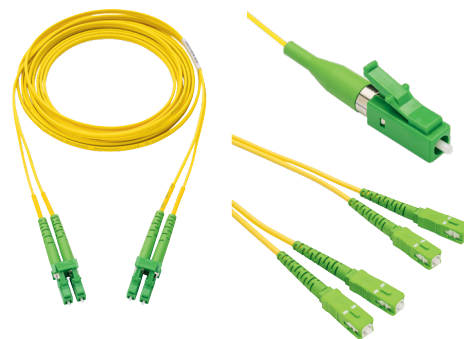# Opti-Core® Fiber Optic Patch Cords and Pigtails LC/APC and SC/APC

PANDUIT®

technical information

The Opti-Core® LC/APC and SC/APC patch cords support singlemode network applications in main, horizontal and equipment distribution areas and are available in riser (OFNR) and low smoke zero halogen (LSZH) rated jacket materials. In addition, pre-terminated fiber optic pigtails support fusion splice field termination applications.

Both fiber optic patch cords and pigtails are available in OS2 fiber.

application

Provide interconnect and cross-connect of applications in entrance facilities, telecommunications rooms, data centers, at the desk and network applications to interconnect pre-terminated cassettes in main distribution, horizontal distribution, and equipment distribution areas.

construction

Fiber count:	Simplex (1-fiber) tight buffered
	Duplex (2-fiber) jacketed zipcord
Cable jacket ratings:	Riser (OFNR)
	Low Smoke Zero Halogen (LSZH)
Fiber types:	Singlemode: OS2/A2 (25G)
	1.6mm O.D. G.657.A2/B2
	3.0mm O.D. G.652.D
Connector types end 'A':	Simplex or Duplex LC/APC, SC/APC
Connector type end 'B':	Simplex or Duplex LC/APC, SC/APC
Jacket color:	Yellow

physical properties

Cable outside diameter (OD):	1.6mm duplex and simplex
	3mm duplex and simplex
	900 micron tight buffered
Connector cable retention:	50 N @ 0°C
	19.4 N @ 90°C
Connector durability:	500 cycles
Bend radius, minimum:	1.6mm: 16mm
	3mm: 29mm
	900 micron: 9mm

optical properties

Connector insertion loss (IL):	0.30dB max. LC/APC
	0.50dB max. SC/APC
Connector return loss (RL):	65dB min.

environmental properties

Storage and shipping temperature:	-40°C to 70°C
Operating and installation temperature:	-10°C to 60°C

standards

Meets or exceeds:	IEC 60332-1-2,
	IEC 60332-3-24,
	IEC 60754-1,
	IEC 60754-2,
	IEC 61034-2,
	TIA-604-3 (FOCIS-3),
	TIA-604-10 (FOCIS-10),
	TIA 568.3-C.3
Restriction of Hazardous Substances (RoHS) Compliance:	All patch cord components meet the requirements of Directive 2002/95/EC.

part number

Example: F92ERB1B1SNM5.5 = Fiber OS2, 2-fiber, 1.6mm cable, riser rated, LC/APC to LC/APC, standard IL, 5.5 meters

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	F	9	2	E	R	B	1	B	1	S	N	M	5	.	5

1 – Fiber Product
F = Fiber

2 – Fiber Type
9 = OS2

3 – Fiber Count
1 = 1 Fiber
2 = 2 Fibers

4 – Cable Type
B = 900µm buffer
E = 1.6mm
3 = 3.0mm (only for SC-SC/APC or SC/APC-SC/APC)

5 – Jacket Type
L = LSZH (Low Smoke Zero Halogen)
R = OFNR (Riser)
N = 900µm buffer

6, 7, 8, 9 – Connector Type

1NAN = LC to SC/APC Simplex only

1NB1 = LC to LC/APC Simplex only

3NAN = SC to SC/APC Simplex only

3NB1 = SC to LC/APC Simplex only

ANAN = SC/APC to SC/APC

ANB1 = SC/APC to LC/APC

ANLN = SC/APC to LC

ANSN = SC/APC to SC

B1B1 = LC/APC to LC/APC

B1LN = LC/APC to LC

B1SN = LC/APC to SC

ANNN = SC/APC Pigtail Simplex

B1NN = LC/APC Pigtail Simplex

10 – Performance/Construction
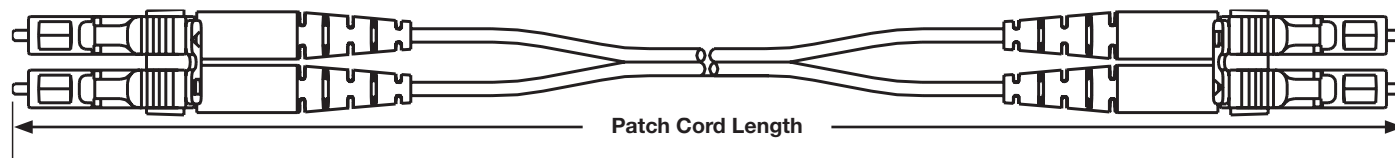S = Standard IL (A-B)

11 – Other
N = No variant

12 – Unit of Length
M = Meters

13, 14, 15 – Length
0.5 - 050 in 1 meter increments

fiber optic patch cord detail

Patch Cord Length

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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