6-Fiber SC UPC to ST UPC, OM4 Multimode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Aqua

PE3FCA297

Features

- 6X SC UPC to 6X ST UPC
- Indoor multimode OM4
- Low Smoke Zero Halogen (LSZH) rated cable
- 5.0mm with tight buffer and aramid yarn strength member
- 2mm TIA 598 color coded, .5M breakout
- Suitable for confined installations where flame resistance is required

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 PE3FCA297 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 PE3FCA297 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 6-fiber multimode assembly features SC UPC to ST UPC connectors, a 5.0mmmm overall cable diameter, and a 2.0mm breakout diameter, ensuring superior durability and performance. The aqua-colored Low Smoke Zero Halogen (LSZH) rated jacket is suitable for confined installations where flame resistance is required, making it a reliable choice for data centers, telecom networks, and high-performance computing environments.

With a bandwidth of 4700MHz·km, Pasternack's PE3FCA297 OM4 fiber optic cable delivers low attenuation and high-speed performance for mission-critical applications. Its 37.5mm (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	6 Fiber Multimode
Mode	Multimode
Mode Class	OM4
Fiber Diameter	50/125 um
Connection 1 Type	SC
Connection 1 Polish	UPC
Connection 2 Type	ST
Connection 2 Polish	UPC
Cable Color	Aqua Blue

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	0 mm [0.00 in]
Width/Diameter	5 mm
Weight	78.93 g [0.174 lbs]

Cable

Cable Type	Breakout
Static Bend Radius	37 mm
Dynamic Bend Radius	75 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	ST
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:

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PE3FCA297

Typical Performance Data

How to Order

Part Number Configuration: **PE3FCA297 - xx uu**

- **uu** — Unit of Measure:
  - M = Meters
  - <blank> = Inches
- **xx** — Length
- **PE3FCA297** — Base Number

Example: PE3FCA297-12 = 12 inches long cable
PE3FCA297-100cm = 100 cm long cable

6-Fiber SC UPC to ST UPC, OM4 Multimode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Aqua 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: 6-Fiber SC UPC to ST UPC, OM4 Multimode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Aqua PE3FCA297

URL: https://www.pasternack.com/sc-st-multimode-fiber-optic-cable-assembly-pe3fca297-p.aspx

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PE3FCA297 CAD Drawing

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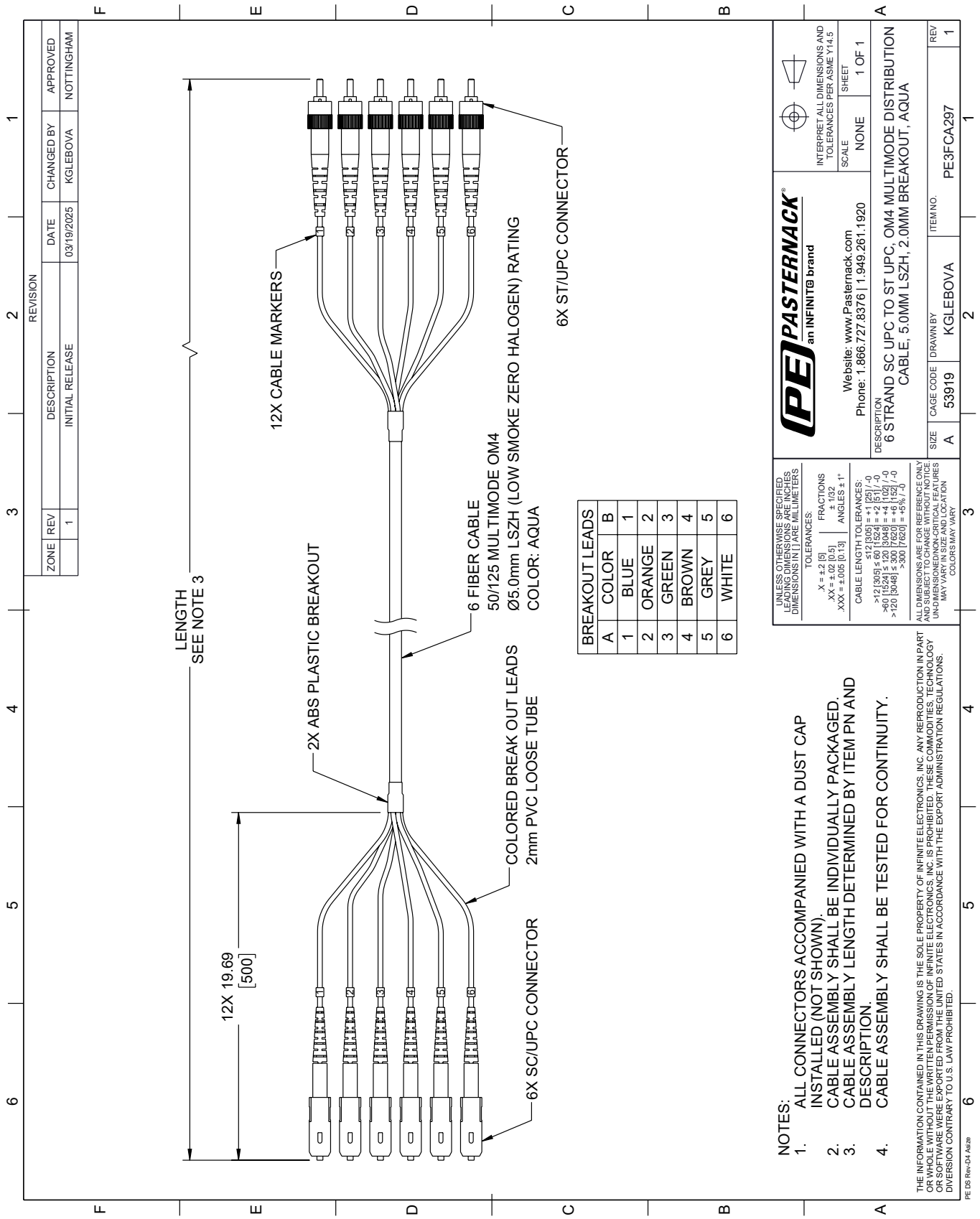

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