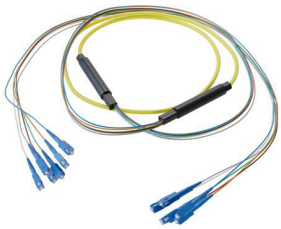
6-Fiber SC UPC to SC UPC, OS2 Single Mode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Yellow-25M



FCA-6S2SCUSCUZK2-25

Features

- 6X SC APC to 6X SC APC
- Indoor single mode G.657.A1 OS2
- 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

L-com's FCA-6S2SCUSCUZK2-25 fiber optic distribution cable is engineered to provide reliable single mode fiber connectivity for indoor network environments. This cable assembly features a 6-fiber SC UPC to SC UPC configuration, using 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, enterprise networking, and LAN applications where multi-fiber routing and consistent signal performance are critical. The 6-fiber single mode breakout cable comes with a 5.0 mm overall diameter yellow polyethylene low smoke zero halogen (LSZH)- rated 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 1.476 inches and a repeated bend radius of 2.953 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-6S2SCUSCUZK2-25 25-meter OS2 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 0.3 dB, with a minimum return loss of 50 dB. This OS2 single mode fiber assembly is perfect for applications such as 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 terminations of data center fiber rack systems. Designed for indoor single mode G.657.A1 OS2 applications, this low smoke zero halogen (LSZH) rated cable is suitable for confined installations where flame resistance is required. With an operating temperature range of -20 °C to 70 °C and non-rated ingress protection, this cable is built for 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 6-fiber SC UPC to SC UPC OS2 single mode distribution cable that fits your needs.

Configuration

Function	Breakout
Cable Type	6-Fiber Single Mode
Mode	Single Mode
Mode Class	OS2
Fiber Diameter	9/125 µm
Connection 1 Type	SC
Connection 1 Polish	UPC
Connection 2 Type	SC
Connection 2 Polish	UPC
Cable Color	Yellow

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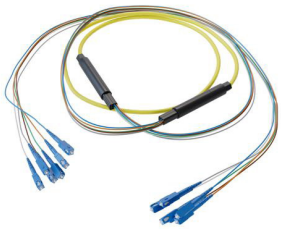

FCA-6S2SCUSCUZK2-25

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	25 m [984.25 in]
Width/Diameter	5 mm
Weight	182.34 g [0.402 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	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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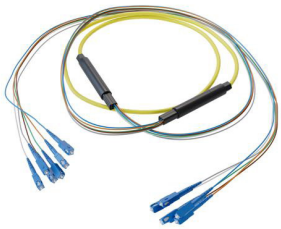

FCA-6S2SCUSCUZK2-25

Typical Performance Data

How to Order

Part Number Configuration: **FCA-6S2SCUSCUZK2** **-XX** **UU**

- UU — Unit of Measure:
  F = Feet
  <blank> = Meters
- -XX — Lengths
- FCA-6S2SCUSCUZK2 — Base Number

Example: FCA-6S2SCUSCUZK2-12 = 12 meters long cable
FCA-6S2SCUSCUZK2-10F = 10 feet long cable

6-Fiber SC UPC to SC UPC, OS2 Single Mode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Yellow-25M 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/6-fiber-sc-upc-sc-upc-os2-single-mode-distribution-cable-5.0mm-lszh-2.0mm-breakout-yellow-25m-fca-6s2s-cuscuzk2-25

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FCA-6S2SCUSCUZK2-25 CAD Drawing

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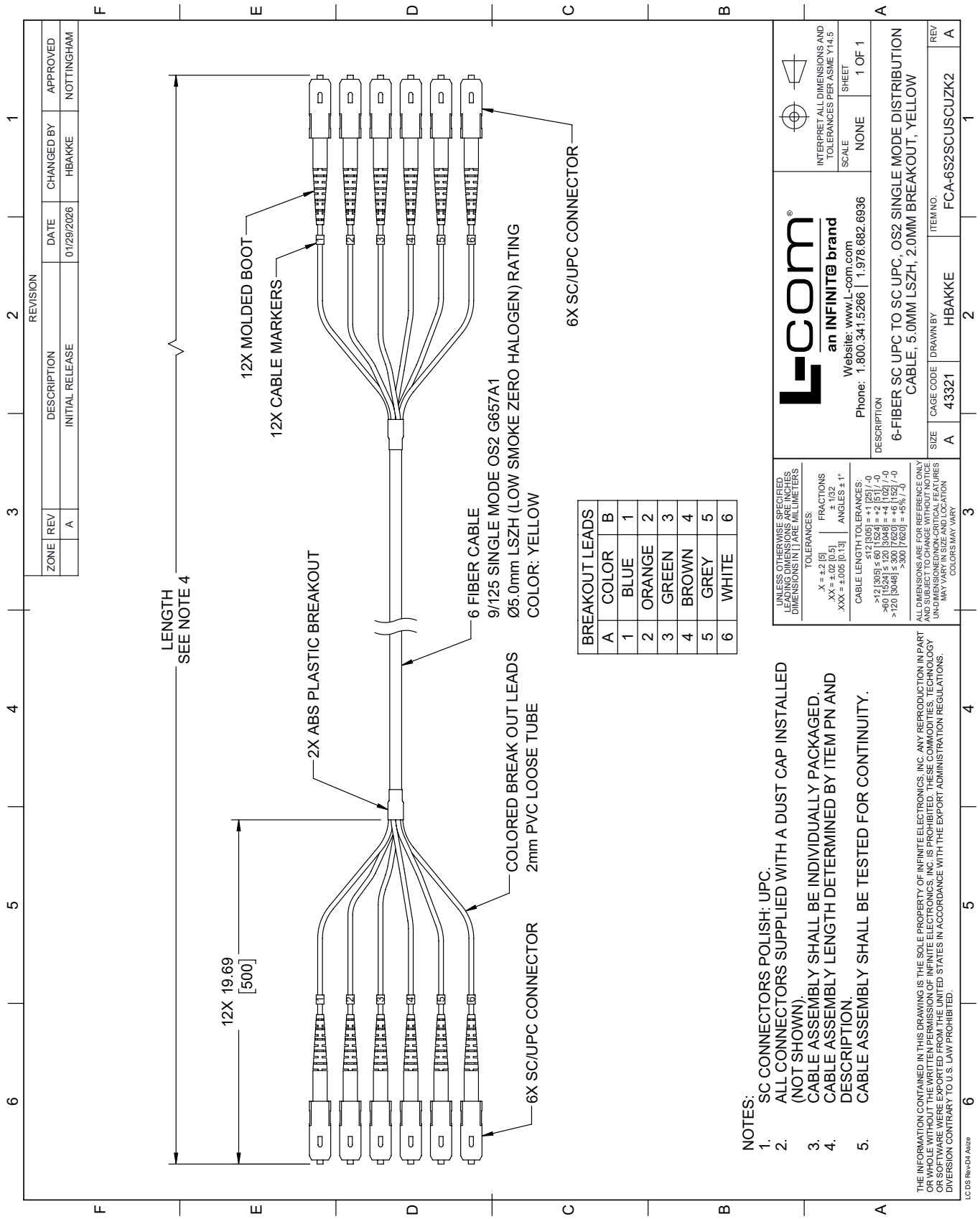

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