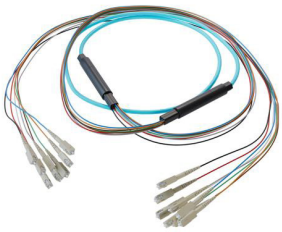
8-Fiber SC UPC to SC UPC, OM3 Multimode Distribution Cable, 5.6mm LSZH, 2.0mm breakout, Aqua-5M



FCA-8M3SCUSCUZK2-5

Features

- 8X SC UPC to 8X SC UPC
- Indoor multimode OM3
- Low Smoke Zero Halogen (LSZH) rated cable
- 5.6mm 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

L-com's FCA-8M3SCUSCUZK2-5 fiber optic distribution cable is engineered to provide reliable multimode fiber connectivity for indoor network environments. This cable assembly features an 8-fiber SC UPC to SC UPC configuration, using OM3 multimode fiber with a 50/125 µm core size. Designed with a breakout structure, it ensures organized fiber distribution, making it an ideal choice for data centers, enterprise networks, and LAN applications where multi-fiber routing and consistent signal performance are critical. The 8-fiber multimode breakout cable comes with a 5.6 mm overall diameter aqua blue low smoke zero halogen (LSZH)-rated polyethylene jacket, meeting indoor fire safety standards. Each breakout fiber measures 2.0 mm and follows TIA-598 color coding for easy identification and termination, with a 0.5 m breakout length.

This fiber optic distribution cable is constructed with tight-buffered fiber and reinforced with aramid yarn, providing excellent mechanical durability. The cable also features controlled bend radii, with a one-time bend radius of 1.654 inches and a repeated bend radius of 3.307 inches, ensuring optimal optical performance during installation and routing. The cable offers crush resistance values of 1000 N/100 mm (short-term) and 300 N/100 mm (long-term), making it highly suitable for robust indoor deployments.

The FCA-8M3SCUSCUZK2-5 OM3 5-meter fiber optic assembly uses SC UPC to SC UPC connectors, which ensure low insertion loss and stable return loss performance. The maximum insertion loss is 0.30 dB, with a minimum return loss of 30 dB. This OM3 multimode fiber assembly is perfect for applications such as Passive Optical Networks (PON), storage and cloud-based services, AI data storage and communications, headend termination to a fiber backbone, and data center fiber rack systems. This cable is suitable for confined environments requiring flame resistance and operates within a temperature range of -20°C to 70°C. It does not have an ingress protection rating.

L-com offers one of the most extensive in-stock selections of multimode distribution cables, with same-day shipping available for both domestic and international orders. Order today to take advantage of same-day shipping, and our expert technical support and knowledgeable sales team are available to help you select the 8-fiber SC UPC to SC UPC OM3 multimode distribution cable that fits your needs.

Configuration

Function	Breakout
Cable Type	Base-8 Multimode
Mode	Multimode
Mode Class	OM3
Fiber Diameter	50/125 µm
Connection 1 Type	SC
Connection 1 Polish	UPC
Connection 2 Type	SC
Connection 2 Polish	UPC
Cable Color	Aqua Blue

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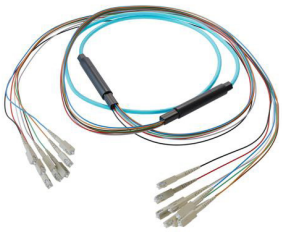

FCA-8M3SCUSCUZK2-5

Optical Specifications

Description	Minimum	Typical	Maximum	Units
Return Loss - LC, ST, SC, FC	30			dB
Insertion Loss - LC, ST, SC, FC			0.3	dB

Mechanical Specifications

Cable Assembly

Length	5 m [196.85 in]
Width/Diameter	5.6 mm
Weight	134.26 g [0.296 lbs]

Cable

Cable Type	Breakout
Static Bend Radius	42 mm
Dynamic Bend Radius	84 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	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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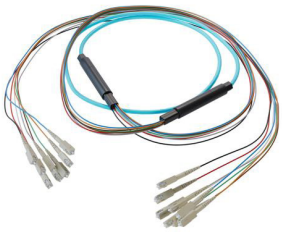

FCA-8M3SCUSCUZK2-5

Typical Performance Data

How to Order

Part Number Configuration: **FCA-8M3SCUSCUZK2** **-XX** **UU**

- UU — Unit of Measure:
  F = Feet
  <blank> = Meters
- -XX — Lengths
- FCA-8M3SCUSCUZK2 — Base Number

Example: FCA-8M3SCUSCUZK2-12 = 12 meters long cable
FCA-8M3SCUSCUZK2-10F = 10 feet long cable

8-Fiber SC UPC to SC UPC, OM3 Multimode Distribution Cable, 5.6mm LSZH, 2.0mm breakout, Aqua-5M from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: https://www.l-com.com/8-fiber-sc-upc-sc-upc-om3-multimode-distribution-cable-5.6mm-lszh-2.0mm-breakout-aqua-5m-fca-8m3scus-cuzk2-5

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FCA-8M3SCUSCUZK2-5 CAD Drawing

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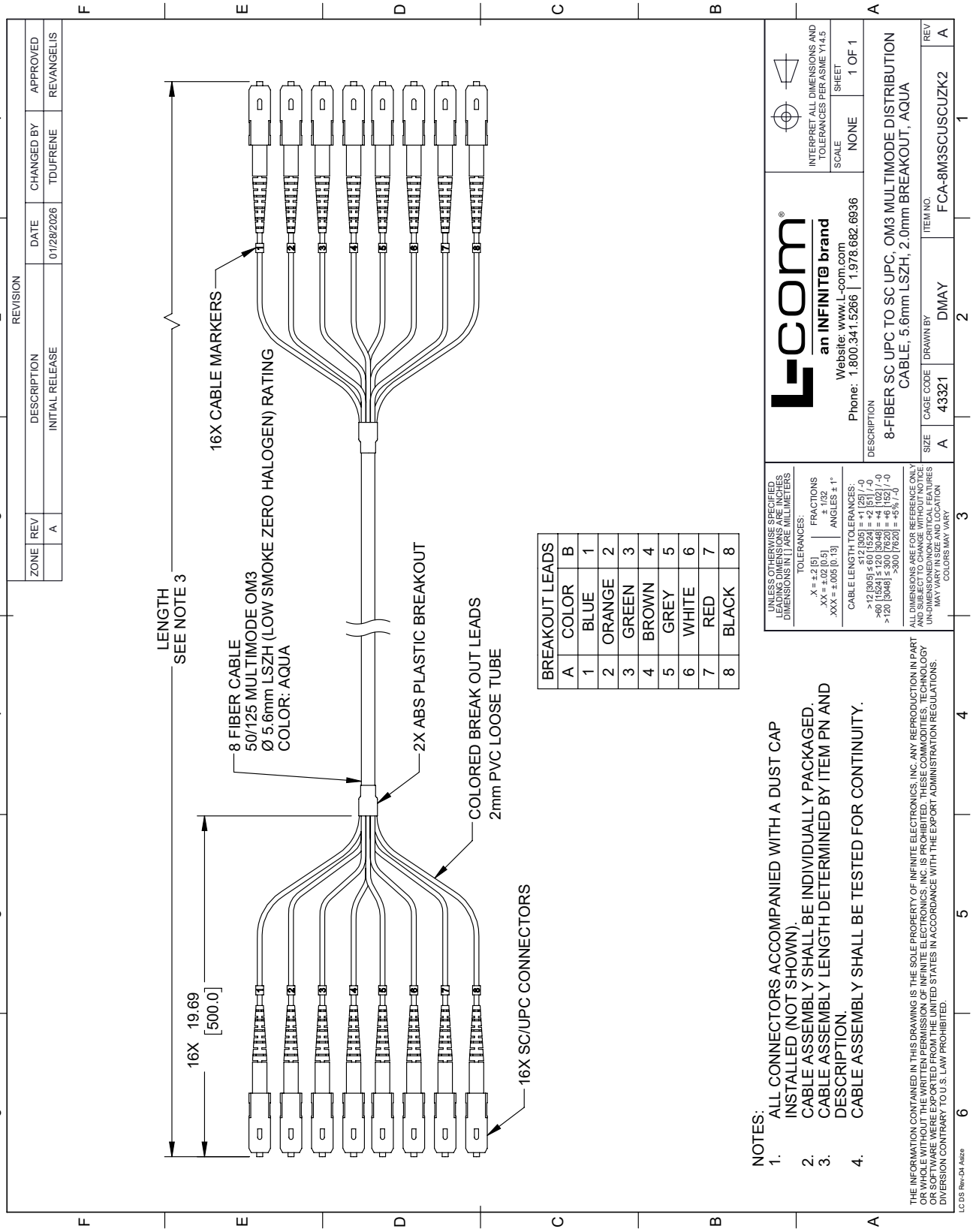

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