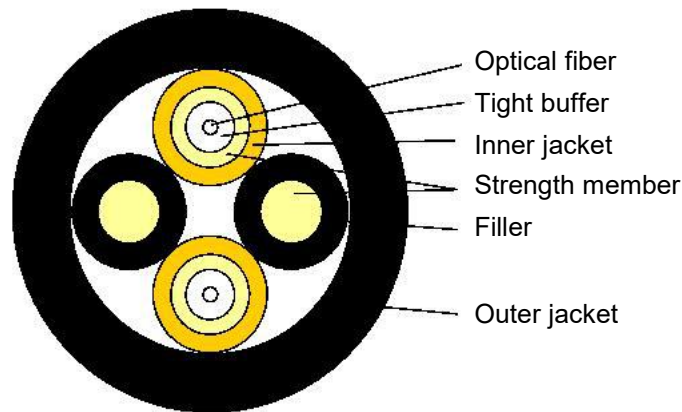


Cross section of cable



Optical fiber type and properties

Item	Unit	Specification	
		G.652D	
Mode field diameter	1310nm	μm	9.0 ± 0.4
	1550nm	μm	10.4 ± 0.8
Cladding diameter	μm	125.0 ± 0.7	
Cladding non-circularity	%	≤ 1.0	
Core concentricity error	μm	≤ 0.5	
Coating diameter	μm	245 ± 5	
Coating/cladding concentricity error	μm	≤ 12	
Cable cut-off wavelength	nm	≤ 1260	
Attenuation Coefficient	1310nm	dB/km	≤ 0.35
	1550nm	dB/km	≤ 0.21
Proof stress level	kpsi	≥ 100	

ITU-T G.652 (Other parameters meet standard ITU-T G.652)

Dimensions of cable constructions

Item	Parameters	
Tight buffer fiber	Diameter	$0.9 \pm 0.05\text{mm}$
	Material	LSZH
	Color	White
	Material	Aramid yarn

Strength member		
Sub-unit	Diameter	2.0±0.1mm
	Material	LSZH
	Color	Yellow (Marking 1, 2 respectively for identification with an interval of 100mm)
	Thickness	0.35±0.05mm
Filler	Diameter	2.0±0.1mm
	Material	LSZH
	Color	Black
Outer sheath	Diameter	7.0±0.2mm
	Material	LSZH
	Color	Black
	Thickness	1.0±0.1mm
Min. bending radius	Static	10 times cable diameter
	Dynamic	20 times cable diameter
Tensile performance	Short term	400N
	Long term	200N
Crush	Short term	2200N/100mm
	Long term	1100N/100mm
Cable attenuation	≦ 0.4 dB/km at 1310nm, ≦ 0.3 dB/km at 1550nm	
Cable weight (Approx.)	43.0 kg/km	

Mechanical and environmental characteristics

Item	Test method	Requirements
Tensile performance	IEC 60794-1-2-E1	The maximum total fiber strain less than 0.4% under rated tensile load. No fiber breakage and no damage to the sheath.
Crush	IEC 60794-1-2-E3	No fiber breakage and no damage to the sheath.
Impact	IEC 60794-1-2-E4	No fiber breakage and no damage to the sheath.
Repeated bending	IEC 60794-1-2-E6	No fiber breakage.
Cable torsion	IEC 60794-1-2-E7	No fiber breakage.
Cable flexing	IEC 60794-1-2-E8	No fiber breakage.
Cable kink	IEC 60794-1-2-E10	No kink occurs.
Temperature cycling	IEC 60794-1-2-F1	The maximum increase (1550nm) in attenuation

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		shall be less than 0.4dB
Flame propagation	IEC 60332-3C	
Environment performance	RoHS	

Working condition

Item	Standard)	Parameters
Operation temperature	IEC 60794-1-2 F1	-40°C ~ +80°C
Installation temperature		-20°C ~ +60°C
Transportation and storage temperature		-40°C ~ +80°C

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