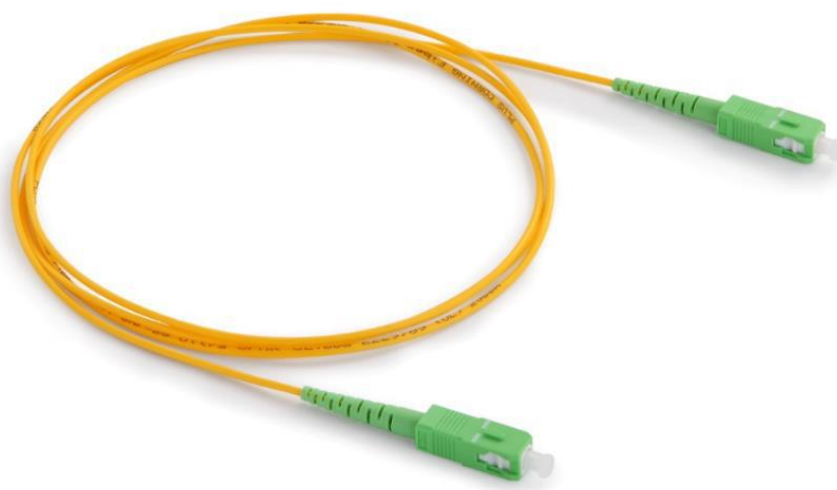


Grade B Patch Cord



Introduction

With the advances in fiber optic technology and transmission systems, reliable cabling systems are becoming even more important. Active optical equipment, which is often worth hundreds of thousands of dollars, is all connected into the network via the humble fiber optic patch cord or patch lead. The risk of network downtime due to unreliable cabling is one that should be avoided. Therefore, these types of networks, along with many other Data Center and high-speed Commercial networks require reliable cabling infrastructure in order to maximize performance and to ensure long term reliability.

Optical Fiber Connector Grades

IEC standards dictate the connector performance for each grade of fiber-optic patch cord connector based on IEC 61753-1. As it defined, there are four grades for insertion loss from A (best) to D (worst). For conventional patch cord, mated performance is over 0.5dB, even to 1.0dB. This may cause the whole high speed optical connection system unreliable and transmission unstable. Therefore, grade B is stable with excellent optical performance of maximum 0.25dB while mated each other which is a guarantee for hundreds of gigabit data exchange with connections.

Grade	Average of Random Mating	97% of Random Mating
A*	Not Defined	Not Defined
B	≤ 0.12 dB	≤ 0.25 dB
C	≤ 0.25 dB	≤ 0.50 dB
D	≤ 0.50 dB	≤ 1.0 dB

Remark: Grade A is not determined yet according IEC 61753-1

Features

- Good repeatability and interchangeability
- High precision connector
- UPC APC end face polish
- LC, MU, SC, FC, all single fiber connector
- Customized length available
- 100% factory terminated and tested
- ROHS Compliant

Standard Compliance

- TIA/EIA 568.3-D
- TIA/EIA 604 Series
- IEC 61754 Series
- IEC 71753-1
- GR 326-Core

Technical Specification

General Specification

Constructions	Descriptions
Fiber Mode	Single mode: G.652/G657
Fiber Brand	SMF-28® Ultra optical fiber
Cable Jacket Material	Low Smoke Zero Halogen (LSZH) PVC
Cable Jacket Ratings	Riser (OFNR) Plenum (OFNP)
Cable Jacket Color	G652/G657: Yellow or Customized
Polarity	A-A,A-B (TIA 568.3-D)
Connector type	LC/MU/SC/FC/Others
Operating Temperature	-20 °C ~ +70 °C
Storage Temperature	-40 °C ~ +85 °C

Grade B Technical Specification

Optical Properties	Singlemode
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Information and specifications are subject to change without notice.
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Insertion Loss (dB)	≤ 0.2
Return Loss (dB)	$PC \geq 50; APC \geq 65$
Wavelength (nm)	1310/1550
Random mating loss (dB)	Max 0.12dB mean, Max 0.25dB for 97% of samples

Note:

[1] IL&RL Test method: IEC 61300-3-4 insertion B

[2] Random mating loss test method: IEC 61300-3-34

Cable Structure