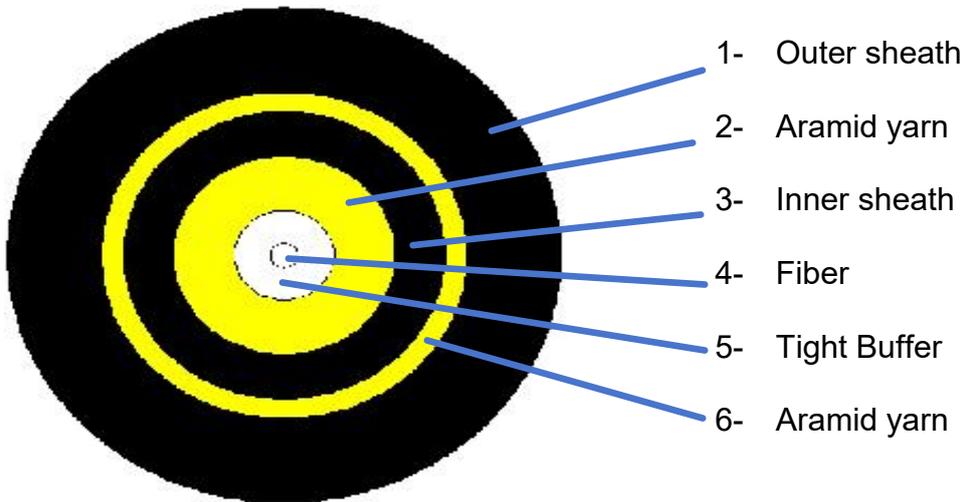


Optical Cable 1F SM G657A2 Double Jacket LSZH OD: 5.0

Cable Structure



Cable Construction Details

Items		Description
Number of fiber		1F
Fiber type		G657A2
Tight Buffer	Material	LSZH
	Color	White/Black
	Diameter	0.9±0.05mm
Strength member	Material	Aramid yarn
Inner sheath	material	LSZH
	Color	Black
	diameter	2.9±0.1mm
Outer sheath	material	FR LSZH
	Color	Black
	diameter	5.0±0.2mm
Min Bending Radius(mm)	Static	10D
	Dynamic	20D
Maximum tensile load	Long term	200
	short term	450
Crush Load (N/100mm)	Long term	500
	short term	1000
Storage or transportation (°C)		-20+70
Operation and transport temperature (°C)		-20+70

Fiber Characteristic

Characteristics	Conditions	Specified Values	Unit
Attenuation (Cable)	1310nm	≤ 0.4	dB/KM
	1550nm	≤ 0.3	dB/KM
Attenuation vs.Wavelength Max. α difference	1285-1330nm	≤ 0.03	dB/KM
	1525-1575nm	≤ 0.02	dB/KM
Zero dispersion wavelength		1300-1324	nm
Zero dispersion slope		≤ 0.092	ps/nm ² .km
PMD		-	
Maximum Individual Fiber		≤ 0.2	ps/ $\sqrt{\text{km}}$
Link Design Value (M=20,Q=0.01%)		≤ 0.1	ps/ $\sqrt{\text{km}}$
Typical value		0.04	ps/ $\sqrt{\text{km}}$
Cable cutoff wavelength λ_{∞}		≤ 1260	nm
Mode field diameter (MFD)	1310nm	8.4-9.2	um
	1550nm	9.8 \pm 0.5	um
Effective group index of refraction	1310nm	1.466	-
	1550nm	1.467	-
Point discontinuities	1310nm	≤ 0.05	dB
	1550nm	≤ 0.05	dB
Geometrical Characteristics			
Cladding diameter		124.8 \pm 0.7	um
Cladding non-circularity		≤ 0.7	%
Coating diameter		245 \pm 5	um
Coating-cladding concentricity error		≤ 12.0	um
Coating non-circularity		≤ 6.0	%
Core-cladding concentricity error		≤ 0.5	um
Curl (radius)		≥ 4	m
Point discontinuities	1310nm	≤ 0.05	dB
	1550nm	≤ 0.05	dB
Geometrical Characteristics			
Cladding diameter		125.0 \pm 0.7	um
Cladding non-circularity		≤ 0.7	%
Coating diameter		245 \pm 5	um
Coating-cladding concentricity error		≤ 12.0	um
Coating non-circularity		≤ 6.0	%
Core-cladding concentricity error		≤ 0.5	um
Curl (radius)		≥ 4	m