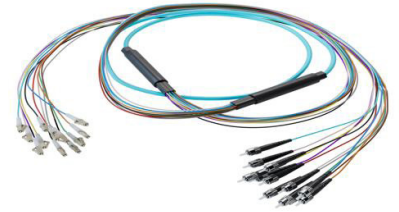


12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-5M



PE3FCA421-5M

Features

- 12X LC UPC to 12X ST UPC
- Indoor multimode OM4
- Plenum (OFNP) rated cable
- 6.2mm 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, including the PE3FCA421-5M 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 longer transmission distances and higher bandwidth, the Pasternack PE3FCA421-5M indoor OM4 fiber optic breakout assembly supports 10Gb Ethernet up to 550 meters and 40G/100G Ethernet up to 150 meters. Built with a tight buffered aramid yarn strength member, this 12-fiber multimode assembly features LC UPC to ST UPC connectors, a 6.2mmmm overall cable diameter, and a 2.0mm breakout diameter, ensuring superior durability and performance. The aqua-colored Plenum (OFNP) rated jacket is suitable for wall, ceiling, conduits, and between buildings, making it a reliable choice for data centers, telecom networks, and high-performance computing environments.

With a bandwidth of 4700MHz·km, Pasternack's PE3FCA421-5M OM4 fiber optic cable delivers low attenuation and high-speed performance for mission-critical applications. Its 46.5mm (7.5D) minimum bend radius and 0°C to 60°C operating temperature provide the flexibility needed for indoor routing, structured cabling, and conduit installations. Designed for hyperscale data centers and telecom backbones, this fiber optic assembly ensures seamless network connectivity with minimal signal loss. 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.

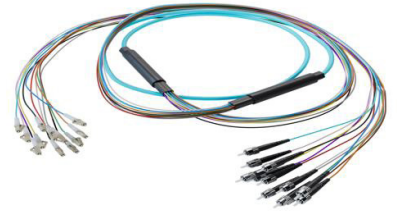
Configuration

| | |
|---------------------|--------------------|
| Function | Breakout |
| Cable Type | 12-Fiber Multimode |
| Mode | Multimode |
| Mode Class | OM4 |
| Fiber Diameter | 50/125 um |
| Connection 1 Type | LC |
| Connection 1 Polish | UPC |
| Connection 2 Type | ST |
| Connection 2 Polish | UPC |
| Cable Color | Aqua Blue |

Optical Specifications

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

12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-5M



PE3FCA421-5M

Optical Specifications

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

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Length | 5 m [196.85 in] |
| Width/Diameter | 6.2 mm |
| Weight | 155.13 g [0.342 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 | ST |
| Connector Polish | UPC | UPC |

Environmental Specifications

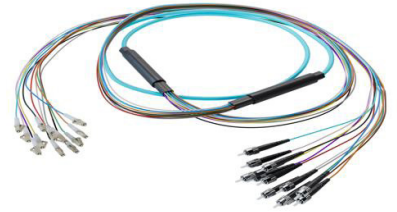
| | |
|--------------------------------|------------------|
| Operating Range Temperature | 0 to +60 deg C |
| Storage Range Temperature | -20 to +60 deg C |
| Ingress Protection (IP) Rating | Non-Rated |

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

Plotted and Other Data

Notes:

12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-5M



PE3FCA421-5M

Typical Performance Data

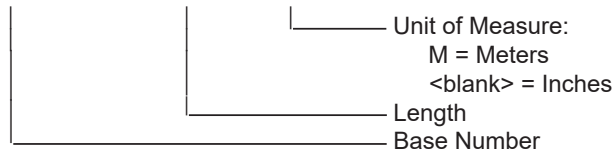
How to Order

Part Number Configuration:

PE3FCA421

- xx

uu



Example: PE3FCA421-12 = 12 inches long cable
PE3FCA421-100cm = 100 cm long cable

12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-5M 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.

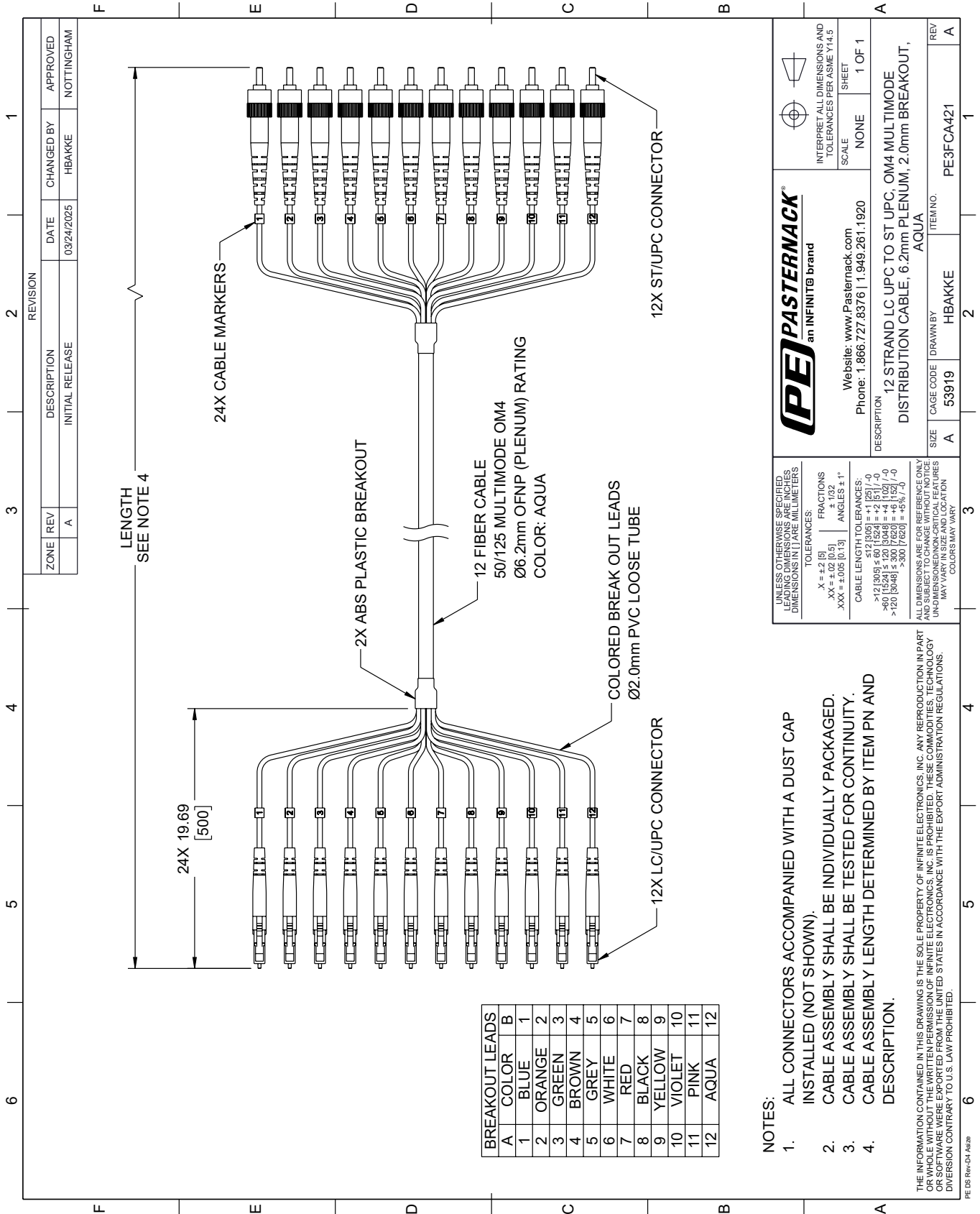
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-5M PE3FCA421-5M](https://www.pasternack.com/lc-st-multimode-upc-fiber-optic-cable-assembly-pe3fca421-5m-p.aspx)

URL: <https://www.pasternack.com/lc-st-multimode-upc-fiber-optic-cable-assembly-pe3fca421-5m-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 implement 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.

PE3FCA421-5M CAD Drawing

12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-5M



| | | | |
|--|------------------|--|---------------------|
| | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 | |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | DESCRIPTION: 12 STRAND LC UPC TO ST UPC, OM4 MULTIMODE DISTRIBUTION CABLE, 6.2mm PLENUM, 2.0mm BREAKOUT, AQUA | |
| SIZE: A | CAGE CODE: 53919 | DRAWN BY: HBAKKE | ITEM NO.: PE3FCA421 |
| UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS. | | ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY. | |
| TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13] | | FRACTIONS: ± 1/32 ANGLES ± 1° | |
| CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±5% / -0 | | | |

NOTES:

- ALL CONNECTORS ACCOMPANIED WITH A DUST CAP INSTALLED (NOT SHOWN).
- CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED.
- CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Aug20