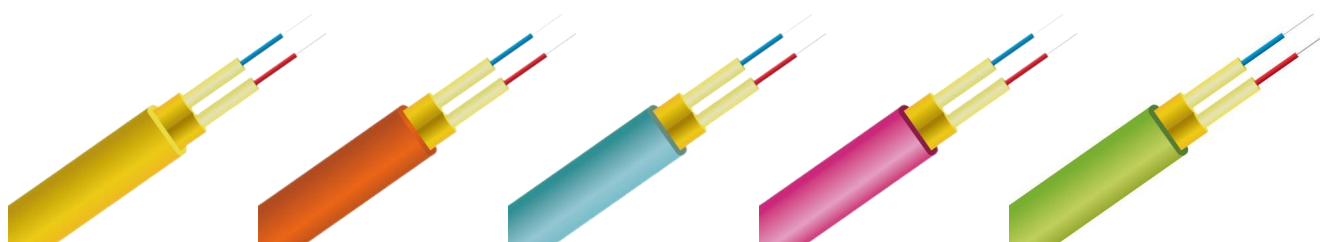
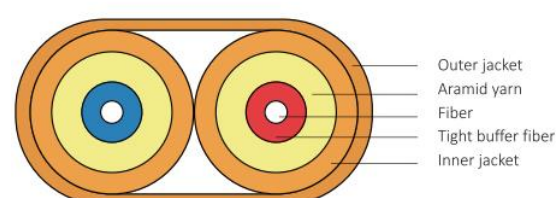


## Duplex Flat Fiber Cable



Duplex Flat Fiber Cable (also called side-by-side duplex cable) consists of two optical fibers arranged in a flat, parallel configuration within a single jacket. Abalone Tech's Duplex Flat Fiber Cable, available in OS1/OS2 (single-mode) and OM1/OM2/OM3/OM4/OM5 (multimode) type. With outer jacket options in PVC or LSZH, it is designed for bidirectional communication (Tx/Rx) in high-density or space-constrained installations.



### FEATURES

- ✓ Flat Profile – Slim, flexible design ideal for tight spaces (e.g., patch panels, equipment trays).
- ✓ Two Fibers in One Cable – Typically color-coded (blue/orange) for easy identification of Tx/Rx channels.
- ✓ Tight-Buffered Fibers – Each fiber has individual protection, suitable for indoor use.
- ✓ Single-Mode (SMF) or Multimode (MMF) – Supports OM1/OM2/OM3/OM4/OM5 or OS2 fibers.
- ✓ Common Connectors – LC duplex, SC duplex, or custom terminations.

### APPLICATIONS

- ✓ Data Centers (high-density patch cords, switch connections).
- ✓ FTTH (Fiber to the Home) – Indoor wiring for residential broadband.
- ✓ Telecom Equipment – Routers, OLTs, and base stations.
- ✓ Industrial Networks – Factory automation, control systems.

## SPECIFICATIONS

Item		Parameter		
FiberCore		2		
CableDiameter(mm)		3.1×4.9	4.0×7.0	4.4×7.4
TensileStrength(N)	Short-term	120	240	240
	Long-term	60	120	120
CrushResistance(N/100mm)	Short-term	1000	1000	1000
	Long-term	400	400	400
MinimumBendRadius(mm)	Dynamic	20H	20H	20H
	Static	10H	10H	10H
MaxAttenuation(dB/km)	G.652(1310nm/1550nm)	0.4/0.3		
	G.657(1310nm/1550nm)	0.4/0.3		
	62.5μm(850nm/1300nm)	3.5/1.5		
	50μm(850nm/1300nm)	3.5/1.5		
	50μm(850nm/953nm)	3.0/2.4		
TypicalValue(dB/km)	G.652(1310nm/1550nm)	0.36/0.22		
	G.657(1310nm/1550nm)	0.36/0.22		
	62.5μm(850nm/1300nm)	3.0/1.0		
	50μm(850nm/1300nm)	3.0/1.0		
	50μm(850nm/953nm)	2.6/1.9		
OperationTemperature(°C)		-20~ +70		

