

Fiber Optic Patch Cable, Duplex ST UPC to ST UPC, SM OS2, 2.0mm LSZH, Yellow-1M



PE3FCA543-1M

Features

- Single Mode OS2 indoor fiber optic cable assembly
- Dual ST UPC to Dual ST UPC
- Indoor Low Smoke Zero Halogen (LSZH) cable
- Suitable for confined installations where flame resistance is required
- 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 PE3FCA543-1M 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 Low Smoke Zero Halogen (LSZH) 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 PE3FCA543-1M 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 PE3FCA543-1M 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 PE3FCA543-1M 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 |

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Optical Specifications

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

Mechanical Specifications

Cable Assembly

| | |
|----------------|---------------------|
| Length | 1 m [39.37 in] |
| Width/Diameter | 2 mm |
| Weight | 16.78 g [0.037 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 |
|-----------------|----|

Plotted and Other Data

Notes:

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PE3FCA543-1M

Typical Performance Data

How to Order

Part Number Configuration:

PE3FCA543

- **xx**

uu

Unit of Measure:

M = Meters

<blank> = Inches

Length

Base Number

Example: PE3FCA543-12 = 12 inches long cable
PE3FCA543-100cm = 100 cm long cable

Fiber Optic Patch Cable, Duplex ST UPC to ST UPC, SM OS2, 2.0mm LSZH, Yellow-1M 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.

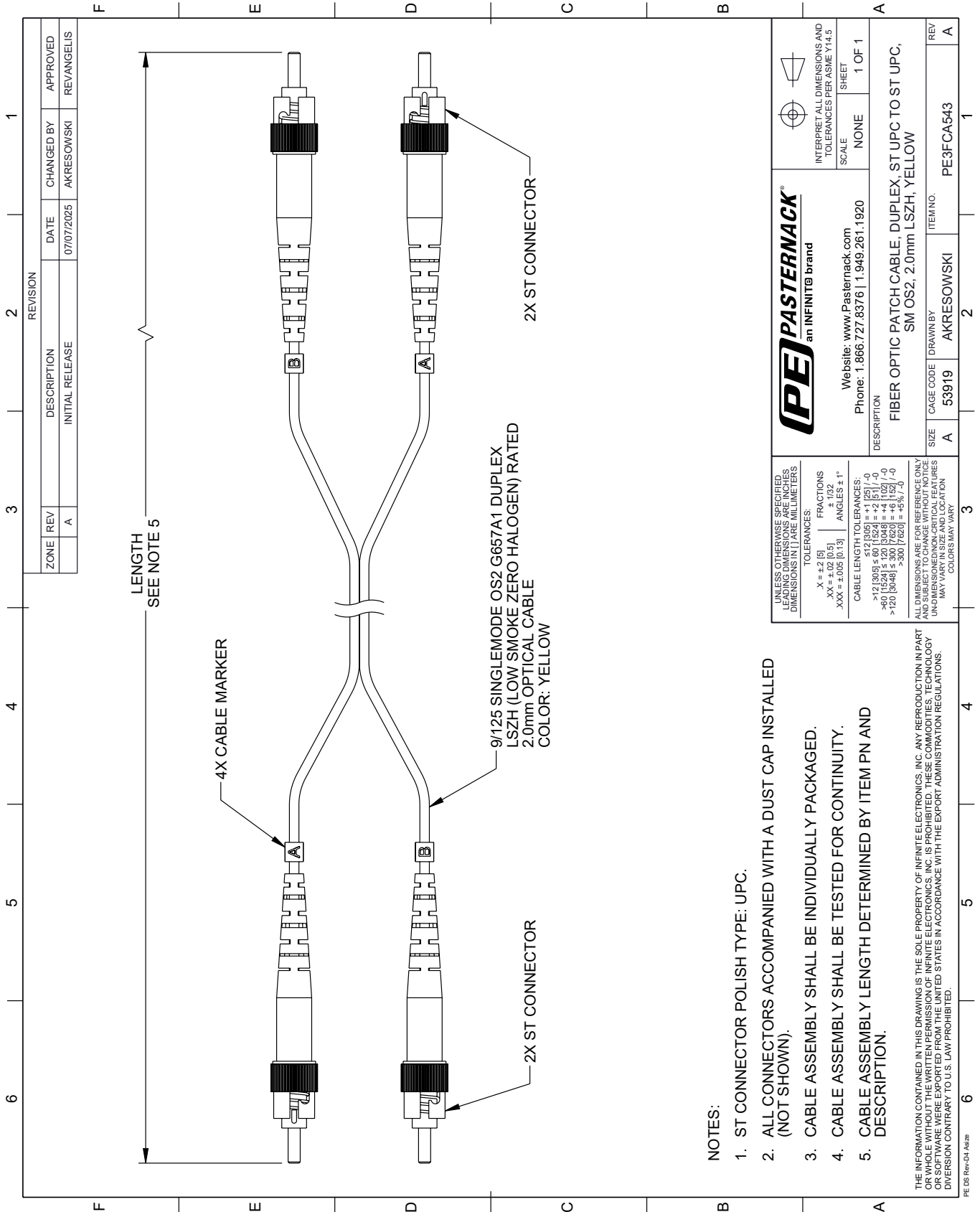
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fiber Optic Patch Cable, Duplex ST UPC to ST UPC, SM OS2, 2.0mm LSZH, Yellow-1M PE3FCA543-1M](https://www.pasternack.com/st-st-single-mode-9-125-sm-duplex-lszh-fiber-patch-cable-fiber-optic-cable-assembly-pe3fca543-1m-p.aspx)

URL: <https://www.pasternack.com/st-st-single-mode-9-125-sm-duplex-lszh-fiber-patch-cable-fiber-optic-cable-assembly-pe3fca543-1m-p.aspx>

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PE3FCA543-1M CAD Drawing




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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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|  <p>an INFINITE brand</p> | |   |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 |
| DESCRIPTION: FIBER OPTIC PATCH CABLE, DUPLEX, ST UPC TO ST UPC, SM OS2, 2.0mm LSZH, YELLOW | | |
| SIZE: A | CAGE CODE: 53919 | DRAWN BY: AKRESOWSKI |
| ITEM NO.: PE3FCA543 | | REV: A |

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 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0
 >300 [7620] = ±.8 [20.3] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.