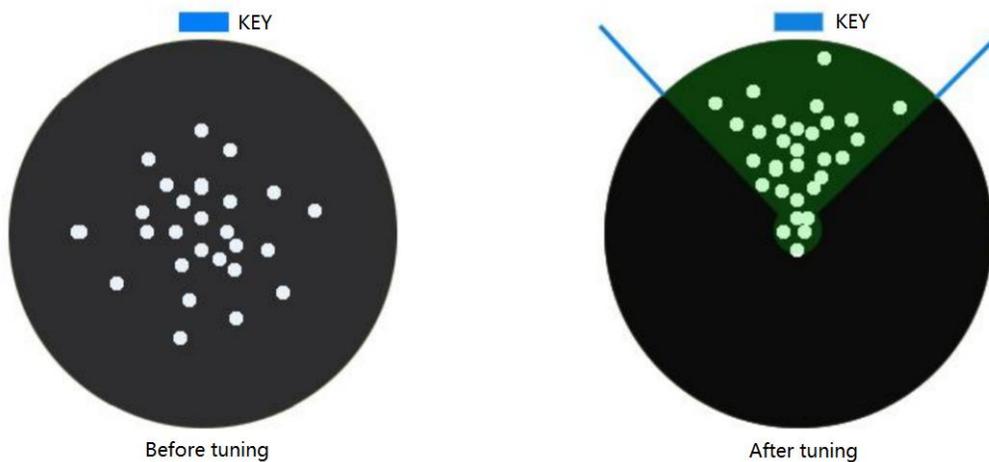




## ● Introduction

Grade B is defined based on IEC 61753-1, which is stable with excellent random mating performance between each grade B connector. Grade B fiber patch cord (pigtail) is designed to meet large bandwidth and high speed requirements of the latest active optical equipment, allowing large streams of data to be transmitted reliably over long distances.

For grade B connectors, the axial misalignment of the two ferrules must be as small as possible. All the fiber cores must be adjusted and tuned into a defined zone to get low attenuation of random mating.



## ● Compliance

- IEC 61753-1
- IEC 61754
- IEC 61755-3
- IEC 61300-2
- IEC 61300-3

- Insertion Loss Performance

Attenuation Grade (IEC 61753-1:2018)	Random mated (IEC 61300-3-34:2009)	
A*	Not specified yet	
B	≤0.12 dB mean	≤0.25 dB max. for >97% of samples
C	≤0.25 dB mean	≤0.50 dB max. for >97% of samples
D	≤0.50 dB mean	≤0.10 dB max. for >97% of samples

- Technical Specification

Item	Condition	Description
Connector Type		LC /MU /SC /FC /Others
Polishing Type		UPC /APC /APC(9°)
Return loss (dB)		UPC≥50 /APC≥60
Wavelength (nm)		1310 /1550
Operation Temperature (°C)		-20~70
Storage Temperature (°C)		-40~85
Optical Fiber		G652D/G657A
Bend Radius (mm)	Dynamic	50
	Static	30 (G652D) /10 (G657A1) /7.5 (G657A2)
Fiber Attenuation (dB)	@1310nm	0.35
	@1550nm	0.2
Cable OD (mm)		0.6 /0.9 /1.6 /1.8 /2.0 /2.4 /3.0
Cable Jacket		PVC /LSZH / TPU /Others
Cable Colour		White /Yellow /Customized
Cable Length		TBC
Strengthen Member		Aramid Yarn
Torsion	IEC 61300-2-5	IL Deviation ≤0.2dB
Impact	IEC 61300-2-12 (Method C)	IL Deviation ≤0.2dB
Max. Tension (N) (1.6mm Simplex Cable)	Long Term	40
	Short Term	80
Max. Crushing Resistance (N/100mm) (1.6mm Simplex Cable)	Long Term	100
	Short Term	500

