

6-Fiber SC UPC to ST UPC, OM3 Multimode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Aqua-15M



PE3FCA291-15M

Features

- 6X SC UPC to 6X ST UPC
- Indoor multimode OM3
- 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 PE3FCA291-15M 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.

Pasternack's OM3 indoor fiber optic distribution breakout assembly (PE3FCA291-15M) is a 6-fiber multimode cable optimized for VCSEL laser sources, making it ideal for 10Gb Ethernet up to 300 meters and 40G/100G Ethernet up to 100 meters. The SC UPC to ST UPC connectors, aqua-colored Low Smoke Zero Halogen (LSZH) jacket, and tight buffered aramid yarn reinforcement provide exceptional durability and performance. With a 5.0mm overall cable diameter, 2.0mm breakout diameter, and 37.5mm (7.5D) minimum bend radius, this assembly is well-suited for data centers, structured cabling, and high-speed networking applications.

The Pasternack PE3FCA291-15M OM3 fiber optic cable assembly offers a bandwidth of 2000MHz·km, ensuring high-speed data transmission with minimal signal loss. Designed for indoor environments, it can withstand temperatures ranging from -20°C to 70°C and is suitable for confined installations where flame resistance is required. Whether for enterprise networks, storage area networks (SANs), or high-speed backbones, this OM3 fiber assembly guarantees outstanding network performance. 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	OM3
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	15 m [590.55 in]
Width/Diameter	5 mm
Weight	142.43 g [0.314 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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PE3FCA291-15M

Typical Performance Data

How to Order

Part Number Configuration:

PE3FCA291

- xx

uu

Unit of Measure:

M = Meters

<blank> = Inches

Length

Base Number

Example: PE3FCA291-12 = 12 inches long cable
PE3FCA291-100cm = 100 cm long cable

6-Fiber SC UPC to ST UPC, OM3 Multimode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Aqua-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.

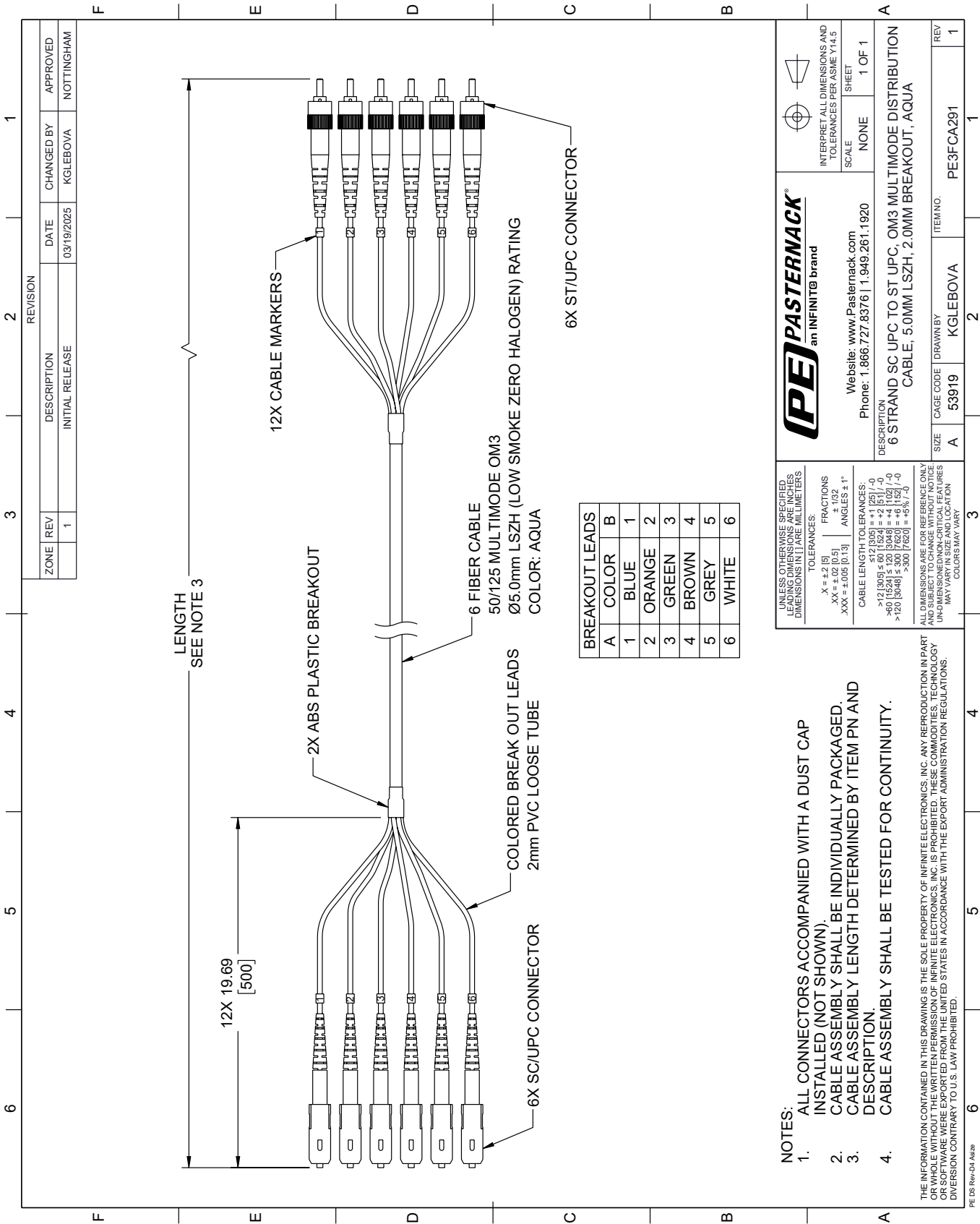
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6-Fiber SC UPC to ST UPC, OM3 Multimode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Aqua-15M PE3FCA291-15M](https://www.pasternack.com/sc-st-multimode-fiber-optic-cable-assembly-pe3fca291-15m-p.aspx)

URL: <https://www.pasternack.com/sc-st-multimode-fiber-optic-cable-assembly-pe3fca291-15m-p.aspx>

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PE3FCA291-15M CAD Drawing

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION
6 STRAND SC UPC TO ST UPC, OM3 MULTIMODE DISTRIBUTION CABLE, 5.0MM LSZH, 2.0MM BREAKOUT, AQUA

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3FCA291

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) = ±.1 (2.5) / -0
> 12 (305) ≤ 60 (1524) = ±.2 (5) / -0
> 60 (1524) ≤ 120 (3048) = ±.4 (10) / -0
> 120 (3048) ≤ 300 (7620) = ±.8 (20) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF INDIVIDUAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

- 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.
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