

Singlemode NZDSF

Fibre type	G.655.D
OPK code	655
Core	Germanium doped Silica
Cladding	Pure Silica
Coating	Dual layers of UV-cured acrylate
Optical Characteristics	
Attenuation coefficient Loose tube Cables (Typical / Maximum) (1,2)	
@1550 nm	0.23 / 0.4 dB/km
@1625 nm	0.26 / 0.4 dB/km
Attenuation coefficient Tight Buffered Cables (Typical / Maximum) (1,2)	
@1550 nm	0.26 / 0.4 dB/km
@1625 nm	0.31 / 0.4 dB/km
Attenuation discontinuity (2)	≤ 0.1 dB
Cable cut-off wavelength	≤ 1450 nm
Chromatic dispersion at 1460 ~ 1550 nm	-4.2 – 6,2 ps/(nm·km)
Chromatic dispersion at 1550 ~ 1625 nm	2.8–11.2 ps/(nm·km)
Chromatic dispersion at 1530 nm	2.0–5.5 ps/(nm·km)
Chromatic dispersion at 1565 nm	4.5–6.0 ps/(nm·km)
Maximum individual fiber PMD	≤ 0.15 ps/√km
Fiber PMD link value	≤ 0.1 ps/√km
Geometrical Characteristics	
Mode field diameter @1550 nm	9.6 ± 0.4 μm
Core/Cladding concentricity error	≤ 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	≤ 0.7 %
Primary coating diameter (uncoloured fibre)	242 ± 5 μm
Primary coating diameter (coloured fibre)	250 ± 10 μm
Fibre curl radius	≥ 4.0 m
Coating-Cladding concentricity	≤ 12 μm
Macrobending loss	
100 turns, mandrel radius 30 mm @1550 nm	≤ 0.05 dB
100 turns, mandrel radius 30 mm @1625 nm	≤ 0.05 dB
1 turn, mandrel radius 16 mm @1550 nm	≤ 0.5 dB
1 turn, mandrel radius 16 mm @1625 nm	≤ 0.5 dB
Mechanical Characteristics	
Proof test level	≥ 100 kpsi (1.0% strain)
Coating strip force	1.3 ~ 8.9 N
Dynamic fatigue resistance parameter	≥ 20

(1) Unless stated otherwise directly in the cable specification

(2) Cabled fibre

- Typical attenuation is the value measured for at least 90% of the fibers in the cable.
- OTDR measurement values can only be guaranteed for cable lengths of 1000 m and more.
- Cable on the reel may show a discontinuity of the OTDR curve caused by winding of the cable on the reel.
- The above values apply, unless otherwise stated directly in the cable specification