

## Sales Catalog of HNK Telecommunication Products

### Fiber Optic Patch Cord

## NSN FTTA (Fiber to The Antenna) Duplex Outdoor Branch Patch Cord

NSN FTTA duplex outdoor branch patch cord is made of all dielectric GJYFJH type fiber optic cable. The cable has small diameter, light weight and thick wall jacket protection, giving it versatile applications.

NSN FTTA duplex branch patch cord for the new generation wireless base stations pulled far tailored products that can be meet the FTTA (fiber to the top of the tower) program requirements for outdoor environment conditions and adverse weather conditions.



NSN Duplex LC Arbitrary Bending  
Connector Φ5.0mm Patch Cord



NSN Duplex LC Arbitrary Bending Connector  
Duplex Boot Φ5.0/ Φ7.0mm Patch Cord



NSN Duplex LC 90° Connector  
Φ7.0mm Armoured Patch Cord

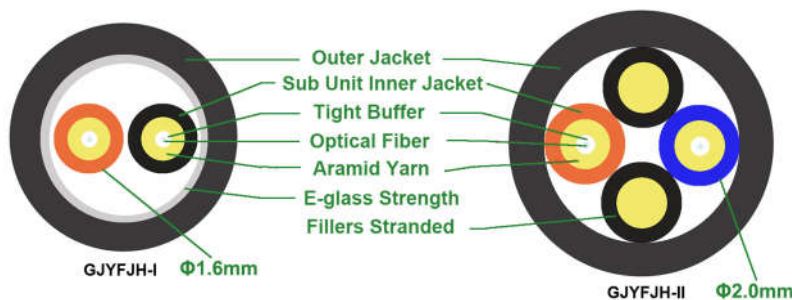
### Complied with or Exceeds Standard

- Telcordia GR-326-CORE generic requirements for single mode optical connectors and jumper assemblies.
- IEC 874-1 generic specification for fiber optic connectors and cables
- Comprehensive wiring standard: ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC EN 50173,
- Cable flame resistant rate: OFNR or IEC60332-3 standard
- RoHS compliant directive 2011/65/EU

### Features

- The cable is soft, flexible, convenient laying.
- Suitable for riser, duct, horizontal and vertical cabling.
- Thick wall outer jacket and e-glass gives more excellent tensile strength, mechanical, rodent, ultraviolet and environmental protection.
- Available in G652D, G657A1, G657A2, OM1, OM2, OM3 and OM4 fiber types.
- Patch cord will be produced to different kind of connectors and different length according to the construction need.
- Optional high tensile strength armoured tube for protecting Φ1.6/Φ2.0mm branch cable, custom lengths.
- Optional LC 90 degree connector or LC arbitrary bending connector.
- 5.0mm or 7.0mm cable diameter (available upon request).

### GJYFJH Cable Structure



GJYFJH-I cable is containing two simplex sub unit cables surrounded with water blocking e-glass strength members, and then with an overall UV resistant black LSZH outdoor jacket. The sub unit cable consists of a 900µm tight buffer optical fiber in a LSZH inner jacket with aramid yarn.

GJYFJH-II cable utilizes two simplex sub unit cables and two fillers stranded, and then with an overall LSZH jacket.



# Sales Catalog of HNK Telecommunication Products

## Fiber Optic Patch Cord

### 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		

### Mechanical, Environmental & Material Data

Items	Specifications	Items	Specifications
Fiber Type	Singlemode or Multimode	Connector Style	SC, FC, ST, LC
Polish or Ferrule Interface Type	PC, UPC, APC	Cable Lengths	Custom Lengths
Fiber Count	2	Branch Cable Lengths	Custom Lengths
<b>Cable Parameter</b>			
Outer Jacket Material	LSZH	Outer Jacket Color	Black
Strength Member	E-glass, Aramid Yarn	Outer Jacket Diameter (mm)	7.0±0.1 (or 5.0±0.1)
Min. Crush (Long term)	500 N/100mm	Min. Crush (Short term)	1000 N/100mm
Min. Tensile Load (Long Term)	200N	Min. Tensile Load (Short Term)	400N
Min. Bend Radius (Static) mm	10D	Min Bend Radius (Dynamic) mm	20D
<b>Sub-unit Parameter</b>			
Sub-unit Color	Orange, Black, Blue	Sub-unit Material	LSZH
Sub-unit Diameter(mm)	2.0±0.1(or 1.6±0.1)	Strength Member	Aramid yarn
Operating Temperature(°C)	-40°C to 70°C	Storage Temperature(°C)	-40°C to 70°C

### Ordering Information

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

Part Number: **NSN-PC-AA-BB-CDE**

### Ordering Guide

AA	BB	C	D	E
Connector Type	Connector Type	Fiber Type	Cable Length	Branch Cable Length
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, G657A1=9/125 G657A1, G657A2=9/125 G657A2	003=3M 020=20M 100=100M	02=0.2M ... 10=1M

### 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

### Ordering Sample

Part Number	Description
<b>NSN-PC-LP-LP-G657A130005</b>	LC/PC-LC/PC NSN FTTA Duplex Outdoor Branch Patch Cord, Singlemode G657A1, 300M, Branch Cable 0.5M.