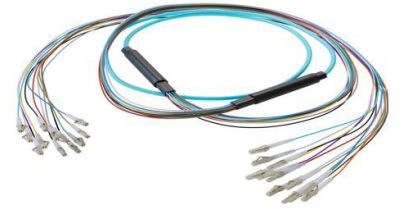


12-Fiber LC UPC to LC UPC, OM4 Multimode Distribution Cable, 6.2mm Riser, 2.0mm breakout, Aqua-25M



PE3FCA416-25M

Features

- 12X LC UPC to 12X LC UPC
- Indoor multimode OM4
- Riser (OFNR) rated cable
- 6.2mm with tight buffer and aramid yarn strength member
- 2mm TIA 598 color coded, .5M breakout
- Suitable for ceilings and riser areas

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 PE3FCA416-25M 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 PE3FCA416-25M 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 LC UPC connectors, a 6.2mmmm overall cable diameter, and a 2.0mm breakout diameter, ensuring superior durability and performance. The aqua-colored Riser (OFNR) rated jacket is suitable for ceilings and riser areas, making it a reliable choice for data centers, telecom networks, and high-performance computing environments.

With a bandwidth of 4700MHz·km, Pasternack's PE3FCA416-25M OM4 fiber optic cable delivers low attenuation and high-speed performance for mission-critical applications. Its 46.5mm (7.5D) minimum bend radius and -20°C to 70°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.

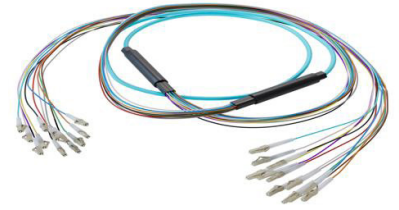
Configuration

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	LC
Connection 2 Polish	UPC
Cable Color	Aqua Blue

Optical Specifications

Description	Minimum	Typical	Maximum	Units
Return Loss	30			dB

12-Fiber LC UPC to LC UPC, OM4 Multimode Distribution Cable, 6.2mm Riser, 2.0mm breakout, Aqua-25M



PE3FCA416-25M

Optical Specifications

Description	Minimum	Typical	Maximum	Units
Insertion Loss			0.3	dB

Mechanical Specifications

Cable Assembly

Length	25 m [984.25 in]
Width/Diameter	6.2 mm
Weight	254.92 g [0.562 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	UPC	UPC

Environmental Specifications

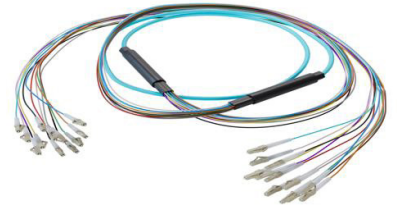
Operating Range Temperature	-20 to +70 deg C
Storage Range Temperature	-40 to +70 deg C
Ingress Protection (IP) Rating	Non-Rated

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

Plotted and Other Data

Notes:

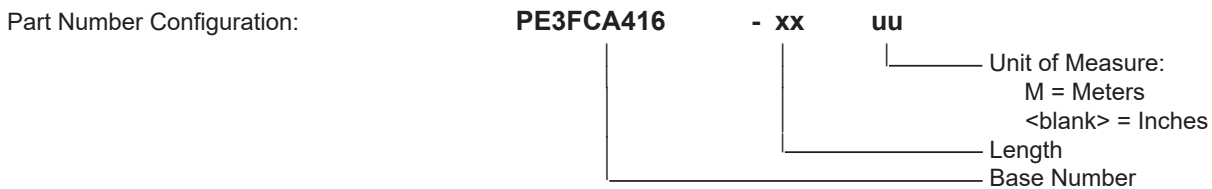
12-Fiber LC UPC to LC UPC, OM4 Multimode Distribution Cable, 6.2mm Riser, 2.0mm breakout, Aqua-25M



PE3FCA416-25M

Typical Performance Data

How to Order



Example: PE3FCA416-12 = 12 inches long cable
 PE3FCA416-100cm = 100 cm long cable

12-Fiber LC UPC to LC UPC, OM4 Multimode Distribution Cable, 6.2mm Riser, 2.0mm breakout, Aqua-25M 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.

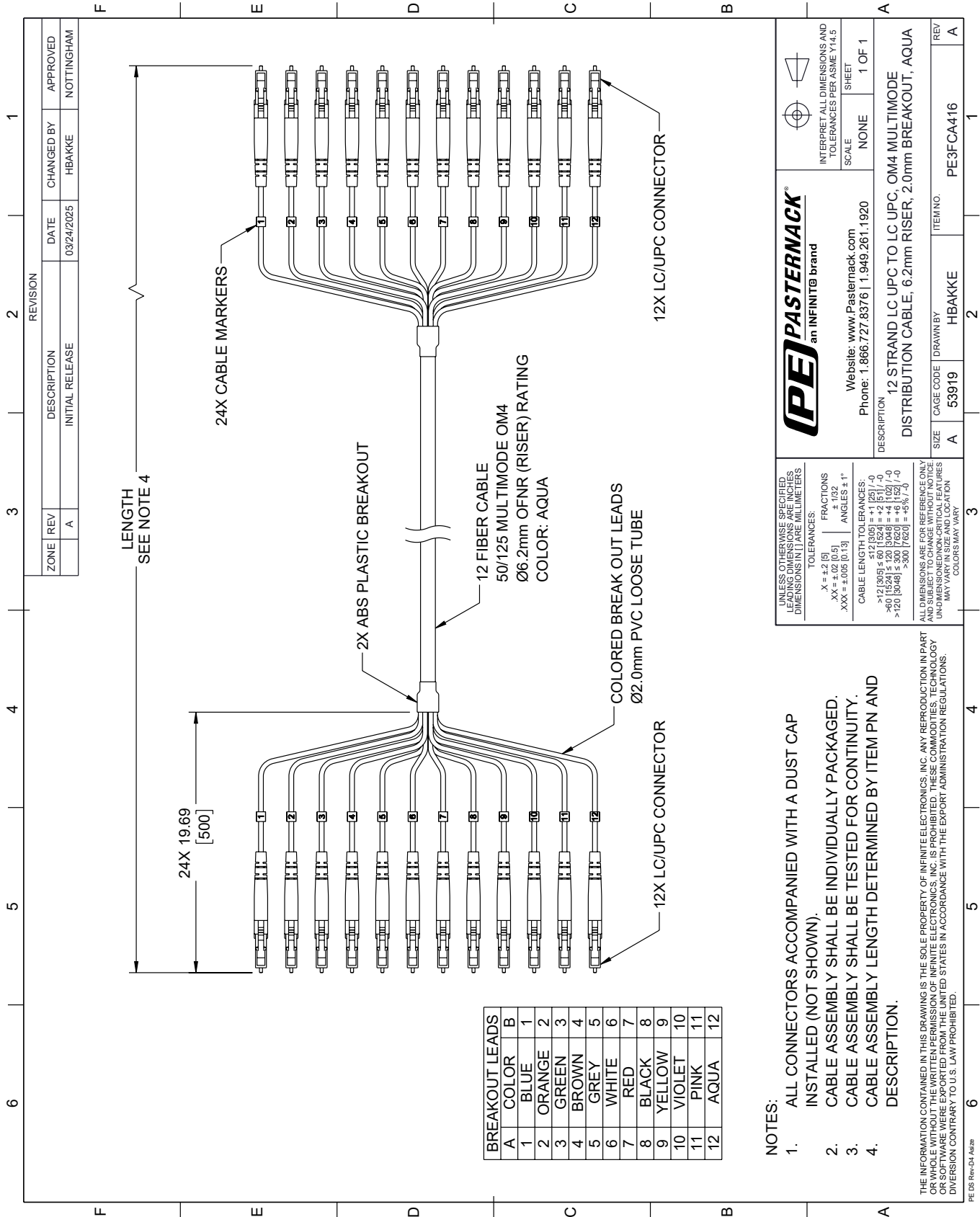
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [12-Fiber LC UPC to LC UPC, OM4 Multimode Distribution Cable, 6.2mm Riser, 2.0mm breakout, Aqua-25M PE3FCA416-25M](https://www.pasternack.com/lc-lc-multimode-upc-fiber-optic-cable-assembly-pe3fca416-25m-p.aspx)

URL: <https://www.pasternack.com/lc-lc-multimode-upc-fiber-optic-cable-assembly-pe3fca416-25m-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.

PE3FCA416-25M CAD Drawing

12-Fiber LC UPC to LC UPC, OM4 Multimode Distribution Cable, 6.2mm Riser, 2.0mm breakout, Aqua-25M



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

LENGTH SEE NOTE 4

24X 19.69 [500]

BREAKOUT LEADS	A	B
1	BLUE	1
2	ORANGE	2
3	GREEN	3
4	BROWN	4
5	GREY	5
6	WHITE	6
7	RED	7
8	BLACK	8
9	YELLOW	9
10	VIOLET	10
11	PINK	11
12	AQUA	12

NOTES:

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

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE 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, ALL DIMENSIONS ARE NON-CRITICAL FEATURES. MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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Website: www.Pasternack.com
 Phone: 1.866.727.8376 | 1.949.261.1920

SCALE: NONE
SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: 12 STRAND LC UPC TO LC UPC, OM4 MULTIMODE DISTRIBUTION CABLE, 6.2mm RISER, 2.0mm BREAKOUT, AQUA

REV	DESCRIPTION	DATE	BY	CHKD
A	53919		HBAKKE	