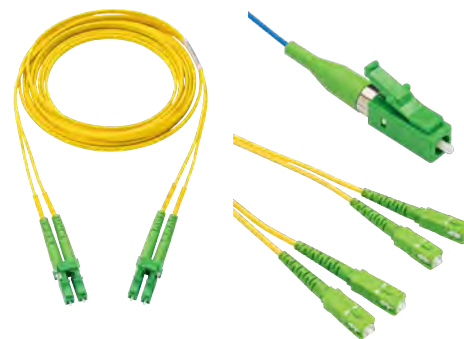# Opti-Core® Fiber Optic Patch Cords and Pigtails LC/APC and SC/APC

technical information

Fiber optic patch cords and pigtails provide interconnect and cross-connect of applications over installations in entrance facilities, telecommunications rooms, data centers and at the desk. Patch cords support network applications in main, horizontal and equipment distribution areas and are available in riser (OFNR), and low smoke zero halogen (LSZH) and plenum (OFNP) rated jacket materials to comply with local cabling ordinances. Pre-terminated fiber optic pigtails support fusion splice field termination applications.

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) per: IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2
Fiber types:	Singlemode: OS2 (G.652.D) 9/125 LWP Bend-Insensitive (G.657.A2/B2)
Connector types end 'A':	Simplex or Duplex LC/APC, SC/APC
Connector type end 'B':	Simplex or Duplex LC/APC, SC/APC
Jacket color:	OS2 (G.652.D): Yellow OS2 (G.657.A2/B2): Yellow

Note: For hybrid cords, the SC connector is always on End B.

physical properties

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

optical properties

Connector insertion loss:	0.30dB max. (LC/APC - OS2 both) 0.50dB max. (SC/APC - OS2 both)
Connector return loss:	0.65dB min.

environmental properties

Storage and shipping temperature:		-40°C to 70°C
Operating and installation temperature:	Riser: LSZH:	-20°C to 70°C -20°C to 70°C

standards

Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-3 (FOCIS-3), TIA-604-10 (FOCIS-10)

Restriction of Hazardous Substances (RoHS) Compliance:	All patch cord components meet the requirements of Directive 2002/95/EC.

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

part number

Example: F92ERBNBNSNM5.5 = 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	N	B	N	S	N	M	5	.	5

1 – Fiber Product
  F = Fiber

2 – Fiber Type
  8 = Bend in Sensitive
   OS2 G.657.A2/B2 9/125μm
  9 = OS2 G.652.D 9/125μm

3 – Fiber Count
  1 = 1 fiber
  2 = 2 fibers

4 – Cable Type
  B = 900μm buffer
  E = 1.6mm
  3 = 3.0mm (Only for SC to SC cords)

5 – Jacket Type
  L = LSZH (Low Smoke Zero Halogen)
  R = OFNR (Riser)
  N = No Jacket 900μm tight
   buffered only

6 – Connector Type - End A
  A = SC/APC
  B = LC/APC

7 – Connector Variant
  N = No variant

8 – Connector Type - End B
  A = SC/APC
  B = LC/APC
  N = None; pigtail

9 – Connector Variant
  N = No variant

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

11 – Other
  N = No variant

12 – Unit of Length
  F = Feet
  M = Meters

13, 14, 15 – Length
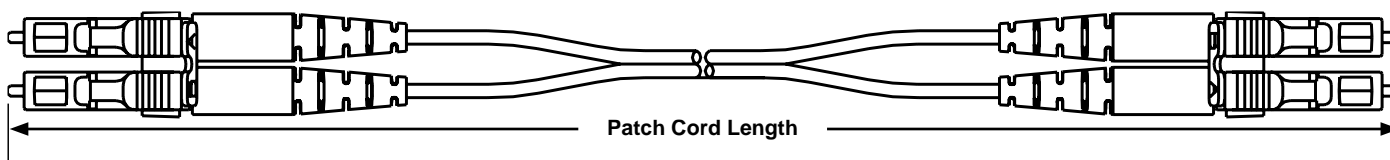 001 - 025 (Feet)
  001 - 050 (Meters)
  0.5 meter increments from 1 - 10
  (see example above for format)
  001 & 002 (meter) - 900μm
  tight buffered

Note: For hybrid cords, the SC connector is always on End B.

fiber optic patch cord detail

Patch Cord Length

Other options are available as follows; contact Panduit Tech Support for part number.

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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