Bundle Fan-out Fiber Optic Patch Cord /Pigtail

Bundle fan-out patch cords /pigtails are made of multi core round bundle fiber optic cable, which is also called distribution fiber optic cable. Distribution fiber optic cable is multi 900μm buffered fibers bundled in an outer jacket with aramid yarn. To easily identify the multiple fiber cables, 0.9mm buffered fiber itself are made with different colors.
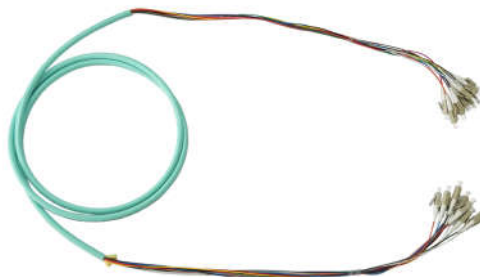
patch cord (connected with two ends)

pigtail (only one end connected)

Bundle cable has the advantage of giving less congestion than 12 individual buffered fibers with outer jacket and aramid yarn, can save space for cable ducts. It is generally installed in closet area like rack mount or wall mount splice boxes or patch panels. Patch cords /pigtails are a custom design product; cable length, jacket types and connectors are with many options.

Standards Compliance

- Telcordia (formerly Bellcore) GR-326-CORE Generic requirements for Single mode optical connectors and Jumper assemblies.
- IEC 874-1 Generic specification for fiber optic connectors and cables
- ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC EN 50173, UL94V-0
- Cable flame resistant rate: OFNR or IEC60332-3 standard

Features

- 100% tested on optical performance (Insertion Loss & Return Loss).
- Standard color is Yellow, Orange or Aqua, other colors available upon request.
- Cable outer jacket available in PVC, Low Smoke Zero Halogen (LSZH).
- PC, UPC, APC connectors type available.
- Various kinds of connect interfaces optional such as LC, SC, FC, ST, MTRJ, MU, E2000, etc.
- Available in G652D, G657A, OM1, OM2, OM3 and OM4.
- Each buffered fiber is color coded for easy identification.
- Can be in pigtail version or patch cord version, customer specified length.

Cable structure

Specification

Fiber Type	OS2, OM1, OM2, OM3, OM4	Fiber Count	4, 6, 8, 12
Cable Type	Distribution Tight Buffer Optical Cable	Fan-out tubing diameter	0.9mm
Connector	SC, LC, ST, FC, MU, E2000, DIN, D4	Jacket Type	PVC, LSZH
Operating temperature	-40°C to +85°C	Storage temperature	-40°C to +85°C

Optical Performance Data

Item	Single mode			Multimode		
	PC	UPC	APC	62.5/125	50/125	50/125 10G
Insert Loss/connector (single Fiber)	0.2dB Max. (0.15dB typ.)			0.3dB Max. (0.25dB typ.)		
Return Loss	≥45 dB	≥50 dB	≥60 dB	N.A		
Pull Strength	≥98N			≥98N		

Sales Catalog of HNK Telecommunication Products
Fiber Optic Patch Cord /Pigtail

Optical Characteristics

Fiber Type	Max. Attenuation(dB/km)				Min.Overfill Launch Bandwidth (Mhz.km)		Min.Gigabit Ethernet Link Distance (m)		
							Gigabit		10Gigabit
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm	850nnm
OM1 62.5/125μm	≤2.7	≤0.6	-	-	≥500	≥600	275	550	-
OM2 50/125μm	≤2.3	≤0.6	-	-	≥500	≥500	750	600	150
OM3 50/125μm	≤2.3	≤0.6	-	-	≥1500	≥500	1000	600	300
OM4 50/125μm	≤2.3	≤0.6	-	-	≥3500	≥500	1100	600	550
G652D 9/125μm	-	-	≤0.30	≤0.18	-	-	-	-	-
G657A 9/125μm	-	-	≤0.35	≤0.21	-	-	-	-	-

Ordering Information

Using the available configurations amend/create product codes using the formula below.

Patch Cord Part Number：**BFPC-AA-BB-CDEFGCL**   Pigtail Part Number：**BFPT- AA- CDEFGCL**

Ordering Guide

AA	BB	C		D	
Connector Type	Connector Type	Fiber Type		Fiber Count	
FP, SP, SA, LP	FP, SP, SA, LP	OM1=62.5/125 OM1 OM2=50/125 OM2 OM3=50/125 OM3 OM4=50/125 OM4 G652D=9/125 G652D G657A=9/125 G657A		4F=4 cores 6F=6 cores 12F=12 cores	

E	F	G	CL
Fanout Cable Length	Total Length	Jacket Materia	Jacket Color (CL)
05=0.5M 10=1M 15=1.5M	0015=1.5M 0200=20M	1=PVC 2=LSZH 3=PE	As noted in Color code chart

Connector Type Code

Code	Connector	Code	Connector	Code	Connector	Code	Connector
FP	FC/PC	FA	FC/APC	LP	LC/PC	LA	LC/APC
SP	SC/PC	SA	SC/APC	TP	ST/PC	TA	ST/APC

Color Code

BL - Blue	OR - Orange	GR - Green	BR - Brown
GY - Gray	WH - WHite	RE - Red	BK - Black
YE - Yellow	PU - Purple	PI - Pink	AQ - Aqua

Note:Yellow Jacket for SM, Orange Jacket for OM1~OM2, Aqua Jacket for OM3 and Purple Jacket for OM4.
(other colors may be available upon request).

Ordering Sample

Part Number	Description
BFPC-LP-LP-OM312F0502002AQ	LC/PC-LC/PC Bundle Fan-out Fiber Optic Patch Cord, Multimode 50/125 OM3, 12 Cores, LSZH, Aqua, Fanout Cable Length 0.5M, Total Length 20M.
BFPT-SP-G652D12F1001001YE	12 Cores SC/PC Singlemode G652D Bundle Fan-out Fiber Optic Pigtail, Fanout Cable Length 1M, Total Length 10M, PVC Jacket, Yellow.