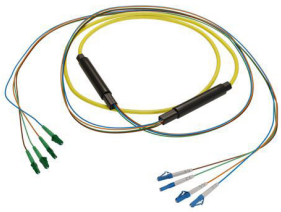
4-Fiber LC APC to LC UPC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Yellow-5M



FCA-4S2LCALCUPK2-5

Features

- 4X LC APC to 4X LC UPC
- Indoor single mode OS2
- 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-4S2LCALCUPK2-5 fiber optic distribution cable is engineered to provide reliable single mode fiber connectivity for indoor network environments. This cable assembly features a 4-fiber LC APC to LC UPC configuration, utilizing OS2 single mode fiber with a 9/125 µm core size. Designed with a breakout structure, it ensures organized fiber distribution, making it an ideal choice for 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, and data center fiber rack terminations where multi-fiber routing and consistent signal performance are critical.

The 4-fiber single mode breakout cable comes with a 4.5 mm overall diameter yellow plenum (OFNP)-rated PVC jacket that meets 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 strength members, providing excellent mechanical durability. The cable features controlled bend radii, with a one-time bend radius of 1.329 inches and a repeated bend radius of 2.657 inches, ensuring optimal optical performance during installation and routing. It 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-4S2LCALCUPK2-5 5-meter OS2 fiber optic assembly uses LC APC to LC 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 50 dB. Designed for indoor single mode OS2 applications, this plenum (OFNP)-rated cable is suitable for installation in walls, ceilings, conduits, and between buildings. It operates within a temperature range of 0°C to 60°C and has a non-rated ingress protection, ensuring reliable indoor performance.

L-com offers one of the most extensive in-stock selections of fiber optic 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 4-fiber LC APC to LC UPC OS2 single mode distribution cable that fits your needs.

Configuration

Function	Breakout
Cable Type	Base-4 Single Mode
Mode	Single Mode
Mode Class	OS2
Fiber Diameter	9/125 µm
Connection 1 Type	LC
Connection 1 Polish	APC
Connection 2 Type	LC
Connection 2 Polish	UPC
Cable Color	Yellow

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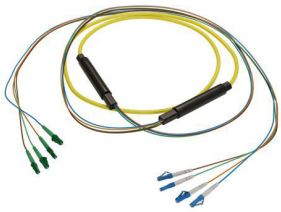
4-Fiber LC APC to LC UPC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Yellow-5M



FCA-4S2LCALCUPK2-5

Optical Specifications

Description	Minimum	Typical	Maximum	Units
Return Loss - LC, ST, SC, FC	50			dB
Insertion Loss - LC, ST, SC, FC			0.3	dB

Mechanical Specifications

Cable Assembly

Length	5 m [196.85 in]
Width/Diameter	4.5 mm
Weight	65.32 g [0.144 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	LC	LC
Connector Polish	APC	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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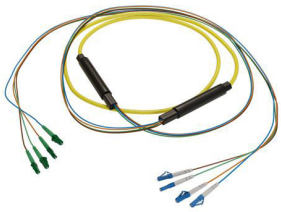
4-Fiber LC APC to LC UPC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Yellow-5M



FCA-4S2LCALCUPK2-5

Typical Performance Data

How to Order

Part Number Configuration: **FCA-4S2LCALCUPK2** **-XX** **UU**

- UU — Unit of Measure:
  F = Feet
  <blank> = Meters
- -XX — Lengths
- FCA-4S2LCALCUPK2 — Base Number

Example: FCA-4S2LCALCUPK2-12 = 12 meters long cable
FCA-4S2LCALCUPK2-10F = 10 feet long cable

4-Fiber LC APC to LC UPC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Yellow-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/4-fiber-lc-apc-lc-upc-os2-single-mode-indoor-distribution-cable-4.5mm-plenum-2.0mm-breakout-yellow-5m-fca-4s2lcalcupk2-5

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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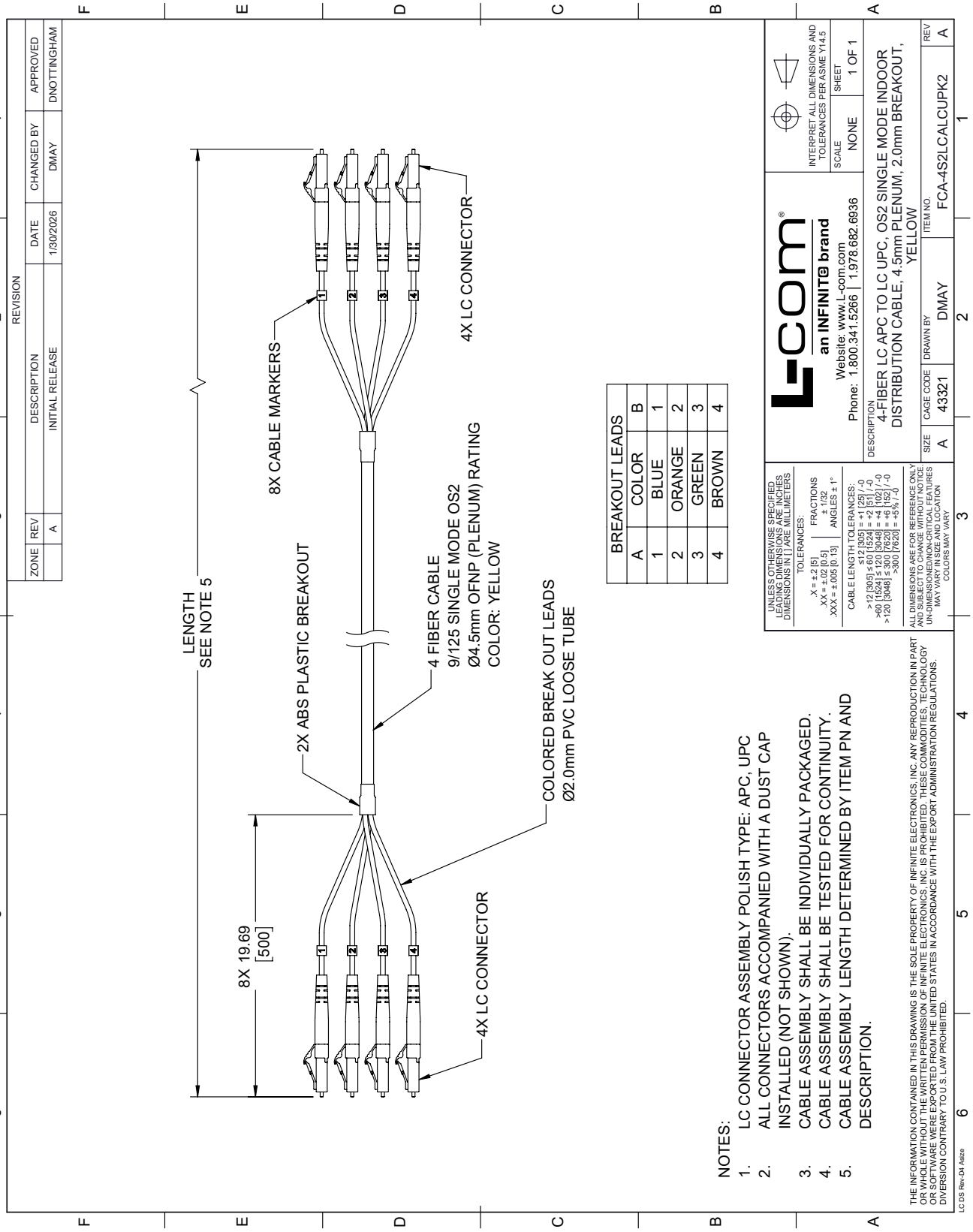
FCA-4S2LCALCUPK2-5 CAD Drawing

4-Fiber LC APC to LC UPC, OS2 Single Mode Indoor Distribution Cable, 4.5mm Plenum, 2.0mm breakout, Yellow-5M



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