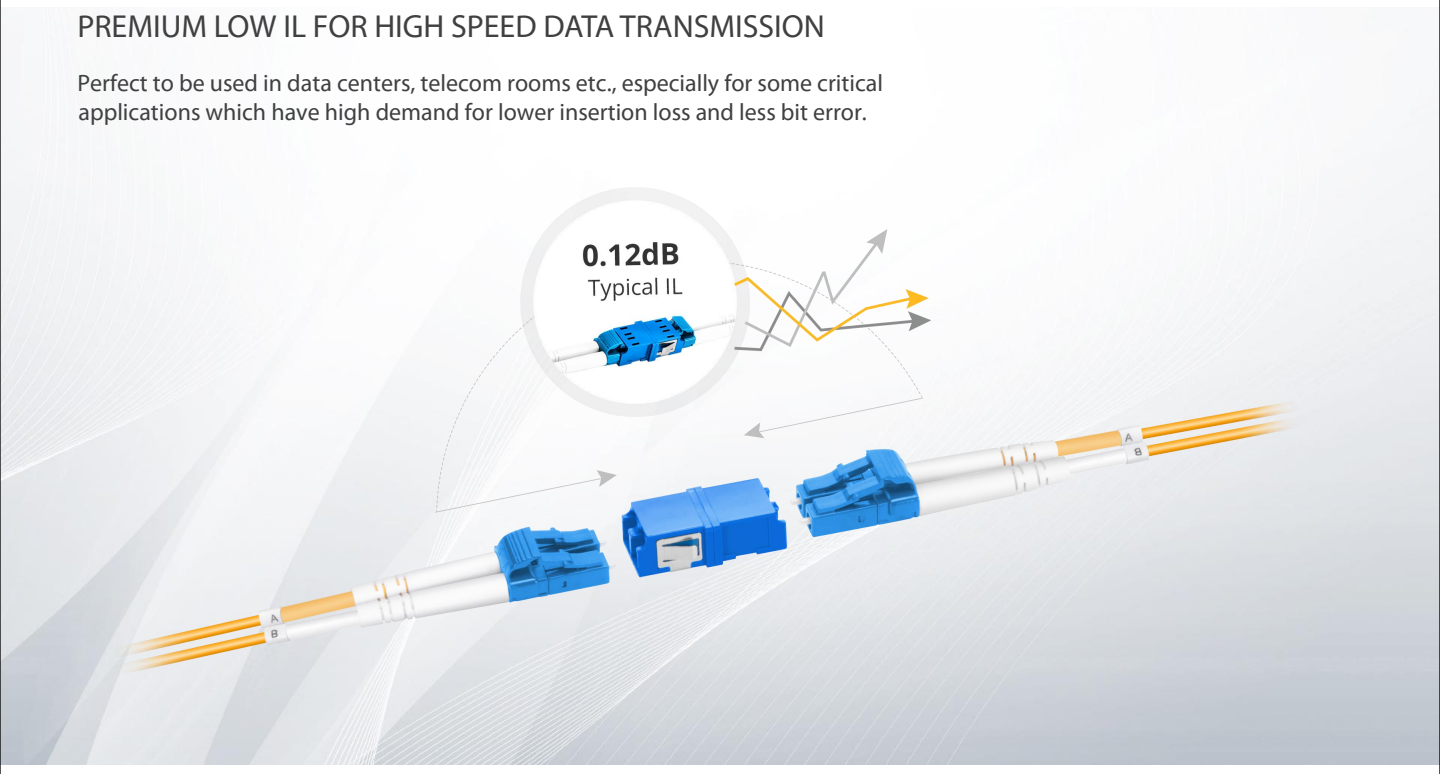
Grade B BIF Fiber Patch Cables Datasheet

PREMIUM LOW IL FOR HIGH SPEED DATA TRANSMISSION

Perfect to be used in data centers, telecom rooms etc., especially for some critical applications which have high demand for lower insertion loss and less bit error.



Grade B BIF Fiber Patch Cables

Grade B is based on IEC 61753-1, which is stable with excellent random mating performance between each grade B connector. Max. insertion loss of random mating of grade B patch cable is ≤0.25dB, however, random mating of standard patch cable will be over 0.5dB, even over 1.0dB especially for APC connector. Grade B BIF fiber patch cable 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.

Standards Compliance

- RoHS, ISO 9001 Compliant
- IEC 61753-1
- TIA 604 (FOCIS)
- GR 409
- YD/T 125.25
- ICEA-596
- IEC 60794-2-10/IEC 60332-1/IEC 60332C

Features

- IEC 61753-1 random mating IL grade B connector.
- High quality zirconia ferrules.
- LC, SC, FC, MU connectors available.
- Corning® bend insensitive fiber.
- Good repeatability and interchangeability.
- Flame-retardant, rugged and durable jacket.
- Printing helps clarify and recognize different cables.
- Factory terminated and tested for insertion loss, return loss and end face.

Technical Specification

Physical Characteristics	Description
Connector Type	LC/SC/FC/MU
Polish Type	UPC-UPC; UPC-APC; APC-APC
Connector Ferrule	Zirconia Ceramic
Cable Outside Diameter	Duplex: 2.0/3.0mm, Simplex: 0.9/2.0/3.0mm
Minimum Bend Radius	10mm

Mechanical Characteristics	Description
Fiber Type	OS2 9/125 Single Mode
Fiber Count	Duplex/Simplex
Cable Jacket	PVC (Riser/OFNR)/LSZH/Plenum (OFNP)
Jacket Color	Yellow
Fiber Grade	G.657.A1

Optical Characteristics	Description
Connector Insertion Loss	≤0.12dB mean, ≤0.25dB max. for >97% of sample
Connector Return Loss	UPC≥50dB; APC≥60dB
Attenuation at 1310nm	0.36 dB/km
Attenuation at 1550nm	0.22 dB/km

Environmental Characteristics	Description
Operating Temperature	-20 to 70° C
Storage Temperature	-40 to 80° C

Random Mating IL Performance Grades

	Connector Grade	Master Cord [1]	Random Mating Average	Random Mating for 97% [2]
Grade According to IEC 61753-1	Grade A [3]	Not Defined Yet	Not Defined Yet	Not Defined Yet
	Grade B	≤0.2dB	≤0.12dB	≤0.25dB
	Grade C	≤0.3dB	≤0.25dB	≤0.5dB
	Grade D	≤0.3dB	≤0.5dB	≤1.0dB

Notes:
1. A master cord is a perfect cord that has absolute low loss and is used as a base to measure and define the IL of the tested cord.
2. For Maximum IL, 97% to meet the specification.
3. For Random mating Grade A, specification is not determined yet.

Hot Products

ID	Description
#68294	1m (3ft) Grade B LC UPC to LC UPC Duplex PVC OS2 BIF Fiber Patch Cable, Typical 0.12dB IL
#68295	2m (7ft) Grade B LC UPC to LC UPC Duplex PVC OS2 BIF Fiber Patch Cable, Typical 0.12dB IL
#68296	3m (10ft) Grade B LC UPC to LC UPC Duplex PVC OS2 BIF Fiber Patch Cable, Typical 0.12dB IL
#68297	5m (16ft) Grade B LC UPC to LC UPC Duplex PVC OS2 BIF Fiber Patch Cable, Typical 0.12dB IL

Matching Products

ID	Description
#35488	Fiber Adapter Panel with 12 LC Duplex OS2 Single Mode Adapters
#57016	MTP-12 MPO/MTP Cassette, 12 Fibers Single Mode, LC Duplex, Type A
#70361	Upgrading 1U Rack Mount FHD High Density Slide-out Fiber Enclosure Unloaded, Holds up to 4x FHD Cassettes or Panels
#48497	LC/UPC to LC/UPC Duplex Singlemode SC Type Plastic Fiber Optic Adapter
#11555	Cisco SFP-10G-LR Compatible 10GBASE-LR SFP+ 1310nm 10km DOM Transceiver Module

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