

## Non-Zero Dispersion Shifted Single Mode Fiber G.655.D

### Specifications:

**Fiber type** G.655.D  
**OPK code** 655

### Rev. 012-21/41

Fiber 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)

@1550 nm 0.23 / 0.4 dB/km

@1625 nm 0.26 / 0.4 dB/km

Attenuation coefficient Tight Buffered Cables (Typical / Maximum)

@1550 nm 0.26 / 0.4 dB/km

@1625 nm 0.31 / 0.4 dB/km

Point of discontinuity at 1550 nm  $\leq 0.15$  dB

Cable cut-off wavelength  $\leq 1450$  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  $\leq 0.15$  ps/Ökm

Fiber PMD link value  $\leq 0.1$  ps/Ökm

### Geometrical Characteristics

Mode field diameter @1550 nm  $9.6 \pm 0.5$   $\mu$ m

Core/Cladding concentricity error  $\leq 0.5$   $\mu$ m

Cladding diameter	$125.0 \pm 0.7 \mu\text{m}$
Cladding non-circularity	$\leq 0.7\%$
Primary coating diameter (uncoloured fibre)	$242 \pm 5 \mu\text{m}$
Primary coating diameter (coloured fibre)	$250 \pm 10 \mu\text{m}$
Fibre curl radius	$\geq 4.0 \text{ m}$
Coating-Cladding concentricity	$\leq 12 \mu\text{m}$

### Macrobanding loss

100 turns, mandrel diameter 60 mm @1550 nm	$\leq 0.05 \text{ dB}$
100 turns, mandrel diameter 60 mm @1625 nm	$\leq 0.05 \text{ dB}$
1 turns, mandrel diameter 32 mm @1550 nm	$\leq 0.5 \text{ dB}$
1 turn, mandrel diameter 32 mm @1625 nm	$\leq 0.5 \text{ dB}$

### Mechanical Characteristics

Proof test level	$\geq 100 \text{ kpsi (1.0\% strain)}$
Coating strip force	$1.3 \sim 8.9 \text{ N}$
Dynamic fatigue resistance parameter	$\geq 20$

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 an discontinuity of the OTDR curve caused by winding of the cable on the reel.