

FIBRE ADAPTOR

FIBRE ADAPTOR SPECIFICATION

Accell fibre adaptors are available for all standard connector types in both single mode and multimode including Simplex and duplex versions as per ANSI/TIA 568 C.3 Standard. Single mode adaptors are available with either Zirconia or phosphor bronze sleeves. Zirconia sleeves provide tighter tolerances, generally required for angled physical contact (APC) connectors. Multimode adaptors are available with phosphor Bronze sleeves, which provide good performance for spherical polished connectors. The adaptor sleeve aligns the ferrules and holds them in place. The adaptors are laser optimized and colour coded for easy identification of the adaptor type.

Accell hybrid Fibre optic adaptors are also available which are used to link different kinds of fibre optic connectors. Hybrid Adaptor specifications and functions are same as standard fibre optic adaptors.

MECHANICAL DATA

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

OPTICAL PERFORMANCE DATA

Item	Single mode			Multimode		
	PC	UPC	APC	62.5/125	50/125	50/125 10G
Insert. Loss/Adaptor (single Fibre)	0.2 dB Max. (0.15 dB typ.)			0.3 dB Max. (0.25 dB typ.)		
Return Loss	≥ 45 dB	≥ 50 dB	≥ 60 dB	N.A		
Insert. Loss/MTRJ	0.5dB Max. (0.45 dB typ.)			0.5 dB max. (0.45 dB typ.)		
Pull strength	≥ 98 N	≥ 98 N	≥ 98 N	≥ 98 N		

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PRODUCT OVERVIEW

LC fibre optic adaptors are used in conjunction with enclosures (Rack or Wall Mount) to provide a means to connect backbone to backbone or backbone to horizontal fibre cabling. They have plastic housing; there are simplex and duplex LC adaptors, duplex LC fibre adaptors are with SC simplex footprint. The LC fibre adaptors colours are Blue or SM/PC, Beige for MM/PC and Green for SM/APC. LC fibre optic adaptors are with bronze sleeve for multimode and Zirconia sleeve for single mode.

APPLICATION

CATV
 Active device/Transceiver, Telecommunication networks
 Multimedia Data processing networks
 Test equipment, Premise installations
 Gigabit Ethernet

DESIGN & MATERIALS

Adaptor Material	High Impact flame retardant thermoplastic UL94-V0
Capillary Diameter Tolerance (Single Mode)	126 ± 0.5 μm
Capillary Diameter Tolerance(Multimode)	127 ± 0.5 μm
Operating Temperature	-40 °C to +85 °C
Storage Temperature:	-40 °C to +85 °C
Mating Durability	> 500 Mating Cycles

ORDERING INFORMATION

Part Number	Description
AFA1SLL1X	LC Singlemode Simplex Adaptor
AFA1MLL1X	LC Multimode Simplex Adaptor
AFA2SLL1X	LC Singlemode Duplex Adaptor
AFA2MLL1X	LC Multimode Duplex Adaptor

PACKING INFORMATION

Product Type	Packing Length	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
LC Simplex	100 x 5 x 10	Carton Box	12.0	13.0	545 x 260 x 395
LC Duplex	50 x 5 x 10	Carton Box	10.5	11.5	545 x 260 x 395