

Fiber Optic Adaptor Series

Fiber Optic Adapters are an important component in a fiber optic network; they are used in a fiber optic patch panel or any other outlet to mate two connectors. Fiber Optic adapters are available for all standard connector types in both single mode and multimode including Simplex and duplex versions. Our fiber optic adapters are made with high precision machines which ensure precise alignment for the connectors when they are plugged in. Fiber Optic Adaptors are color coded allowing easy identification of the adaptor type.



We also offer hybrid and other special types of fiber optic adapters, such as Bare, shuttered and metal housing fiber optic adapters.

Standards Compliance

TIA/EIA-568-C.3

TIA/EIA-604

RoHS, REACH SvHC compliant

Features

- Made of high quality Zirconia ceramic sleeves
- 100% tested on optical performance (Insertion Loss & Return Loss)
- End-face geometry requirement complies to Telcordia GR-326-CORE
- For end-to-end fibre cable connectivity
- Available in singlemode and multimode, including APC and various colours
- Female to female & male to female adapters available
- Hybrid, Shuttered and Metal adapters available
- Coloured for easy identification

Environmental & Mechanical Data

Operating Temperature	-40 to +75° C
Storage Temperature:	-40 to +85° C
Temperature Cycling (61300-2-18)	-40 to +75° C, 40 cycles=0.2dB change
High temperature (61300-2-18)	70° c for 96Hrs, <0.4dB change
Damp Heat (61300-2-19)	40° C at 93%RH for 96 Hrs, <0.4dB change
Vibration-Mated Pair (61300-2-1)	10-55Hz, 1.5mm P to P <0.2dB change
Mating Durability (61300-2-2)	500 Mating Cycles, clean every 25, <0.2dB change

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.)			0.2dB Max. (0.15dB typ.)		
Return Loss	≥45 dB	≥50 dB	≥60 dB	N.A		
Insert Loss/MTRJ Connector	0.5dB Max. (0.45dB typ.)			0.5dB Max. (0.45dB typ.)		
Pull Strength	≥98N			≥98N		

Sales Catalog of HNK Telecommunication Products

Fiber Optic Adaptor

Ordering Information

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

Part Number: XX-AA-(BB)-(CD)E(FG)CL

Ordering Guide

XX	Adapter Type Code	AD, HAD, MAD
AA	Connector Type A (Female or Male)	FP,SP,SA,LP
BB	Connector Type B (Female)	FP,SP,SA,LP
C	Mode	SM=Singlemode MM=Multimode OM3=Multimode 10G
D	Fiber Type (only apply to MAD Type Adapter)	OM1=62.5/125 OM1 OM2=50/125 OM2 SM=9/125 Singlemode
E	Fiber Count	SX=Simplex, DX=Duplex, QD=Quad
F	Adapter Shape	F= flange type, S =Square Type, D=D type
G	Material	M=Metal, P=plastic
CL	Color(CL)	Blue for Singlemode PC Standard, Beige for Multimode Standard, Aqua for OM3/OM4 Standard and Green for Singlemode APC. (Metal Structure Unsuitable)

Adapter Type Code

AD	Standard Adapter (Female to Female Adapte)
HAD	Hybrid Adapter (Female to Female Adapte)
MAD	Male To Female Adapter
BAD	Bare Adapter
SAD	Shuttered Adapter

Connector Type Code

FP	FC/PC,FC/UPC	FA	FC/APC
SP	SC/PC, SC/UPC	SA	SC/APC
TP	ST/PC, ST/UPC	TA	ST/APC
LP	LC/PC, LC/UPC	LA	LC/APC
MU	MU	MT	MTRJ
DN	DIN	E2	E2000

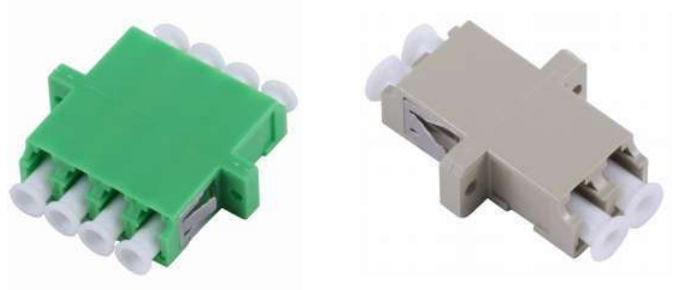
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Fiber Optic Adaptor

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LC Fiber Optic Adaptor

LC fiber optic adaptors are all ceramic sleeve; there are simplex LC adaptors and duplex LC adaptors, usually duplex LC fiber adaptors are with SC footprint. The LC fiber adaptors colors are same as SC fiber optic adaptors: blue for single mode PC, beige for multi mode PC and green for single mode APC.



Design & Materials

Adaptor material	High Impact flame retardant thermoplastic UL94-V0
Split Sleeve Material	ceramic
Capillary diameter tolerance (Single Mode)	126 ± 0.5µm
Capillary diameter tolerance (Multimode)	127± 0.5µm
Operating Temperature	-40 to +85° C
Storage Temperature:	-40 to +85° C
Mating durability	>500 Mating Cycles

Ordering Sample

Part Number	Description
AD-LP-MMQDPBE	LC/PC Multimode Quad Plastic Fiber Optic Adaptor, Beige.
AD-LA-SMSXPGR	LC/APC Singlemode Simplex Plastic Fiber Optic Adaptor, Green.

LC Hybrid Fiber Optic Adaptor

LC hybrid fiber optic adaptors are flanged type with metal housing, both single mode and multi mode adaptors are with ceramic sleeves. Hybrid adaptors are available in singlemode and multimode and many different configurations. They can be practically used in any application and connect different connector types.



Ordering Sample

Part Number	Description
HAD-LP-MU-SXM	LC/PC - MU/PC Simplex Metal Hybrid Fiber Optic Adaptor.
MAD-LP-SP-SMSXM	LC/PC - SC/PC Singlemode Simplex Meta Male To Female Type Fiber Optic Adaptor.