Optical specifications

Parameter	FiberHome	Hengtong	ZTT
Attenuation @ 1310 nm (dB/km)	≤0.35	≤0.35	≤0.35
Attenuation @ 1383 nm (dB/km)	≤0.35	≤0.35	≤0.35
Attenuation @ 1550 nm (dB/km)	≤0.21	≤0.21	≤0.21
Attenuation @ 1625 nm (dB/km)	≤0.24	≤0.23	≤0.23
Zero-dispersion wavelength (nm)	1300–1324	1300–1324	1300–1324
Zero-dispersion slope (ps/nm²·km)	≤0.092	≤0.092	≤0.092
Cable cutoff wavelength (nm)	≤1260	≤1260	≤1260
Mode field diameter @ 1310 nm (μm)	8.6 ± 0.4	8.6 ± 0.4	8.6 ± 0.4

Macrobending specifications

Test Condition	FiberHome	Hengtong	ZTT
Ø30 mm, 10 turns @ 1550 nm (dB)	≤0.03	≤0.03	≤0.03
Ø30 mm, 10 turns @ 1625 nm (dB)	≤0.10	≤0.10	≤0.10
Ø20 mm, 1 turn @ 1550 nm (dB)	≤0.10	≤0.10	≤0.10
Ø20 mm, 1 turn @ 1625 nm (dB)	≤0.20	≤0.20	≤0.20
Ø15 mm, 1 turn @ 1550 nm (dB)	≤0.50	≤0.40	≤0.50
Ø15 mm, 1 turn @ 1625 nm (dB)	≤1.00	≤0.80	≤1.00

Geometrical specifications

Parameter	FiberHome	Hengtong	ZTT
Cladding diameter (μm)	125 ± 0.7	125 ± 0.7	125 ± 0.7
Cladding non-circularity (%)	≤0.7	≤0.8	≤1.0
Coating diameter (μm)	245 ± 10	245 ± 10	245 ± 7
Core/cladding concentricity error (μm)	≤0.50	≤0.50	≤0.54
Coating/cladding concentricity error (μm)	≤12	≤12.5	≤12
Fiber curl radius (m)	≥4	≥4	≥4

Mechanical specifications

Parameter	FiberHome	Hengtong	ZTT
Proof test (as reported)	≥0.69 GPa	0.69 GPa	≥1.05%
Dynamic fatigue parameter (Nd)	≥18	≥20	≥22
Peak coating strip force (N)	1.0–8.9	1.3–8.9	1.3–8.9

Environmental specifications

Parameter	FiberHome	Hengtong	ZTT
Temperature cycling, -60°C to +85°C (dB/km)	≤0.05	≤0.05	≤0.05
Water immersion, 23°C, 30 days (dB/km)	≤0.05	≤0.05	≤0.05
Damp heat, 85°C / 85% RH, 30 days (dB/km)	≤0.05	≤0.05	≤0.05
Dry heat aging, 85°C, 30 days (dB/km)	≤0.05	≤0.05	≤0.05