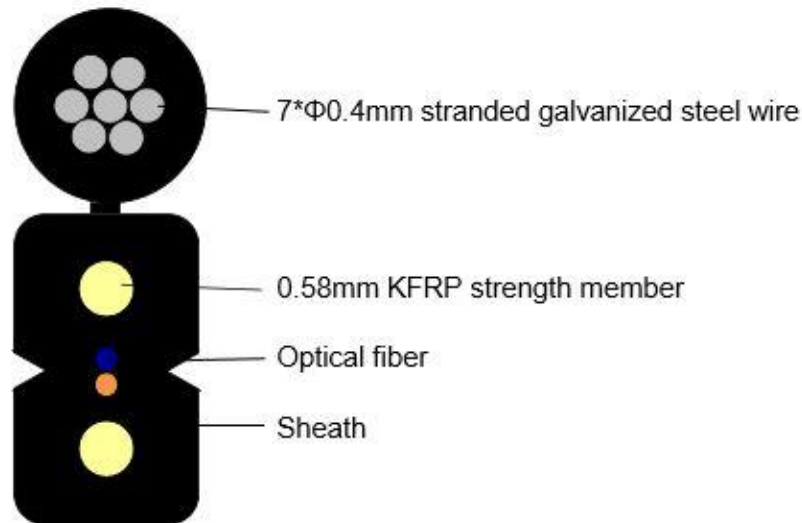


GJYXFCH-2B6



Type and Properties

Item	Unit	Specification	
		G657A2	
Mode field diameter	1310nm	μm	8.6± 0.4
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Core concentricity error		μm	≤0.5
Coating diameter		μm	245 ± 10
Coating/cladding concentricity error		μm	≤12
Cable cut-off wavelength		Nm	≤1260
Zero-dispersion wavelength		Nm	1300~1324
Zero-dispersion slope		ps/(nm ² ·km)	≤0.092
Chromatic dispersion	@1285~1625nm	ps/(nm ² ·km)	≤3.0
	@1550nm	ps/(nm ² ·km)	≤18.0
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1383nm	dB/km	≤0.35
	1550nm	dB/km	≤0.215
	1625nm	dB/km	≤0.25
Macro-bend loss (1turn,15mm radius)	1550nm	dB/km	≤0.5
	1625nm	dB/km	≤1.0
Macro-bend loss (1turn,20mm radius)	1550nm	dB/km	≤0.1
	1625nm	dB/km	≤0.2
Macro-bend loss (10 turns,30mm radius)	1550nm	dB/km	≤0.03
	1625nm	dB/km	≤0.1
Proof stress level		kpsi	≥100

Technology specification

Item	Technology parameter
Cable type	GJYXFCH-2B6
Cable specification	5.3×2.0
Fiber color	Blue, orange
Fiber type	9/125 (G.657A2)
Strength member	KFRP (0.58mm)
Messenger wire	Stranded galvanized steel wire (7*Φ0.4mm)
Sheath color	Black
Sheath material	LSZH
Cable dimension mm	5.3(±0.2)*2.0(±0.1)
Cable weight Kg/km	Approx. 19.0
Min. bending radius mm	120
Min. bending radius mm (Excluding messenger wire)	15D (Static) 30D (Dynamic) (D: Cable diameter)
Attenuation dB/km	≤ 0.36 at 1310nm, ≤ 0.22 at 1550nm
Short term tensile N	600
Long term tensile N	300
Short term crush N/100mm	2200
Installation temperature °C	-10~+60
Operation temperature ≅	-20~+70
Transportation temperature	0~+50

Mechanical and environmental characteristics

Item	Test method	Requirements
Tensile Loading test IEC 60794-1-2-E1	Load: 600N Diameter of the chuck drums: 250mm Cable length under tension: ≥ 50m Velocity of transfer device: 100 mm/min Duration of load sustain: 1min	Loss change ≤ 0.1 dB @1550 nm No damage to the cable elements.
Crush test IEC 60794-1-2-E3	Load: 2200N Plate size: 100 mm Duration of load: 1min Length between test locations: 500 mm	Loss change ≤ 0.4 dB @1550 nm No damage to the cable elements.
Impact test IEC 60794-1-2-E4	Dia. of impacted surface: 25 mm Striking surface Radius: 12.5mm Impact Weight: 1N Number of impacts: at least 3, each separated at least 500 mm Height:1m	Loss change ≤ 0.4 dB @1550 nm No damage to the cable elements.
Repeated bending IEC 60794-1-2-E6	Bending radius: 30 times cable diameter Cycles: 300 Mass of weights: 20N	Loss change ≤ 0.4 dB @1550 nm No damage to the cable elements.
Torsion test IEC60794-1-E7	Cycles: 20 Turns: 180° Clamp:1m Tension load: 20N	Loss change ≤ 0.4 dB @1550 nm No damage to the cable elements.
Cable kink IEC 60794-1-2-E10	Min. loop diameter: 2 times of cable static bend radius	No kink occur.
Temperature Cycling IEC60794-1-F1	Length : 1,000m: Temperature cycle: 20°C→-20°C→+70°C→ 20°C→+70°C→20°C Number of cycle: 1 Time per step: 8 hours	Loss change ≤ 0.4 dB @1550 nm No damage to the cable elements.
Environment performance	RoHS	