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भारतीय विज्ञान संस्थान

Corrigendum – Domestic tender for the procurement of Highly Nonlinear Optical fiber (HNLF)

Corrigendum date: 09-04-2024

In addition to the fiber types mentioned in the above tender, the following fiber is also added to the requirements.

PM Raman Fiber

1. Cladding Diameter 125 ± 1.0 µm
2. Coating Diameter 245 ± 5 µm
3. Clad non-circularity < 2%
4. Core Eccentricity < 0.6 µm.
5. Cutoff Wavelength < 1050nm
6. Effective Area @ 1450nm: 16.1 ± 1.5 μm^2
7. Effective Area @ 1550nm: 18.7 ± 1.5 μm^2
8. Attenuation @ 1450nm: (Maximum) 0.58 dB/km
9. Attenuation @ 1550nm: (Maximum) 0.45 dB/km
10. Attenuation @ 1450nm: (Typical) 0.54 dB/km
11. Attenuation @ 1550nm (Typical) 0.42 dB/km
12. Dispersion @ 1550nm: -20 ps/(nm·km)
13. Dispersion Slope @ 1550 nm: 0.02 ps/(nm2·km)
14. Raman Gain Efficiency @ 1551nm: 2.5 $(W \cdot km)^{-1}$
15. Extinction Ratio (L=100 m) > 30 dB
16. Peak Raman Gain Efficiency (Typical): 2.5 $(W \cdot km)^{-1}$ using a Depolarized Pump at 1453 nm.
17. Birefringence (Typical): 2.8 x 10-4
18. Length: 200m

Regards,
Balaswamy Velpula

V. Balaswamy.
09/04/2024

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