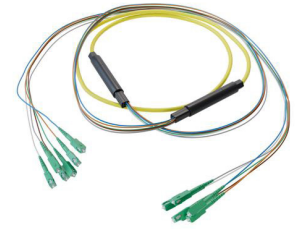


## 6-Fiber SC APC to SC APC, OS2 Single Mode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Yellow-30M



### FCA-6S2SCASCAZK2-30

#### Features

- 6X LC APC to 6X SC APC
- Indoor single mode G.657.A1 OS2
- Riser (OFNR) rated cable
- 5.0mm with tight buffer and aramid yarn strength member
- 2mm TIA 598 color coded, .5M breakout
- Suitable for ceilings and riser areas

#### 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-6S2SCASCAZK2-30 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 APC to SC APC configuration, using OS2 single mode fiber with a 9/125  $\mu\text{m}$  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.

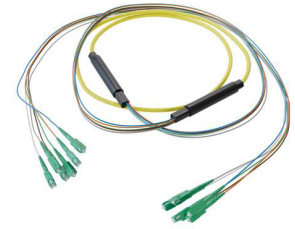
The FCA-6S2SCASCAZK2-30 30-meter OS2 fiber optic assembly uses SC APC to SC APC connectors, which ensure low insertion loss and stable return loss performance. The maximum insertion loss is 0.3 dB, with a minimum return loss of 60 dB. This OS2 single mode fiber assembly is perfect for applications such 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 APC to SC APC 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 $\mu\text{m}$
Connection 1 Type	SC
Connection 1 Polish	APC
Connection 2 Type	SC
Connection 2 Polish	APC
Cable Color	Yellow

6-Fiber SC APC to SC APC, OS2 Single Mode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Yellow-30M



## FCA-6S2SCASCAZK2-30

### Optical Specifications

Description	Minimum	Typical	Maximum	Units
Return Loss - LC, ST, SC, FC	60			dB
Insertion Loss - LC, ST, SC, FC			0.3	dB

### Mechanical Specifications

#### Cable Assembly

Length	30 m [1181.10 in]
Width/Diameter	5 mm
Weight	205.02 g [0.452 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	APC	APC

### Environmental Specifications

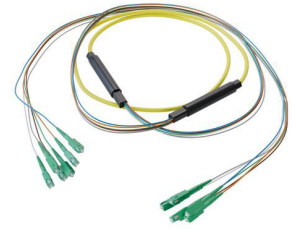
Operating Range Temperature	-20 to +70 deg C
Storage Range Temperature	-40 to +70 deg C
Ingress Protection (IP) Rating	Non-Rated

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

6-Fiber SC APC to SC APC, OS2 Single Mode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Yellow-30M



## FCA-6S2SCASCAZK2-30

### Typical Performance Data

### How to Order

Part Number Configuration:

**FCA-6S2SCASCAZK2**

**-XX**

**UU**

Unit of Measure:

F = Feet

<blank> = Meters

Lengths

Base Number

Example: FCA-6S2SCASCAZK2-12 = 12 meters long cable  
FCA-6S2SCASCAZK2-10F = 10 feet long cable

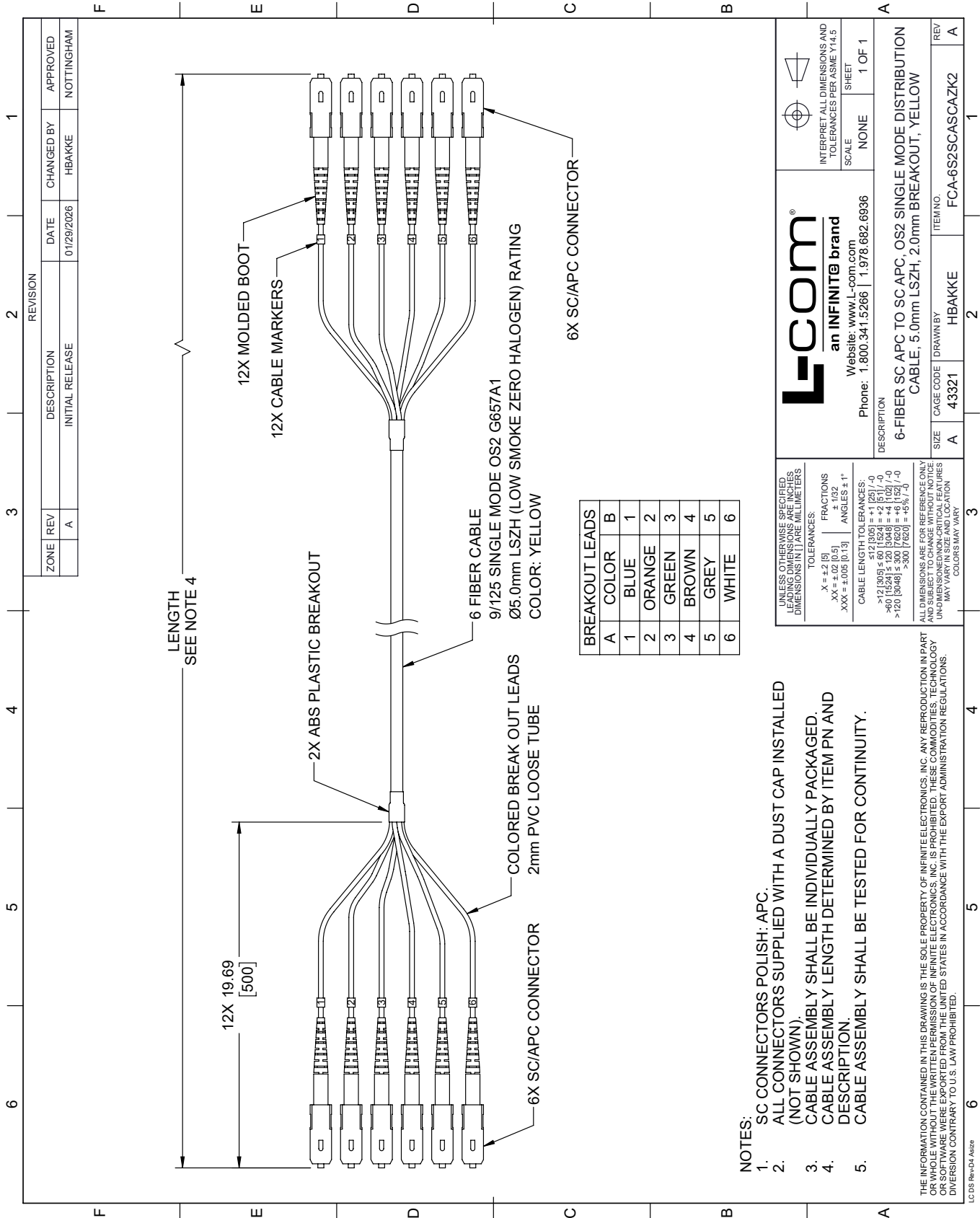
6-Fiber SC APC to SC APC, OS2 Single Mode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Yellow-30M from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, 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-apc-sc-apc-os2-single-mode-distribution-cable-5.0mm-lszh-2.0mm-breakout-yellow-30m-fca-6s2s-cascazk2-30>

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 implement 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.

# FCA-6S2SCASCAZK2-30 CAD Drawing

6-Fiber SC APC to SC APC, OS2 Single Mode Distribution Cable, 5.0mm LSZH, 2.0mm breakout, Yellow-30M



LENGTH SEE NOTE 4

12X 19.69 [500]

12X MOLDED BOOT

12X CABLE MARKERS

2X ABS PLASTIC BREAKOUT

COLORED BREAK OUT LEADS  
2mm PVC LOOSE TUBE

6 FIBER CABLE  
9/125 SINGLE MODE OS2 G657A1  
Ø5.0mm LSZH (LOW SMOKE ZERO HALOGEN) RATING  
COLOR: YELLOW

6X SC/APC CONNECTOR

6X SC/APC CONNECTOR

BREAKOUT LEADS	
A	B
1	BLUE
2	ORANGE
3	GREEN
4	BROWN
5	GREY
6	WHITE

**NOTES:**

- SC CONNECTORS POLISH: APC.
- ALL CONNECTORS SUPPLIED 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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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.  
TOLERANCES: X = ±.2 [5] FRACTIONS ±.132 .XX = ±.02 [0.5] .XXX = ±.005 [0.13] ANGLES ± 1°  
CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±.5 [12.7] / -0  
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  
SCALE NONE  
SHEET 1 OF 1

DESCRIPTION	
6-FIBER SC APC TO SC APC, OS2 SINGLE MODE DISTRIBUTION CABLE, 5.0mm LSZH, 2.0mm BREAKOUT, YELLOW	
SIZE	DESCRIPTION
A	43321
SIZE	DESCRIPTION
A	43321
ITEM NO.	DESCRIPTION
FCA-6S2SCASCAZK2	