

## Fiber Optic Patch Cable, Duplex ST UPC to ST UPC, SM OS2, 2.0mm Riser, Yellow-3M



### PE3FCA542-3M

#### Features

- Single Mode OS2 indoor fiber optic cable assembly
- Dual ST UPC to Dual ST UPC
- Indoor Riser (OFNR) cable
- Suitable for ceilings and riser areas
- 2.0mm x 4.1mm duplex zip-cord
- Custom lengths available with the same fast delivery

#### Applications

- Telecom & Networking
- Data Centers
- Enterprise and Corporate Networks
- Broadcasting & Media Production
- Military & Defense
- Healthcare & Medical Imaging
- Transportation & Rail
- Oil & Gas

#### Description

The PE3FCA542-3M fiber optic patch cord from Pasternack is a robust and versatile fiber optic cable assembly designed for high-performance data transmission in various environments. Equipped with Dual ST UPC to Dual ST UPC connectors, this duplex OS2 Single Mode fiber optic patch cable is optimized for indoor use, featuring a Riser (OFNR) that ensures compliance with fire and safety standards. The 2.0mm x 4.1mm diameter construction, combined with its yellow color, makes it easy to identify in complex setups, while its operating temperature range of -20°C to 70°C and storage temperature of -40°C to 70°C provides reliable performance across diverse conditions.

Pasternack's PE3FCA542-3M fiber optic jumper is ideal for applications where reliable, long-range data connectivity is critical. The single mode design of the OS2 fiber offers stable, high-speed transmission over long distances, making it suitable for Telecom & Networking, Data Centers, and Corporate Networks. With the flexibility of custom lengths, the Pasternack PE3FCA542-3M fiber optic assembly can be tailored to meet specific installation requirements, ensuring efficient network management in high-density setups without compromising on delivery time or quality.

Beyond networking, the Pasternack PE3FCA542-3M fiber patch cord supports an array of industry applications, from Broadcasting & Media Production and Military & Defense to Healthcare & Medical Imaging. This fiber assembly offers a reliable and durable solution for any setting requiring high-quality data transmission in a controlled, indoor environment. For further information on similar fiber optic products, our expert technical support and trained sales team can get you the ideal fiber optic duplex cable assembly as per your requirements.

#### Configuration

Function	Patch
Cable Type	Duplex Singlemode
Mode	Single Mode
Mode Class	OS2
Fiber Diameter	9/125 um
Connection 1 Type	ST
Connection 1 Polish	UPC
Connection 2 Type	ST
Connection 2 Polish	UPC
Cable Color	Yellow

#### Optical Specifications

Description	Minimum	Typical	Maximum	Units
Return Loss	30			dB

Fiber Optic Patch Cable, Duplex ST UPC to ST  
UPC, SM OS2, 2.0mm Riser, Yellow-3M



## PE3FCA542-3M

### Optical Specifications

Description	Minimum	Typical	Maximum	Units
Insertion Loss			0.3	dB

### Mechanical Specifications

#### Cable Assembly

Length	3 m [118.11 in]
Width/Diameter	2 mm
Weight	21.32 g [0.047 lbs]

#### Cable

Cable Type	Patch
Static Bend Radius	30 mm
Dynamic Bend Radius	15 mm
Max Crush Resistance, Short Term (N/100mm)	300
Max Crush Resistance, Long Term (N/100mm)	100

### Connectors

Description	Connector 1	Connector 2
Type	ST	ST
Connector Polish	UPC	UPC

### Environmental Specifications

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

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

DFARS Compliant	70
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### Plotted and Other Data

Notes:



Fiber Optic Patch Cable, Duplex ST UPC to ST  
UPC, SM OS2, 2.0mm Riser, Yellow-3M

## PE3FCA542-3M

### Typical Performance Data

### How to Order

Part Number Configuration:

**PE3FCA542**

**- xx**

**uu**

Unit of Measure:

M = Meters

<blank> = Inches

Length

Base Number

Example: PE3FCA542-12 = 12 inches long cable  
PE3FCA542-100cm = 100 cm long cable

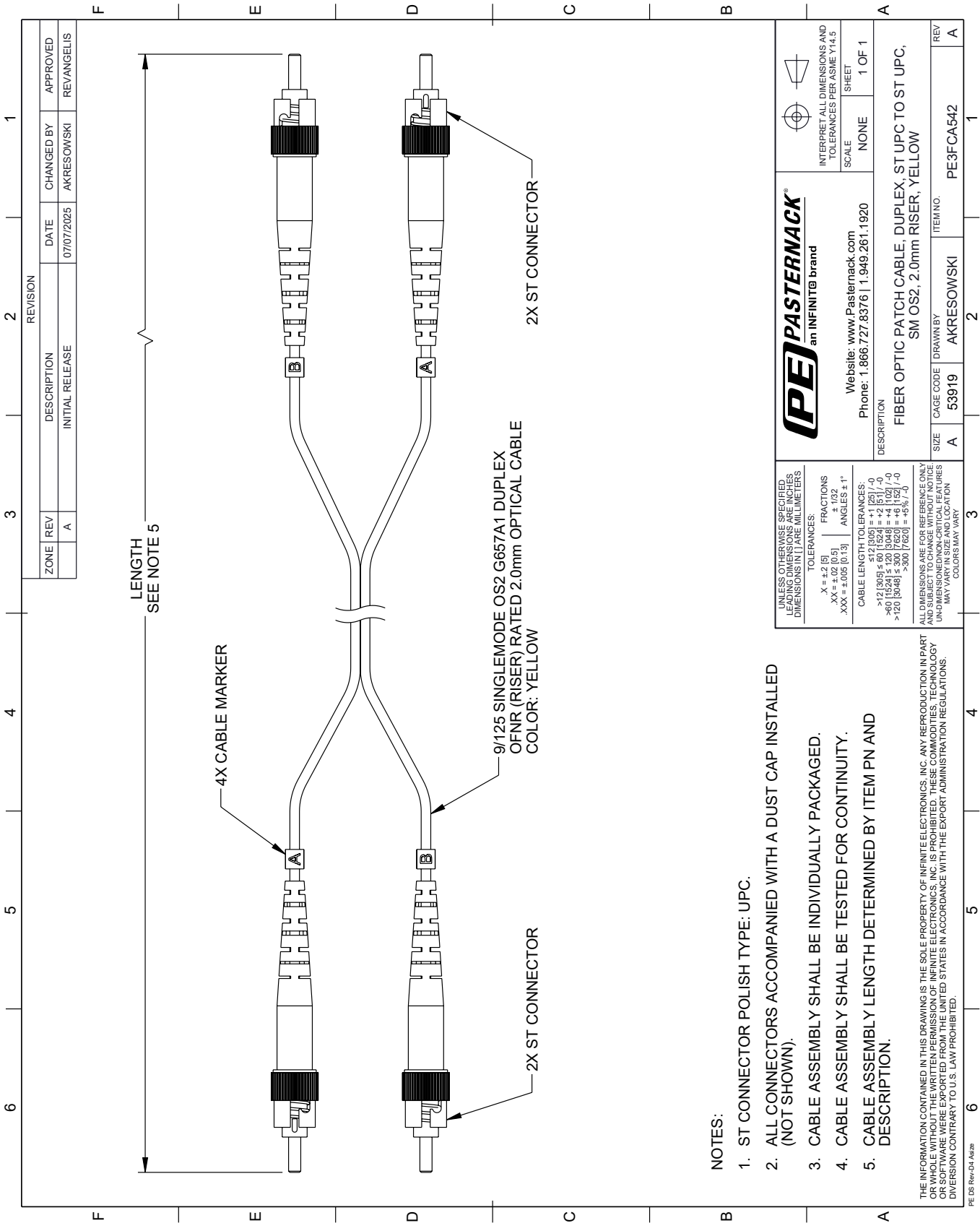
Fiber Optic Patch Cable, Duplex ST UPC to ST UPC, SM OS2, 2.0mm Riser, Yellow-3M from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fiber Optic Patch Cable, Duplex ST UPC to ST UPC, SM OS2, 2.0mm Riser, Yellow-3M PE3FCA542-3M](#)

URL: <https://www.pasternack.com/st-st-single-mode-9-125-sm-duplex-riser-fiber-patch-cable-fiber-optic-cable-assembly-pe3fca542-3m-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.

PE3FCA542-3M CAD Drawing
Fiber Optic Patch Cable, Duplex ST UPC to ST UPC, SM OS2, 2.0mm Riser, Yellow-3M



- NOTES:
- 1. ST CONNECTOR POLISH TYPE: UPC.
  - 2. ALL CONNECTORS ACCOMPANIED WITH A DUST CAP INSTALLED (NOT SHOWN).
  - 3. CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED.
  - 4. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
  - 5. 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		<b>PE PASTERNAK</b> an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a>		SCALE	
X = ±.2 [5]		Phone: 1.866.727.8376   1.949.261.1920		NONE	
.XX = ±.02 [0.5]		DESCRIPTION		SHEET	
.XXX = ±.005 [0.13]		FIBER OPTIC PATCH CABLE; DUPLEX, ST UPC TO ST UPC, SM OS2, 2.0mm RISER, YELLOW		1 OF 1	
FRACTIONS		SIZE		CAGE CODE	
± 1/32		A		53919	
ANGLES ± 1°		DRAWN BY		AKRESOWSKI	
CABLE LENGTH TOLERANCES:		ITEM NO.		PE3FCA542	
≤ 12 [305] = ±.01 [25] / -0		REV		A	
≤ 60 [1524] = ±.02 [51] / -0		DESCRIPTION		FIBER OPTIC PATCH CABLE; DUPLEX, ST UPC TO ST UPC, SM OS2, 2.0mm RISER, YELLOW	
≤ 120 [3048] = ±.04 [102] / -0		CAGE CODE		53919	
≤ 300 [7620] = ±.06 [152] / -0		ITEM NO.		PE3FCA542	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/UNCALL-OUTED FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		DRAWN BY		AKRESOWSKI	