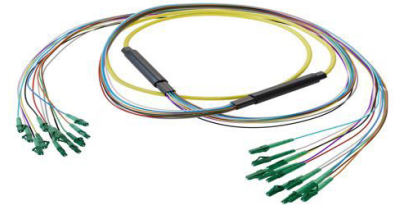


## 12-Fiber LC APC to LC APC, OS2 Single Mode Distribution Cable, 6.2mm LSZH, 2.0mm breakout, Yellow-10M



### PE3FCA456-10M

#### Features

- 12X LC APC to 12X LC APC
- Indoor single mode OS2
- Low Smoke Zero Halogen (LSZH) rated cable
- 6.2mm with tight buffer and aramid yarn strength member
- 2mm TIA 598 color coded, .5M breakout
- Suitable for confined installations where flame resistance is required

#### Applications

- Data centers
- Passive Optical Networks (PON)
- Local Area Networks (LAN)
- Enterprise Networking
- Storage and cloud based services
- AI data storage and communications
- Headend termination to a fiber backbone
- Terminations of data center fiber rack system

#### Description

High-performance fiber optic cable assemblies, including the PE3FCA456-10M from Pasternack, are designed for modern, high-speed network infrastructures and part of a large selection of same day ship cable assemblies. Whether deploying fiber optic distribution assemblies for enterprise networks, fiber optic breakout assemblies for seamless interconnectivity, or fiber optic patch cord assemblies for structured cabling, our solutions ensure durability and precision. Built for data centers, telecommunications, and industrial applications, our fiber optic distribution breakout assemblies deliver superior performance, ensuring optimal signal integrity and minimal loss.

For long-distance and high-speed transmission, the Pasternack PE3FCA456-10M indoor Single Mode G.657.A1 OS2 fiber optic cable assembly offers ultra-low attenuation over distances up to 10km for 10G Ethernet and beyond. Built with a 9/125µm core size, this 12 fiber LC APC to LC APC fiber optic distribution assembly ensures minimal signal loss for campus networks, metro Ethernet, and telecom infrastructure. The yellow Low Smoke Zero Halogen (LSZH) rated jacket, tight-buffered aramid yarn construction, and 42mm (7.5D) minimum bend radius provide maximum durability and performance.

With an operating temperature range of -20°C to 70°C, Pasternack's PE3FCA456-10M OS2 fiber optic cable is designed for indoor environments, supporting confined installations where flame resistance is required. The 6.2mm overall cable diameter and 2.0mm breakout diameter allow for flexible routing while maintaining low insertion loss and superior signal integrity. Whether for enterprise backbones, long-haul networking, or high-speed data transmission, this OS2 fiber optic assembly delivers exceptional reliability for critical infrastructure deployments. For further information on similar products, our expert technical support and trained sales team can get you the ideal fiber optic multi-fiber cable assembly as per your requirements.

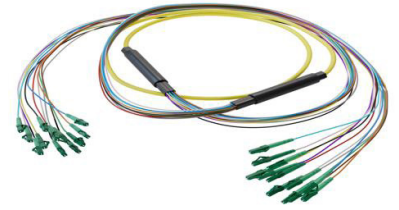
#### Configuration

|                     |                      |
|---------------------|----------------------|
| Function            | Breakout             |
| Cable Type          | 12-Fiber Single Mode |
| Mode                | Single Mode          |
| Mode Class          | OS2                  |
| Fiber Diameter      | 9/125 µm             |
| Connection 1 Type   | LC                   |
| Connection 1 Polish | APC                  |
| Connection 2 Type   | LC                   |
| Connection 2 Polish | APC                  |
| Cable Color         | Yellow               |

#### Optical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|---------|---------|-------|
| Return Loss | 60      |         |         | dB    |

12-Fiber LC APC to LC APC, OS2 Single Mode Distribution Cable, 6.2mm LSZH, 2.0mm breakout, Yellow-10M



**PE3FCA456-10M**

**Optical Specifications**

| Description    | Minimum | Typical | Maximum | Units |
|----------------|---------|---------|---------|-------|
| Insertion Loss |         |         | 0.3     | dB    |

**Mechanical Specifications**

**Cable Assembly**

|                |                      |
|----------------|----------------------|
| Width/Diameter | 6.2 mm               |
| Weight         | 159.66 g [0.352 lbs] |

**Cable**

|  |          |
|--|----------|
| Cable Type                                 | Breakout |
| Static Bend Radius                         | 47 mm    |
| Dynamic Bend Radius                        | 93 mm    |
| Max Crush Resistance, Short Term (N/100mm) | 1,000    |
| Max Crush Resistance, Long Term (N/100mm)  | 300      |

**Connectors**

| Description      | Connector 1 | Connector 2 |
|------------------|-------------|-------------|
| Type             | LC          | LC          |
| Connector Polish | APC         | APC         |

**Environmental Specifications**

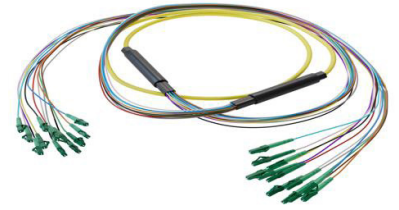
|                                |                  |
|--------------------------------|------------------|
| Operating Range Temperature    | -20 to +70 deg C |
| Storage Range Temperature      | -40 to +70 deg C |
| Ingress Protection (IP) Rating | Non-Rated        |

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

12-Fiber LC APC to LC APC, OS2 Single Mode Distribution Cable, 6.2mm LSZH, 2.0mm breakout, Yellow-10M



**PE3FCA456-10M**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3FCA456**

**- xx**

**uu**

Unit of Measure:

M = Meters

<blank> = Inches

Length

Base Number

Example: PE3FCA456-12 = 12 inches long cable  
PE3FCA456-100cm = 100 cm long cable

12-Fiber LC APC to LC APC, OS2 Single Mode Distribution Cable, 6.2mm LSZH, 2.0mm breakout, Yellow-10M from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [12-Fiber LC APC to LC APC, OS2 Single Mode Distribution Cable, 6.2mm LSZH, 2.0mm breakout, Yellow-10M PE3FCA456-10M](#)

URL: <https://www.pasternack.com/lc-lc-single-mode-os2-fiber-optic-cable-assembly-pe3fca456-10m-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3FCA456-10M CAD Drawing

12-Fiber LC APC to LC APC, OS2 Single Mode Distribution Cable, 6.2mm LSZH, 2.0mm breakout, Yellow-10M

