

# FBL130

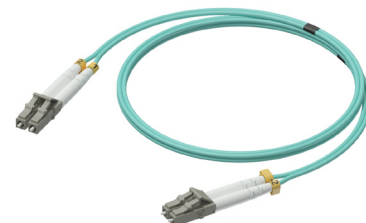
## Fiber optic LC/PC to LC/PC duplex



The FBL130 is a laser optimized OM3 type (50/125  $\mu\text{m}$ ) duplex hybrid multimode fiber optic patch cord suitable for 10 Gigabit network standards.

Both ends are terminated with duplex LC/PC connectors, allowing direct connection between transmitting and receiving units. The cable construction is composed of low-smoke and halogen free materials finished with an aqua coloured jacket to differentiate between standard 50/125  $\mu\text{m}$  (OM2) fibers (while being backward compatible).

The conductor section of 50  $\mu\text{m}$  is optimized for laser transmission signals, resulting in 10 Gigabit signal transmission for lengths up to 300 meters.



INSTALL

Physical Characteristics	
Type of cable	Fiber optic LC/PC to LC/PC duplex
Inner conductor	50/125 OM3 / Multimode
Number of conductors	2 (duplex)
Core diameter	$\varnothing 50 \pm 2.5 \mu\text{m}$
Cladding diameter	$\varnothing 125 \pm 1.0 \mu\text{m}$
Insulation	Aramid yarn
Outer Jacket	LSHF
Outer Jacket Colour	Aqua
Outer Jacket Dimensions	2.0 x 4.0 mm (2 x $\varnothing 2.0$ mm)
Connection type	LC MM Duplex connector (beige housing with boot)

Standards & regulations	
RoHS2 compliant	According EU Directive 2011/65/EU
Reach compliant	According EC 1907/2006
Indoor / outdoor	Indoor
Circuit integrity	n/a
Smoke emissions	According IEC 61034
Zero halogen compounds	According EN 50267-2-1, IEC 60754
Cabling standard	TIA/EIA-586 B.3 & Bellcore GR-409 & OFNR-UL/CSA FT4

Mechanical Characteristics		
Temperature range	fixed installation	-20° C till +80° C
	flexible installation	-15° C till +60° C
Bending radius	fixed installation	10 x cable $\varnothing$ OD
	flexible installation	20 x cable $\varnothing$ OD
Max tension	Short term	200 N
	Long term	100 N
Crush resistance	(N / 100mm)	1000

Optical Characteristics	
Maximum attenuation	$\leq 2.5 \text{ dB @ } 850 \text{ nm}$
	$\leq 0.8 \text{ dB @ } 1300 \text{ nm}$
Insertion loss	$\leq 0.3 \text{ dB}$
Return loss	$\geq 35 \text{ dB}$
Minimum bandwidth	1500 MHz @ 850 nm
	500 MHz @ 1300 nm

Ordering & packaging		
FBL130/0.5	LSHF, AQUA	0.5 meter
FBL130/1	LSHF, AQUA	1 meter
FBL130/1.5	LSHF, AQUA	1.5 meter
FBL130/3	LSHF, AQUA	3 meter

### Cross section

