

## 4-Fiber LC UPC to LC UPC, OM1 Multimode Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Orange-30M



### PE3FCA181-30M

#### Features

- 4X LC UPC to 4X LC UPC
- Indoor multimode OM1
- Plenum (OFNP) rated cable
- 4.5mm with tight-buffer and aramid yarn strength member
- 2mm TIA 598 color coded, .5M breakout
- Suitable for wall, ceiling, conduits, and between buildings

#### 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 like the PE3FCA181-30M from Pasternack are essential for efficient and reliable network infrastructures and part of a large selection of same day ship cable assemblies. Whether you need distribution assemblies for large-scale enterprise networks, fiber optic breakout assemblies for seamless connectivity, or fiber optic patch cord assemblies for precision connections, our solutions are engineered for durability and performance. Designed for various applications, including data centers, telecommunications, and industrial environments, our fiber optic distribution breakout assemblies ensure optimal signal integrity and minimal loss, making them the preferred choice for high-speed data transmission.

Our fiber optic distribution cables, including the Pasternack PE3FCA181-30M OM1 indoor fiber optic breakout assembly, cater to various bandwidth and distance requirements. Built with tight-buffered aramid yarn construction, this 4-fiber multimode breakout assembly features LC UPC to LC UPC connectors and a Plenum (OFNP) rated jacket for fire safety. The 4.5mm overall cable diameter, 2.0mm breakout diameter, and 45mm (10D) minimum bend radius ensure flexibility for indoor installations. Whether for data centers, structured cabling, or conduit routing, this assembly is designed to meet stringent industry standards.

The Pasternack PE3FCA181-30M OM1 fiber optic cable assembly provides 100Mb Ethernet support and 10Gb Ethernet up to 33 meters with a 62.5/125µm core size and an LED light source. With an operating temperature range of 0°C to 60°C, this assembly is ideal for wall, ceiling, conduits, and between buildings. Engineered for low attenuation and high durability, the tight-buffered fiber with aramid yarn reinforcement ensures exceptional performance in demanding network environments. For further information on similar fiber optic 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          | 4-Fiber Multimode |
| Mode                | Multimode         |
| Mode Class          | OM1               |
| Fiber Diameter      | 62.5/125 µm       |
| Connection 1 Type   | LC                |
| Connection 1 Polish | UPC               |
| Connection 2 Type   | LC                |
| Connection 2 Polish | UPC               |
| Cable Color         | Orange            |

#### Optical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|---------|---------|-------|
| Return Loss | 30      |         |         | dB    |

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## PE3FCA181-30M

### Optical Specifications

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

### Mechanical Specifications

#### Cable Assembly

|                |                      |
|----------------|----------------------|
| Length         | 30 m [1181.10 in]    |
| Width/Diameter | 4.5 mm               |
| Weight         | 156.04 g [0.344 lbs] |

#### Cable

|  |          |
|--|----------|
| Cable Type                                 | Breakout |
| Static Bend Radius                         | 45 mm    |
| Dynamic Bend Radius                        | 90 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 | UPC         | UPC         |

### Environmental Specifications

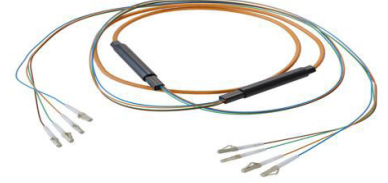
|                                |                  |
|--------------------------------|------------------|
| Operating Range Temperature    | 0 to +60 deg C   |
| Storage Range Temperature      | -20 to +60 deg C |
| Ingress Protection (IP) Rating | Non-Rated        |

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

### Plotted and Other Data

Notes:

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### PE3FCA181-30M

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3FCA181 - xx uu**

Unit of Measure:  
M = Meters  
<blank> = Inches

Length

Base Number

Example: PE3FCA181-12 = 12 inches long cable  
PE3FCA181-100cm = 100 cm long cable

4-Fiber LC UPC to LC UPC, OM1 Multimode Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Orange-30M 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: [4-Fiber LC UPC to LC UPC, OM1 Multimode Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Orange-30M PE3FCA181-30M](#)

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PE3FCA181-30M CAD Drawing

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