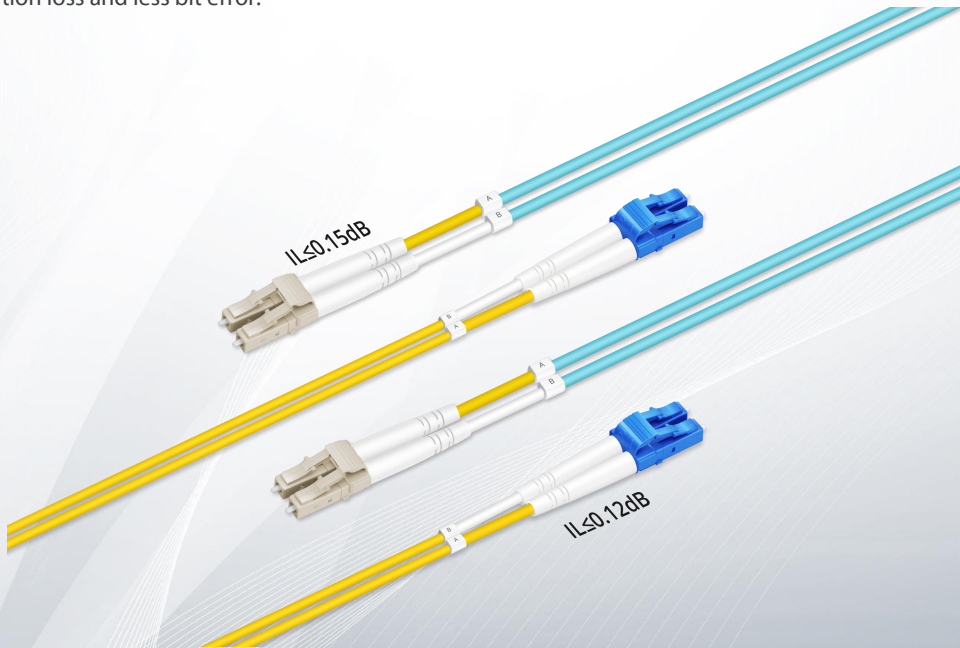


# Ultra Low Loss LC Cables Datasheet

## 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.



## Ultra Low Loss BIF Fiber Patch Cables

FS.COM provides single-mode and multi-mode ultra low loss LC cables.

The maximum IL of multimode patch cables is 0.15dB. The single mode patch cables use IEC 61753-1 random mating specified grade B connectors ( $\leq 0.12\text{dB}$  mean,  $\leq 0.25\text{dB}$  max for  $>97\%$  of sample), ensure ultra-low insertion loss, best return loss, effectively reduce the error rate.

The ultra low loss LC cables are 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

- ISO 9001, ISO 14001 Compliant
- ROHS, CE, REACH and WEEE
- TIA 604 (FOCIS)
- GR 409, YD/T 125.25
- ICEA-596, IEC 61753-1
- IEC 60794-2-10, IEC 60332-1, IEC 60332C

## Features

- IEC 61753-1 random mating IL grade B SMF connector.
- Corning bend insensitive fiber features ultra-bendable performance.
- Zirconia ceramic ferrules can reach up to 500 times insertion lifespan.
- Flame-retardant, rugged and durable PVC, LSZH, OFNP jacket.
- Length Label and meter printing help clarify and recognize different cables.
- Factory terminated and tested for insertion loss, return loss and endface.
- LC, SC, FC, MU connectors available

Technical Specification

Physical Characteristics	Description
Connector Type	LC/SC/FC/MU
Polish Type	SMF: UPC-UPC; UPC-APC; APC-APC MMF: UPC-UPC
Connector Ferrule	Zirconia Ceramic
Cable Outside Diameter	Duplex: 2.0/3.0mm; Simplex: 0.9/2.0/3.0mm
Minimum Bend Radius	SMF: 10mm; MMF: 7.5mm
Mechanical Characteristics	Description
Fiber Type	OS2/OM4
Fiber Count	Duplex/Simplex
Cable Jacket	PVC (Riser/OFNR)/LSZH/Plenum (OFNP)
Jacket Color	OS2: Yellow; OM4: Aqua
Fiber Grade	SMF: G.657.A1; MMF: Bend Insensitive
Optical Characteristics	Description
Connector Insertion Loss	SMF: ≤0.12dB min, ≤0.25dB max MMF: ≤0.15dB
Connector Return Loss	SMF: UPC≥50dB, APC≥60dB MMF: ≥30dB
Attenuation at 1310nm	0.32 dB/km
Attenuation at 1550nm	0.18 dB/km
Attenuation at 850nm	2.3 dB/km
Attenuation at 1300nm	0.6 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 A ③	Not Defined Yet	Not Defined Yet	Not Defined Yet
Grade According to IEC 61753-1	Grade B	≤0.2dB	≤0.12dB	≤0.25dB
	Grade C	≤0.3dB	≤0.25dB	≤0.5dB
	Grade D	≤0.3dB	≤0.5dB	≤1.0dB

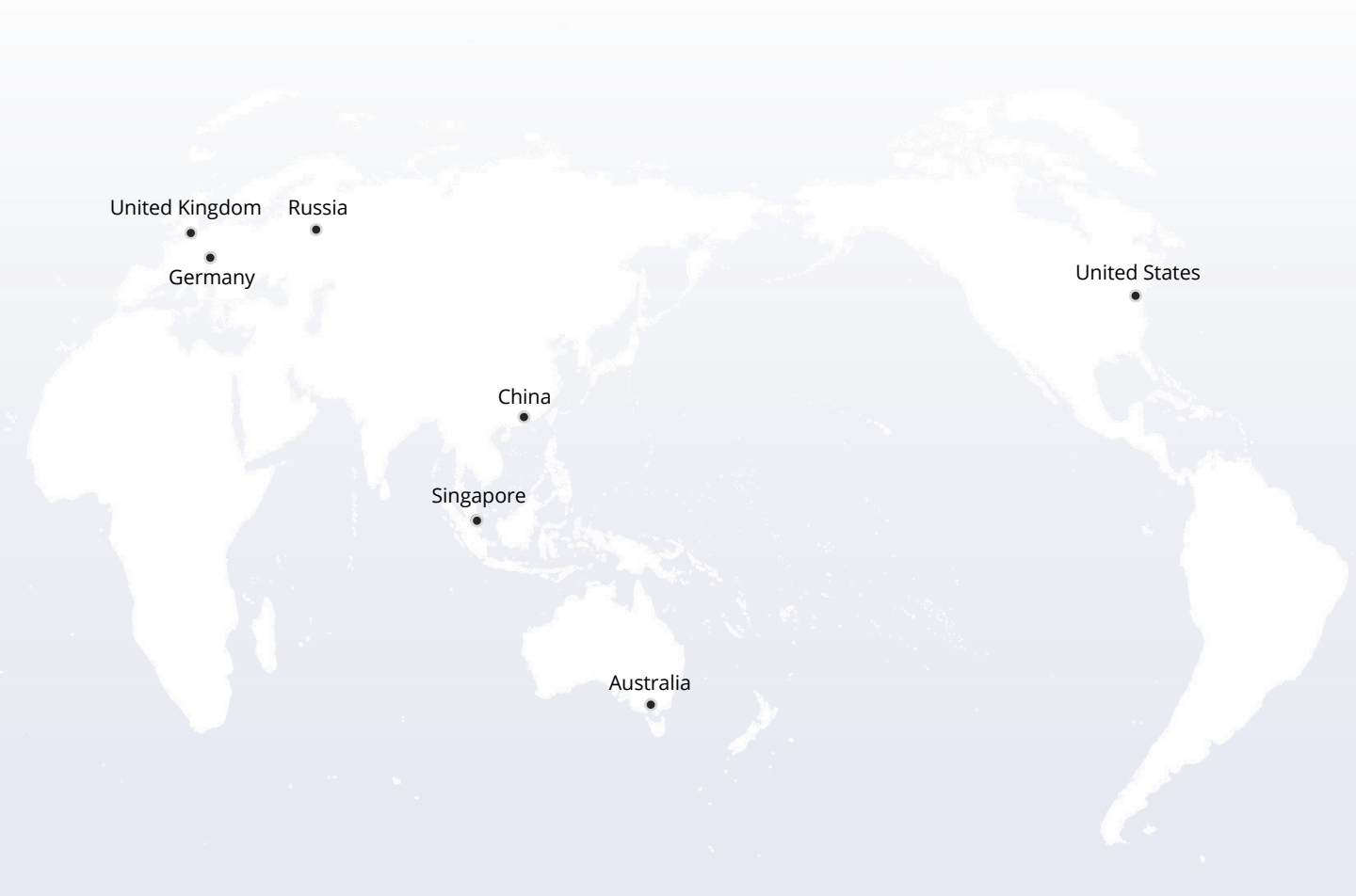
- Notes:
- ①. A master cord is a perfect cord that has absolute low loss and is used as a base to measure and define the IL of the tested cord.
  - ②. For Maximum IL, 97% to meet the specification.
  - ③. For Random mating Grade A, specification is not determined yet.

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
#68299	1m (3ft) LC UPC to LC UPC Duplex PVC OM4 Multimode BIF Fiber Patch Cable, 0.15dB IL
#68300	2m (7ft) LC UPC to LC UPC Duplex PVC OM4 Multimode BIF Fiber Patch Cable, 0.15dB 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
#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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