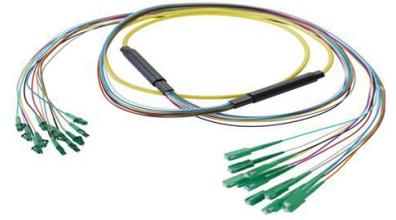# 12-Fiber LC APC to SC APC, OS2 Single Mode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Yellow-15M

PE3FCA458-15M

Features

- 12X LC APC to 12X SC APC
- Indoor single mode OS2
- Plenum (OFNP) rated cable
- 6.2mm 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

High-performance fiber optic cable assemblies, including the PE3FCA458-15M from Pasternack, are designed for modern, high-speed network infrastructures and part of a large selection of same day ship cable assemblies. Whether deploying fiber optic distribution assemblies for enterprise networks, fiber optic breakout assemblies for seamless interconnectivity, or fiber optic patch cord assemblies for structured cabling, our solutions ensure durability and precision. Built for data centers, telecommunications, and industrial applications, our fiber optic distribution breakout assemblies deliver superior performance, ensuring optimal signal integrity and minimal loss.

For long-distance and high-speed transmission, the Pasternack PE3FCA458-15M indoor Single Mode G.657.A1 OS2 fiber optic cable assembly offers ultra-low attenuation over distances up to 10km for 10G Ethernet and beyond. Built with a 9/125μm core size, this 12 fiber LC APC to SC APC fiber optic distribution assembly ensures minimal signal loss for campus networks, metro Ethernet, and telecom infrastructure. The yellow Plenum (OFNP) rated jacket, tight-buffered aramid yarn construction, and 42mm (7.5D) minimum bend radius provide maximum durability and performance.

With an operating temperature range of 0°C to 60°C, Pasternack's PE3FCA458-15M OS2 fiber optic cable is designed for indoor environments, supporting wall, ceiling, conduits, and between buildings. The 6.2mm overall cable diameter and 2.0mm breakout diameter allow for flexible routing while maintaining low insertion loss and superior signal integrity. Whether for enterprise backbones, long-haul networking, or high-speed data transmission, this OS2 fiber optic assembly delivers exceptional reliability for critical infrastructure deployments. For further information on similar products, our expert technical support and trained sales team can get you the ideal fiber optic multi-fiber cable assembly as per your requirements.

Configuration

Function	Breakout
Cable Type	12-Fiber Single Mode
Mode	Single Mode
Mode Class	OS2
Fiber Diameter	9/125 um
Connection 1 Type	LC
Connection 1 Polish	APC
Connection 2 Type	SC
Connection 2 Polish	APC
Cable Color	Yellow

Optical Specifications

Description	Minimum	Typical	Maximum	Units
Return Loss	60			dB

12-Fiber LC APC to SC APC, OS2 Single Mode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Yellow-15M
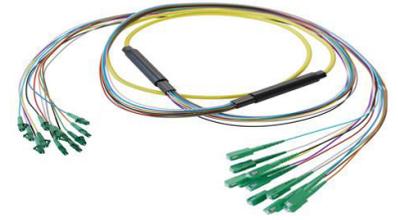
PE3FCA458-15M

Optical Specifications

Description	Minimum	Typical	Maximum	Units
Insertion Loss			0.3	dB

Mechanical Specifications

Cable Assembly
Width/Diameter   6.2 mm
Weight   207.75 g [0.458 lbs]

Cable
Cable Type   Breakout
Static Bend Radius   47 mm
Dynamic Bend Radius   93 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	SC
Connector Polish	APC	APC

Environmental Specifications
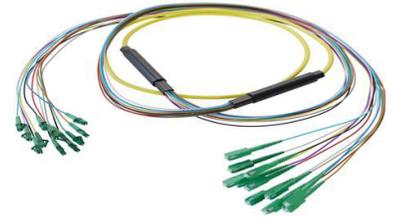
Operating Range Temperature   0 to +60 deg C
Storage Range Temperature   -20 to +60 deg C
Ingress Protection (IP) Rating   Non-Rated

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

12-Fiber LC APC to SC APC, OS2 Single Mode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Yellow-15M

PE3FCA458-15M

Typical Performance Data

How to Order

Part Number Configuration: **PE3FCA458** - xx   uu

Unit of Measure:
M = Meters
<blank> = Inches
Length
Base Number

Example: PE3FCA458-12 = 12 inches long cable
PE3FCA458-100cm = 100 cm long cable

12-Fiber LC APC to SC APC, OS2 Single Mode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Yellow-15M from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 12-Fiber LC APC to SC APC, OS2 Single Mode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Yellow-15M PE3FCA458-15M

URL: https://www.pasternack.com/lc-sc-single-mode-os2-fiber-optic-cable-assembly-pe3fca458-15m-p.aspx

PE3FCA458-15M CAD Drawing

12-Fiber LC APC to SC APC, OS2 Single Mode Distribution Cable, 6.2mm Plenum, 2.0mm breakout, Yellow-15M

12X SC/APC CONNECTOR

LENGTH
SEE NOTE 5

12 FIBER CABLE
9/125 SINGLE MODE OS2 G657A1
Ø6.2mm OFNP (PLENUM) RATING
COLOR: YELLOW

2X ABS PLASTIC BREAKOUT

COLORED BREAKOUT LEADS
Ø2mm PVC LOOSE TUBE

24X CABLE MARKERS,
NUMBERED AS SHOWN

24X 19.69 [500]

12X LC/APC CONNECTOR

BREAKOUT LEADS

	COLOR	B
A		
1	BLUE	1
2	ORANGE	2
3	GREEN	3
4	BROWN	4
5	GREY	5
6	WHITE	6
7	RED	7
8	BLACK	8
9	YELLOW	9
10	VIOLET	10
11	PINK	11
12	AQUA	12

NOTES:

1. LC CONNECTOR POLISH TYPE: APC
   SC CONNECTOR POLISH TYPE: APC

2. ALL CONNECTORS ACCOMPANIED WITH A DUST CAP INSTALLED (NOT SHOWN).

3. CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED.

4. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

5. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

Revision Block

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	03/25/2025	AKRESOWSKI	REVANGELIS

REVISION

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
.X = ±.2 [5]
.XX = ±.02 [0.5]
.XXX = ±.005 [0.13]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY

PASTERNACK®
an INFINITE brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
12 STRAND LC APC TO SC APC, OS2 SINGLE MODE DISTRIBUTION CABLE ASSY, 6.2MM PLENUM, 2.0MM BREAKOUT, YELLOW

DRAWN BY: AKRESOWSKI
CAGE CODE: 53919
ITEM NO.: PE3FCA458
REV: A
SIZE: A

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

PE DS Rev-D4