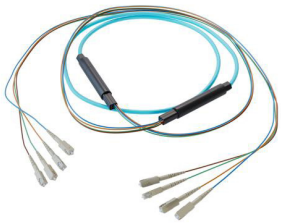
4-Fiber SC UPC to SC UPC, OM3 Multimode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Aqua-10M



FCA-4M3SCUSCUPK2-10

Features

- 4X SC UPC to 4X SC UPC
- Indoor multimode OM3
- Plenum (OFNP) rated cable
- 4.5mm with tight buffer and aramid yarn strength member
- 2mm TIA 598 color coded, .5M breakout
- Suitable for wall, ceiling, conduits, and between buildings

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-4M3SCUSCUPK2-10 fiber optic distribution cable is designed to support dependable multimode fiber connectivity in indoor network environments. This cable assembly features a 4-fiber SC UPC to SC UPC configuration, using OM3 multimode fiber with a 50/125 µm core size. Our fiber optic cable has a breakout design that supports organized fiber distribution and is commonly used in data centers, enterprise networks, and LAN applications, where multi-fiber routing and signal consistency are required. This 4-fiber multimode breakout cable is constructed with a 4.5 mm overall diameter aqua blue plenum (OFNP)-rated PVC jacket to meet indoor fire safety requirements. Each breakout fiber measures 2.0 mm and follows TIA-598 color coding for simplified identification and termination, with a 0.5 m breakout length.

Our fiber optic distribution cable features tight-buffered fiber construction with aramid yarn that provides mechanical durability, while controlled one-time and repeated bend radius values of 1.329 in and 2.657 in, respectively, help maintain optical performance during installation and routing. The cable also offers short-term and long-term crush resistance values of 1000 N/100 mm and 300 N/100 mm, respectively, to support robust indoor deployment.

The FCA-4M3SCUSCUPK2-10 OM3 10-meter fiber optic cable assembly uses SC UPC to SC UPC connectors to support low insertion loss and stable return loss performance, with a maximum insertion loss of 0.30 dB and a minimum return loss of 30 dB. This OM3 multimode fiber assembly is suitable for Passive Optical Networks (PON), storage and cloud-based services, AI data storage and communications, headend termination to a fiber backbone, and termination of data center fiber rack systems. This cable operates from 0 °C to 60 °C and is designed for indoor wall, ceiling, conduit, and rack-to-rack installations, with no ingress protection rating.

L-com offers one of the largest in-stock selections of multimode distribution cables, with same-day shipment available for domestic and international orders. Make your online purchase today to take advantage of our same-day shipping. Our expert technical support and knowledgeable sales team are ready to assist you in selecting the 4-fiber SC UPC to SC UPC OM3 multimode distribution cable that meets your needs.

Configuration

Function	Breakout
Cable Type	Base-4 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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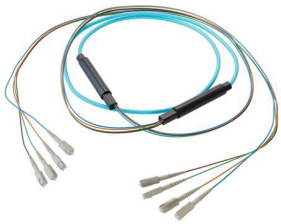

FCA-4M3SCUSCUPK2-10

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	10 m [393.70 in]
Width/Diameter	4.5 mm
Weight	94.35 g [0.208 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	UPC	UPC

Environmental Specifications

Operating Range Temperature	0 to +60 deg C
Storage Range Temperature	-20 to +60 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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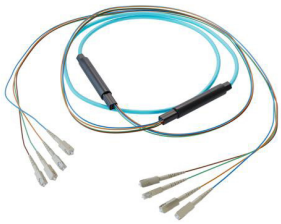

FCA-4M3SCUSCUPK2-10

Typical Performance Data

How to Order

Part Number Configuration: **FCA-4M3SCUSCUPK2** **-XX** **UU**

- UU — Unit of Measure:
  - F = Feet
  - <blank> = Meters
- -XX — Lengths
- FCA-4M3SCUSCUPK2 — Base Number

Example: FCA-4M3SCUSCUPK2-12 = 12 meters long cable
FCA-4M3SCUSCUPK2-10F = 10 feet long cable

4-Fiber SC UPC to SC UPC, OM3 Multimode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Aqua-10M 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/4-fiber-sc-upc-sc-upc-om3-multimode-indoor-distribution-cable-4.5mm-plenum-2.0mm-breakout-aqua-10m-fca-4m3scuscupk2-10-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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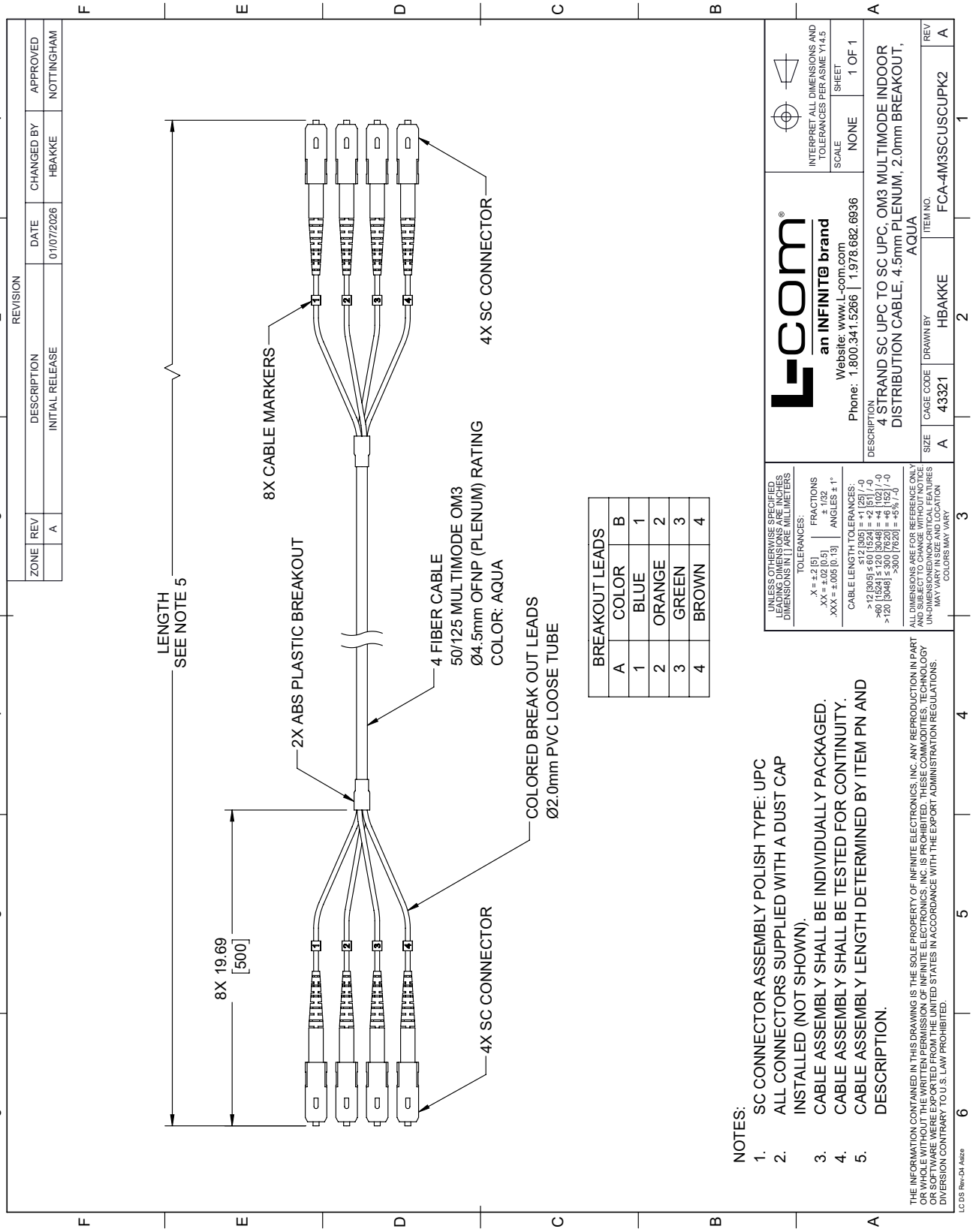
FCA-4M3SCUSCUPK2-10 CAD Drawing

4-Fiber SC UPC to SC UPC, OM3 Multimode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Aqua-10M



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