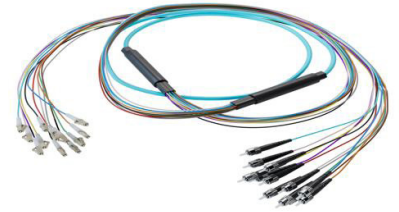


12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-15M



PE3FCA421-15M

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 PE3FCA421-15M 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 PE3FCA421-15M 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 PE3FCA421-15M 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.

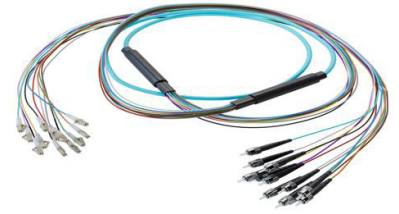
Configuration

| | |
|---------------------|--------------------|
| 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-15M



PE3FCA421-15M

Optical Specifications

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

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Length | 15 m [590.55 in] |
| Width/Diameter | 6.2 mm |
| Weight | 218.63 g [0.482 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 |

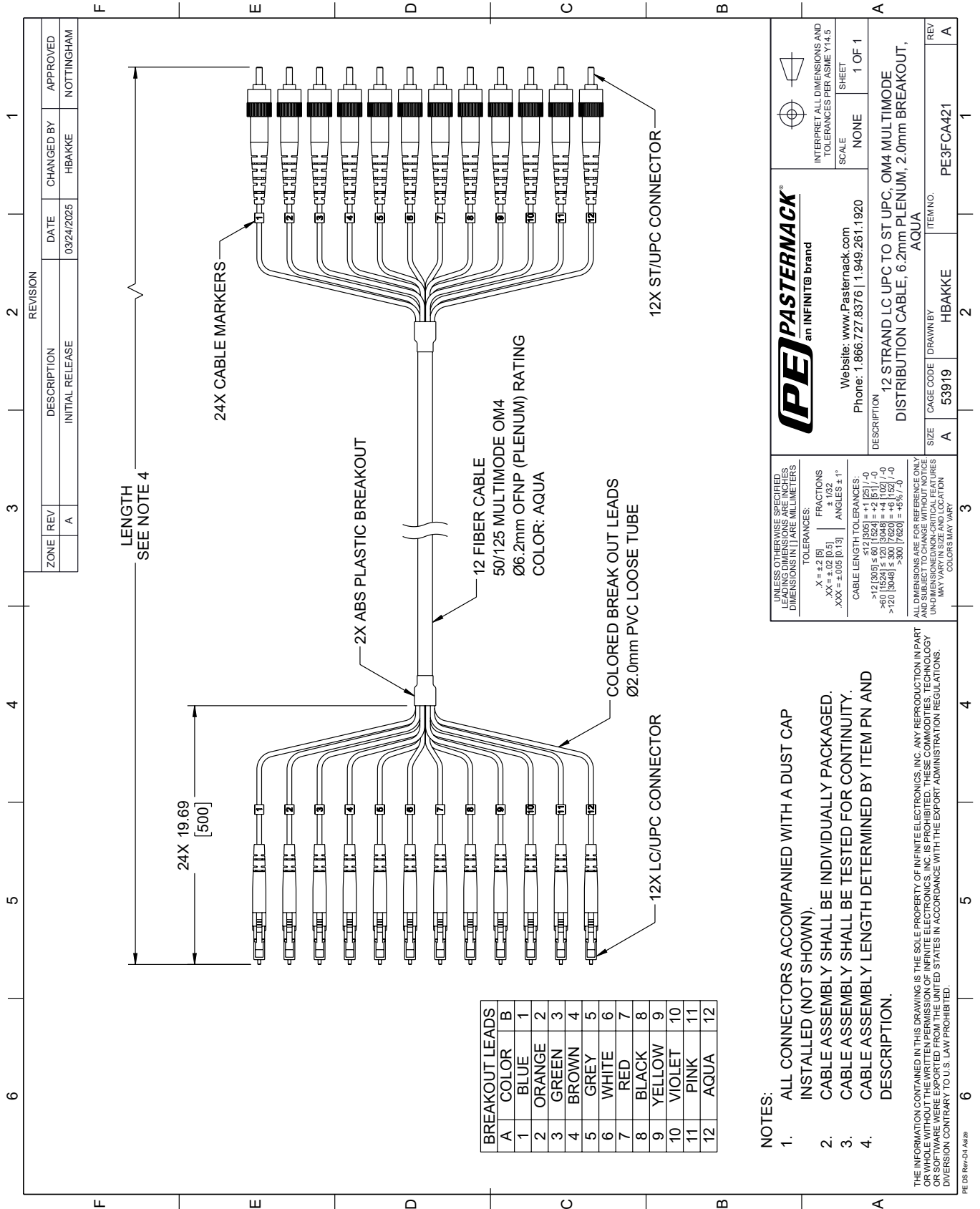
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

PE3FCA421-15M CAD Drawing

12-Fiber LC UPC to ST UPC, OM4 Multimode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Aqua-15M



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|------------|
| | A | INITIAL RELEASE | 03/24/2025 | HBAKKE | NOTTINGHAM |

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.

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

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

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 REV A

- 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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