geometry	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Cladding diameter	170 ± 5 μm	280 ± 10 μm	330 ± 20 μm	450 ± 20 μm	1700 ± 100 μm	1700 ± 100 μm	1700 ± 100 μm
Coating diameter	300 ± 20 μm	345 ± 20 μm	440 ± 30 μm	620 ± 30 μm	NA	NA	NA
Coating material	HT acrylate	HT acrylate	HT acrylate	HT acrylate	None	None	None
Mode properties	Single mode	Single mode	Single mode	Single mode	Single mode	Single mode	Single mode
MFD	12 ± 1 μm	16 ± 1 μm	22 ± 1.5 μm	29 ± 2 μm	55 ± 5 μm	65 ± 5 μm	76 ± 5 μm
Core NA @ 1 μm	0.08 ± 0.005	0.055 ± 0.01	~0.04	~0.03	~0.02	~0.02	~0.02
Fiber format	Flexible	Flexible	Flexible	Flexible	ROD	ROD	ROD
Min bending diameter	10 cm	15 cm	20 cm	30 cm	NA	NA	NA
Pump abs. @ 976 nm	~ 12 dB/m	~8 dB/m	~10 dB/m	~10 dB/m	~ 30 dB/m	~ 30 dB/m	~ 30 dB/m
Pump abs. @ 915 nm	~ 4 dB/m	2.8 dB/m	~3 dB/m	~3 dB/m	~ 10 dB/m	~ 10 dB/m	~ 10 dB/m
Pump NA @ 950 nm	0.63 ± 0.03	0.6 ± 0.05	0.6 ± 0.05	0.55 ± 0.05	0.6 ± 0.05	0.54 ± 0.05	0.6 ± 0.05
PER db	> 17 dB	> 18 dB	> 15 dB	> 15 dB	> 15-25 dB	Non-PM	> 15-25 dB
Birefringence	> 1.0·10 ⁻⁴	1.3·10 ⁻⁴	> 1.0·10 ⁻⁴	> 1·10 ⁻⁴	> 1·10 ⁻⁴	Non-PM	> 1·10 ⁻⁴

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