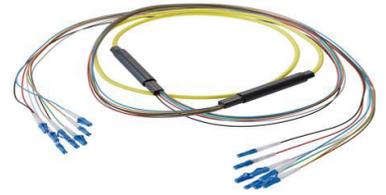


8-Fiber LC UPC to LC UPC, OS2 Single Mode Distribution Cable, 5.6mm Riser, 2.0mm breakout, Yellow-15M



PE3FCA381-15M

Features

- 8X LC UPC to 8X LC UPC
- Indoor single mode OS2
- Riser (OFNR) rated cable
- 5.6mm 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 PE3FCA381-15M 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 long-distance and high-speed transmission, the Pasternack PE3FCA381-15M 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 LC UPC to LC UPC fiber optic distribution assembly ensures minimal signal loss for campus networks, metro Ethernet, and telecom infrastructure. The yellow Riser (OFNR) 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 PE3FCA381-15M OS2 fiber optic cable is designed for indoor environments, supporting ceilings and riser areas. The 5.6mm 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.

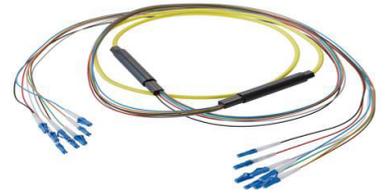
Configuration

| | |
|---------------------|---------------------|
| Function | Breakout |
| Cable Type | 8-Fiber Single Mode |
| Mode | Single Mode |
| Mode Class | OS2 |
| Fiber Diameter | 9/125 um |
| Connection 1 Type | LC |
| Connection 1 Polish | UPC |
| Connection 2 Type | LC |
| Connection 2 Polish | UPC |
| Cable Color | Yellow |

Optical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|---------|---------|-------|
| Return Loss | 50 | | | dB |

8-Fiber LC UPC to LC UPC, OS2 Single Mode Distribution Cable, 5.6mm Riser, 2.0mm breakout, Yellow-15M



PE3FCA381-15M

Optical Specifications

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

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Width/Diameter | 5.6 mm |
| Weight | 166.92 g [0.368 lbs] |

Cable

| | |
|--|----------|
| Cable Type | Breakout |
| Static Bend Radius | 42 mm |
| Dynamic Bend Radius | 84 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

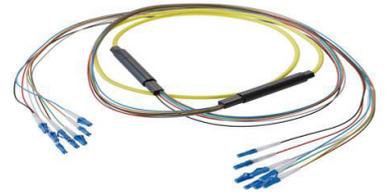
| | |
|--------------------------------|------------------|
| Operating Range Temperature | -20 to +70 deg C |
| Storage Range Temperature | -40 to +70 deg C |
| Ingress Protection (IP) Rating | Non-Rated |

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

Plotted and Other Data

Notes:

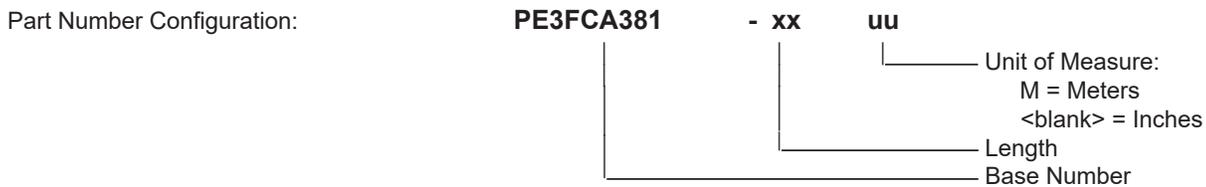
8-Fiber LC UPC to LC UPC, OS2 Single Mode Distribution Cable, 5.6mm Riser, 2.0mm breakout, Yellow-15M



PE3FCA381-15M

Typical Performance Data

How to Order



Example: PE3FCA381-12 = 12 inches long cable
 PE3FCA381-100cm = 100 cm long cable

8-Fiber LC UPC to LC UPC, OS2 Single Mode Distribution Cable, 5.6mm Riser, 2.0mm breakout, Yellow-15M 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.

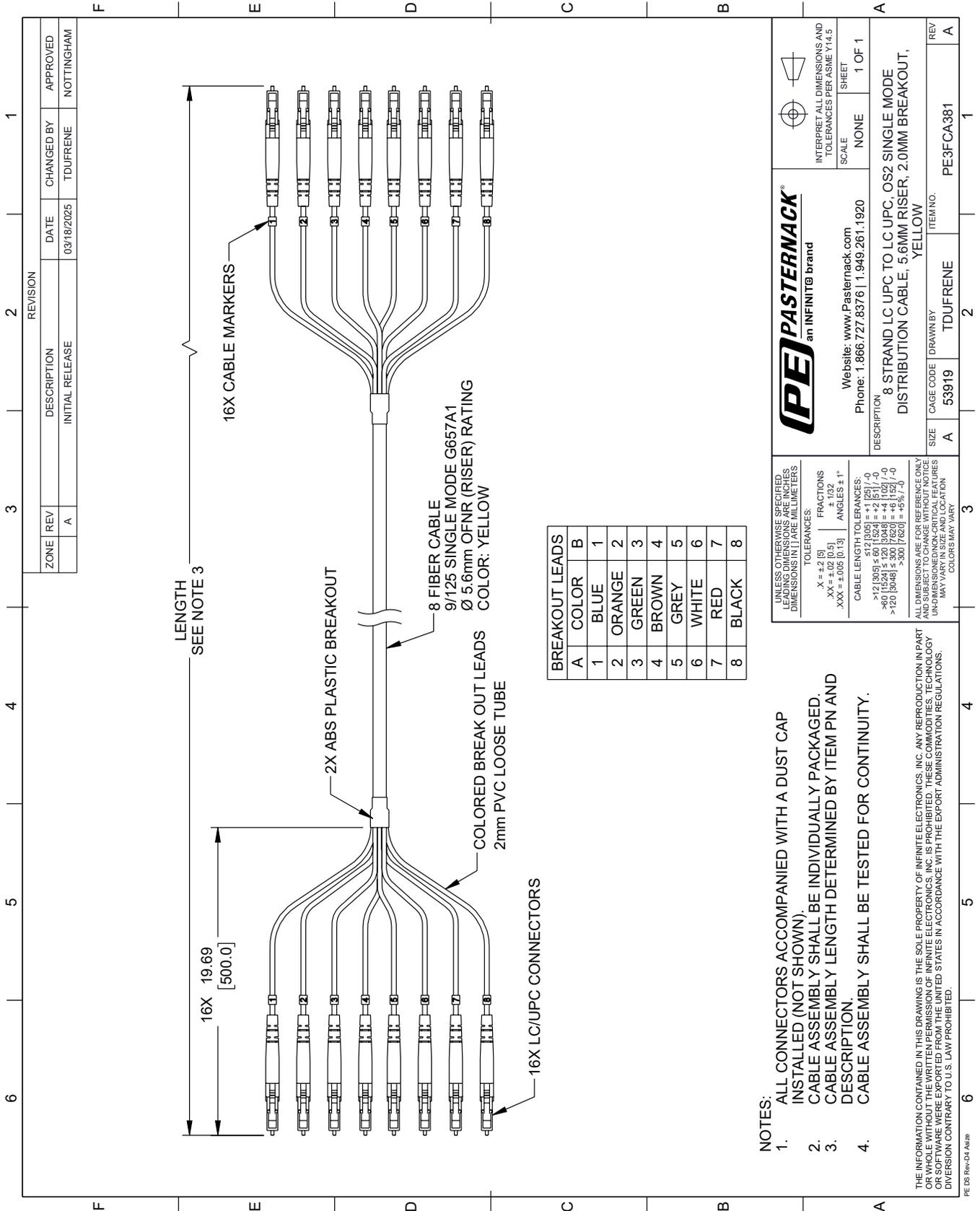
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [8-Fiber LC UPC to LC UPC, OS2 Single Mode Distribution Cable, 5.6mm Riser, 2.0mm breakout, Yellow-15M PE3FCA381-15M](#)

URL: <https://www.pasternack.com/lc-lc-single-mode-upc-fiber-optic-cable-assembly-pe3fca381-15m-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.

PE3FCA381-15M CAD Drawing

8-Fiber LC UPC to LC UPC, OS2 Single Mode Distribution Cable, 5.6mm Riser, 2.0mm breakout, Yellow-15M



LENGTH
SEE NOTE 3

16X CABLE MARKERS

2X ABS PLASTIC BREAKOUT

8 FIBER CABLE
9/125 SINGLE MODE G657A1
Ø 5.6mm OFNR (RISER) RATING
COLOR: YELLOW

COLORED BREAK OUT LEADS
2mm PVC LOOSE TUBE

16X LC/UPC CONNECTORS

| 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 |

NOTES:

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

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

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] = ±.6 [152] / -0
 ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

PE PASTERNAK
an INFINITO brand

Website: www.Pasternack.com
 Phone: 1.866.727.8376 | 1.949.281.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
 SCALE NONE
 SHEET 1 OF 1

DESCRIPTION
 8 STRAND LC UPC TO LC UPC, OS2 SINGLE MODE DISTRIBUTION CABLE, 5.6MM RISER, 2.0MM BREAKOUT, YELLOW

| | | | | | | | |
|------|---|-----------|-------|----------|----------|----------|-----------|
| SIZE | A | CAGE CODE | 53919 | DRAWN BY | TDUFRENE | ITEM NO. | PE3FCA381 |
| REV | A | | | | | | |