

### Highlights:

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- LSHF jacket
- Duplex multimode 50/125 OM3  $\mu\text{m}$  fiber
- LC/PC connectors fitted
- 2 x 4 mm ( $\varnothing$ ) outer diameter
- TIA/EIA-568B.3 & Bellcore GR-409 compliant

### Product information:

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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.



### Properties:

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### Product Features:

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|             |                |
|-------------|----------------|
| Application | AV & IT        |
| Series      | Classic Series |

## Physical Characteristics:

|                   |                      |          |  |
|-------------------|----------------------|----------|--|
| Inner conductor   | Insulation           | Material | Aramid yarn                                      |
| Outer jacket      | Material             |          | LSHF 2.0 x 4.0 mm (Ø)                            |
|                   | Colours              |          | Aqua   |
| Type of cable     |                      |          | Fiber optic LC/PC to LC/PC duplex                |
| Inner conductor   | Material             |          | 50/125 OM3 / Multimode                           |
|                   |                      |          | 50 / 2.5 " multimode glass                       |
|                   | Number of conductors |          | 2 (duplex)                                       |
| Connection type   |                      |          | LC MM Duplex connector (beige housing with boot) |
| Cladding diameter |                      |          | 125 ± 1 µm (Ø)                                   |

## 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       | ANSI TIA-EIA 568B.3               |
|                        | Bellcore GR-409                   |
|                        | OFNR-UL/CSA FT4                   |

## Optical Characteristics:

|                     |                    |
|---------------------|--------------------|
| Maximum attenuation | ≤ 2.5 dB @ 850 nm  |
|                     | ≤ 0.8 dB @ 1300 nm |
| Insertion loss      | ≤ 0.3 dB           |
| Return loss         | ≥ 35 dB            |
| Minimum bandwidth   | 1500 MHz @ 850 nm  |
|                     | 500 MHz @ 1300 nm  |

## Mechanical Characteristics:

|                   |                     |                      |
|-------------------|---------------------|----------------------|
| Temperature range | Fixed installation  | - 20 °C till + 80 °C |
|                   | Mobile installation | - 15 °C till + 60 °C |
| Bending radius    | Fixed installation  | 10 x outer diameter  |
|                   | Mobile installation | 20 x outer diameter  |
| Max tension       | Short term          | 200 N                |
|                   | Long term           | 100 N                |
| Crush resistance  |                     | 1000 (N / 3.94 ")    |

## Variants:

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- FBL130/0.5 - 0.5 meter - lshf - aqua
- FBL130/1 - 1 meter - lshf - aqua
- FBL130/1.5 - 1.5 meter - lshf - aqua
- FBL130/3 - 3 meter - lshf - aqua