

Radiation Hardened Double Clad Erbium Ytterbium Co-Doped optical fibers

Type 1:

Quantity : 150metres

Specification

	Parameter	Specifications
1.	Core diameter	$12 \pm 1 \mu\text{m}$
2.	Cladding diameter	$125 \pm 3 \mu\text{m}$
3.	Cladding shape	Round
4.	Coating diameter	$210 \pm 15 \mu\text{m}$
5.	Core NA	0.19 ± 0.02
6.	Cladding NA	≥ 0.46
7.	Clad absorption @915nm	$2.6 \pm 0.6 \text{ dB/m}$
8.	Clad absorption @976nm	$10.4 \pm 2.4 \text{ dB/m}$
9.	Core absorption @1536nm	$50 \pm 10 \text{ dB/m}$
10.	Multimode background losses	$< 50 \text{ dB/km}$
11.	Core-clad offset	$< 1.0 \mu\text{m}$
12.	Proof test level	$\geq 100 \text{ kpsi}$
13.	Radiation induced gain variation	$< 0.02 \text{ dB/krad}$
14.	Birefringence	$> 1 \times 10^{-4}$
15.	Fiber type	Polarisation maintaining PANDA
16.	Doping	Erbium Ytterbium doped
17.	Operating temperature	-20°C to $+60^\circ\text{C}$
18.	Storage Temperature	-40°C to $+85^\circ\text{C}$

Type 2: Passive Matched Fiber, Quantity: 300metres

	Parameter	Specification
1.	Core diameter	$12 \pm 1 \mu\text{m}$
2.	Core NA	0.17 ± 0.02
3.	Cladding diameter	$125 \pm 3 \mu\text{m}$
4.	Coating diameter	$245 \pm 15 \mu\text{m}$
5.	Fiber type	Polarisation maintaining Double Clad
6.	The passive fiber should match with the active doped fiber	

Accessories

1. Fiber Stripping tool: Quantity: 10No:s

Adjustable stripping tool to adapt any clad diameter

While supplying the items,

1. Provide CoC and datasheet
2. Test data comprising of specifications mentioned in the table