

Sales Catalog of HNK Telecommunication Products

Fiber Optic Patch Cord /Pigtail

Waterproof Fiber Optic Cable Patch Cord /Pigtail

Our waterproof fiber optic patch cord /pigtail is made up with high quality connectors, outdoor waterproof fiber optic cable and waterproof stainless-steel joint assembly. This kind of cable is usually used in harsh environment like communication towers, CATV and military, also used as interconnect lines in outdoor different buildings.

We produce the fiber optic waterproof pigtails strictly according to IEC and EIA/TIA standards, the products feature low insertion loss, high return loss, good interchangeability and repeat push-pull performance, which make them easy to use.

Pigtail (only one end connected)



Patch Cord (connected with two ends)



Fanout Cable Color (same or different colors)



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

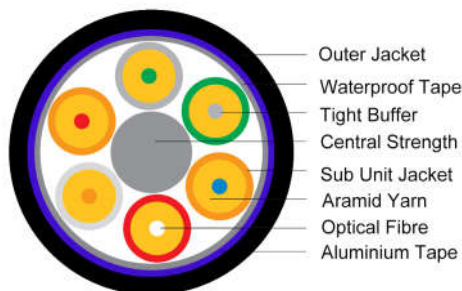


waterproof stainless-steel joint assembly

Features

- 100% tested on optical performance (Insertion Loss & Return Loss).
- 2, 4, 6, 8 and 12 cores are available, singlemode or Multimode fiber optional.
- Various kinds of connect interfaces optional such as LC, SC, FC, ST, MTRJ, MU, E2000, etc.
- Good mechanical and environmental characteristics, excellent high tensile strength, ultraviolet, environmental protection, water and moisture resistance.

Cable Cross Section



Waterproof cable uses simplex cable (Φ900µm tight buffer fiber, aramid yarn as strength member) as sub units. Steel wire in the center of core as a strength member. The sub units are stranded around the cable core. An aluminum polyethylene laminate is applied around the cable core. The cable is completed with a PE jacket.

Specifications

Item	Description					
Fiber Type	G652D, G657A, OM1, OM2, OM3 and OM4. or another types of fiber.					
Outer Jacket Material	PE(Polyethylene)		Outer Jacket Color		Black	
Fiber Count (Cores)	2	4	6	8	10	12
Outer Diameter (mm)	8.7	8.7	10	11.7	13.3	15
Fanout Cable Color	12 Different Colors		Fanout Cable Outer Diameter		3.0mm	
Min. Tensile Load (Short Term)	1500N		Min. Tensile Load (Long Term)		600N	
Min. Crush Load (Short Term)	1000N/100mm		Min. Crush Load (Long Term)		300N/100mm	
Bend Radius-Dynamic (mm)	20D		Bend Radius-Static (mm)		10D	
Operating Temperature	-40°C to +70°C		Storage Temperature		-40°C to +70°C	

Note: "D" is cable outer diameter.



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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.

Patch Cord Part Number: **WPC-AA-BB-CDEFGHCL** Pigtail Part Number: **WPT-AA-CDEFGHCL**

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 Material	Jacket Color (CL)
05=0.5M 10=1M 15=1.5M	0010=10M 0150=150M	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: standard color is black (other colors may be available upon request).

Ordering Sample

Part Number	Description
WPC-SP-SP-OM12F0500203BK	SC/PC-SC/PC Waterproof Cable Fiber Optic Patch Cord, Multimode 62.5/125 OM1, 2 Cores, PE, Black, Fanout Cable Length 0.5M, Total Length 20M.
WPT-SA-G652D4F1000153BK	4 Cores SC/APC Singlemode G652D Waterproof Cable Fiber Optic Pigtail, Fanout Cable Length 1M, Total Length 15M, PE Jacket, Black.