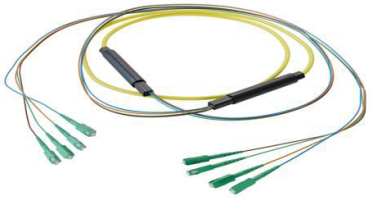
# 4-Fiber SC APC to SC APC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Riser, 2.0mm breakout, Yellow



## PE3FCA250

### Features

- 4X SC APC to 4X SC APC
- Indoor single mode OS2
- Riser (OFNR) rated cable
- 4.5mm 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 PE3FCA250 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 PE3FCA250 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 SC APC to SC APC fiber optic distribution assembly 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 33.75mm (7.5D) minimum bend radius provide maximum durability and performance.

With an operating temperature range of -20°C to 70°C, Pasternack's PE3FCA250 OS2 fiber optic cable is designed for indoor environments, supporting ceilings and riser areas. The 4.5mm 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 | 6-Fiber Single Mode |
| Mode | Single Mode |
| Mode Class | OS2 |
| Fiber Diameter | 9/125 um |
| Connection 1 Type | SC |
| Connection 1 Polish | APC |
| Connection 2 Type | SC |
| Connection 2 Polish | APC |
| Cable Color | Yellow |

### Optical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Return Loss | 60 | | | dB |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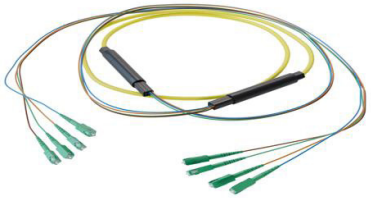

## PE3FCA250

### Optical Specifications

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

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Length | 0 mm [0.00 in] |
| Width/Diameter | 4.5 mm |
| Weight | 61.69 g [0.136 lbs] |

**Cable**

| | |
|---|---|
| Cable Type | Breakout |
| Static Bend Radius | 34 mm |
| Dynamic Bend Radius | 67 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 | SC | SC |
| Connector Polish | APC | APC |

### 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:


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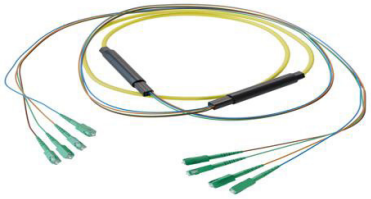

## PE3FCA250

### Typical Performance Data

### How to Order

Part Number Configuration: **PE3FCA250 - xx uu**

- **uu** — Unit of Measure:
  - M = Meters
  - <blank> = Inches
- **xx** — Length
- **PE3FCA250** — Base Number

Example: PE3FCA250-12 = 12 inches long cable
PE3FCA250-100cm = 100 cm long cable

4-Fiber SC APC to SC APC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Riser, 2.0mm breakout, Yellow 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: 4-Fiber SC APC to SC APC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Riser, 2.0mm breakout, Yellow PE3FCA250

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# PE3FCA250 CAD Drawing

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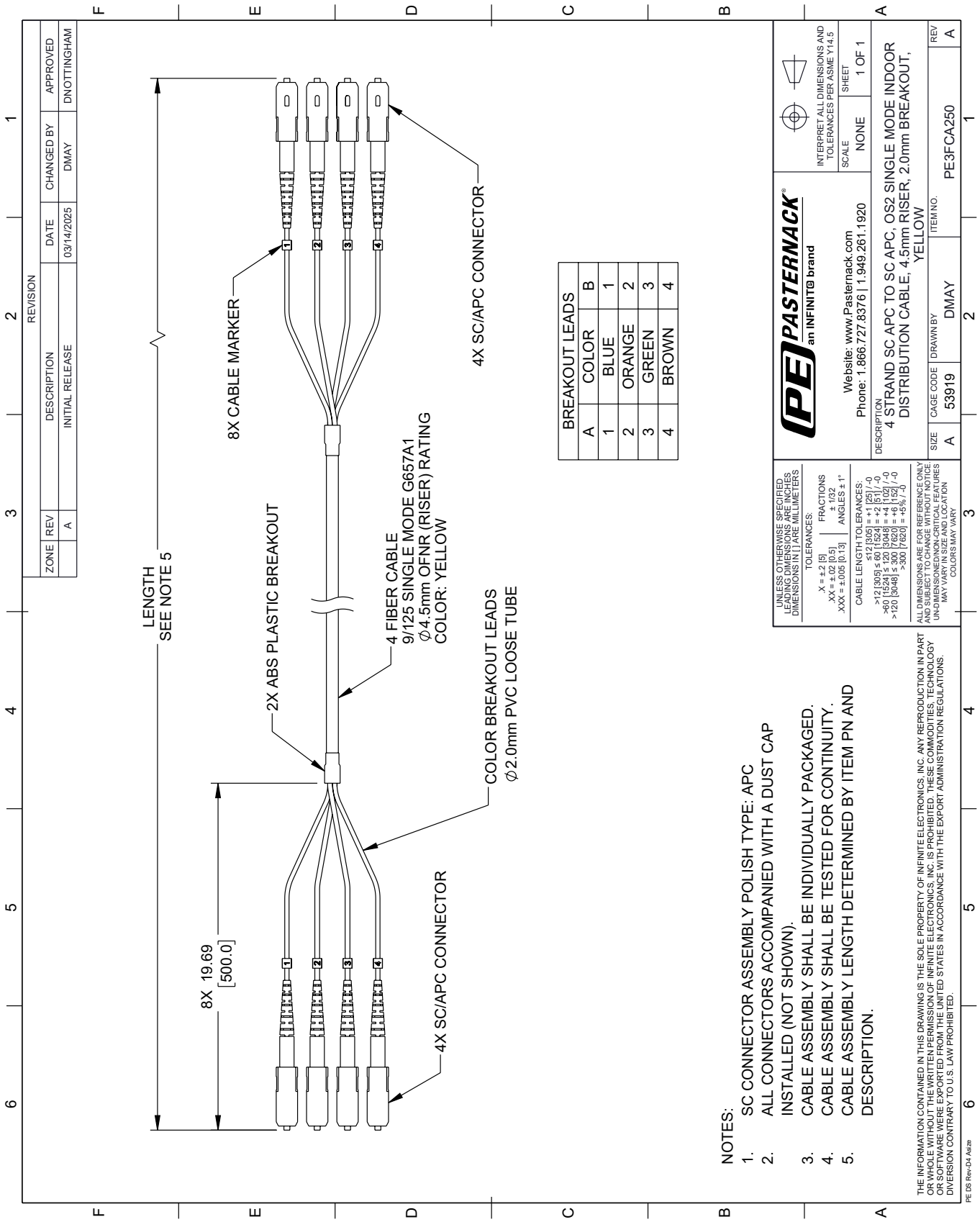




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