

# Sales Catalog of HNK Telecommunication Products

## Fiber Optic Patch Cord

### Armoured Fiber Optic Patch Cord

Armoured fiber optic patch cords are manufactured so as to withstand side pressure and repeated bending and are used in outdoor applications in customer premises, central offices and in harsh environments. Armoured patch cords are constructed with a stainless-steel tube over a standard patch cord surrounded by a stainless-steel mesh with an outer jacket. The flexible metal tube limits the bending radius, preventing the optical fiber from breaking. This ensures a safe and durable optical fiber network system.

Armoured fiber optic patch cords are a custom design product; cable length, jacket types, fiber type, fiber cores and connectors are with many options. It uses an optical branching device to protect the separated tight buffer fibers (for example 2~12 cores).



#### Standards Compliance

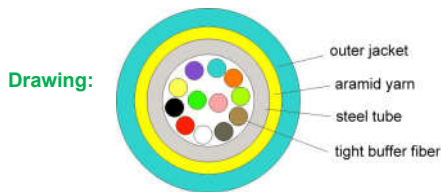
IEC 874-14, TIA/EIA-568-B.3 and ISO/IEC 11801, IEC-61754-7, TIA-604-5, RoHS, REACH & SvHC Compliant

#### Features

- Low insertion loss and high return loss, stable transmission.
- Available in G652D, G657A, OM1, OM2, OM3 and OM4 fiber types.
- Built with elasticity stainless steel tube, suitable for different harsh environments application.
- Strong tensile strength, prolong the service life.
- Layouts can be wired much the same way as ordinary electric cable installations.
- Available in standard and custom lengths.

#### Cable Structure

The armoured cable is round. includes: tight-buffered fiber, stainless steel tube, aramid yarn and outer jacket.



#### Optical Branching Device

According to tight buffer fiber counts, there are several different types of branching device.



#### Cable Specification

Item	Simplex	Duplex	4 cores	6 cores	12 cores
Tight Buffer OD (mm)	0.9 ± 0.05	0.6 ± 0.05			
Outer diameter (mm)	2.8 ± 0.1	3.0 ± 0.1	3.9 ± 0.1	4.4 ± 0.1	5.9 ± 0.1
Outer jacket	PVC, LSZH, PE		Minimal Bending radius		≥20D
Standard color	Blue or Yellow (Singlemode), Gray (Multimode). other colors available upon request				
Operating temperature	-40°C to +70°C		Storage temperature		-40°C to +70°C

Note: "D" is Cable Outer Diameter.

#### 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		

#### Ordering Information

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

Part Number: **APC-AA-BB-CDEFGCL**

#### Ordering Guide

AA	BB	C	D	E	F	G	CL
Connector Type	Connector Type	Fiber Type	Fiber Count	Length	Branch Cable Length	Jacket Materia	Jacket Color(CL)
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	SX=Simplex DX=Duplex 4F=4 cores 12F=12 cores	0015=1.5M 0200=20M 1000=100M	02=0.2M 03=0.3M 05=0.5M	1=PVC 2=LSZH	BL=Blue YE=Yellow GR=Gray

#### Ordering Sample

Part Number	Description
APC-LP-LP-G652D6F0100031BL	LC/PC-LC/PC Armoured Fiber Optic Patch Cord, Singlemode G652D, 6 Cores, PVC, Blue, 0.3M Branch Length, 10M.