The Datasheet of Fiber Adapter

Fiber adapter

An adapter is a mechanical device designed to align fiber-optic connectors. It contains the interconnect sleeve, that holds the two ferrules together.

Features:

Low insertion loss, high return loss
Good compatibility
High precision of mechanical dimensions
High reliability & stability
Ceramic or Bronze Sleeve
PC、APC、UPC optional
Simplex / Duplex

Application:

Local Area Network
CATV System
Telecommunication Networks
Equipment Test

Specification:

| Parameter	Unit	LC, SC, FC, MU, ST, SC-ST, FC-ST, FC-SC, FC-LC, FC-MU				MTRJ			E2000	
		SM			MM	SM		MM	SM	
		PC	UPC	APC	PC	PC	UPC	PC	PC	APC
Insertion Loss (Typical)	dB	≤0.3	≤0.2	≤0.3	≤0.2	≤0.3	≤0.2	≤0.2	≤0.3	≤0.3
Return Loss	dB	≥45	≥50	≥60	≥30	≥45	≥50	≥35	≥55	≥75
Exchangeability	dB	≤0.2				≤0.2			≤0.2	
Repeatability	dB	≤0.2				≤0.2			≤0.2	
Durability	Time	＞1000				＞1000			＞1000	
Operating Temperature	℃	-40~75				-40~75			-40~75	
Storage Temperature	℃	-45~85				-45~85			-45~85	
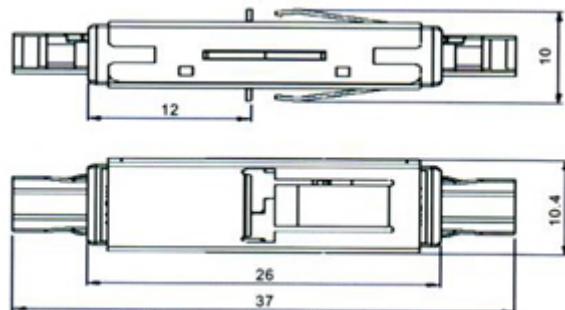
FC fiber optic adapters are with metal or plastic housing, single-mode FC adapters are with zirconia sleeves, multi-mode FC adapters are with bronze sleeves.

ST fiber optic adapters are all threaded type with metal or plastic housing, single mode ones are with zirconia sleeve and multimode ones are with bronze sleeve.

LC Adapters were developed by Lucent Technologies. They are composed of a plastic housing with an RJ45 push-pull style clip.

SC fiber optic adapters are flange type, single mode adapters are with zirconia sleeve while multimode fiber adapters are with bronze sleeve.

MU adapters are approximately half the size of an SC coupler and utilize zirconia sleeves for precision alignment.

The E2000 connector and adapter have set the standard for optical fibre interconnect .With a shutter on both the connector and adapter to prevent laser eye damage the E2000 offers features no other connector can match. The E2000 aslo has a latched lever mechanism to prevent accidental disconnection.

Fiber Optical Adaptor Types

-FC Types:
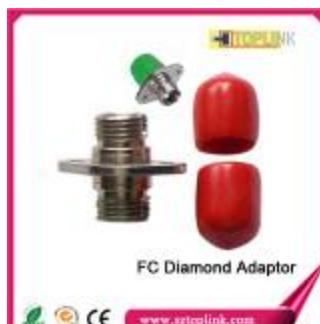
| FC Square Adaptor (Integrative type) | FC Square Adaptor (Split type) | FC Rectangular Adaptor (Metal) | FC Big D Adaptor |

| FC Small D Adaptor | FC Diamond Adaptor | FC Rectangular Adaptor (Plastic) | FC Duplex Adaptor (SM,MM,APC) |

-ST Types:

ST Simplex Adaptor (Metal)	ST Simplex SM Adaptor (Plastic)	ST Simplex MM Adaptor (Plastic)	ST Adaptor,Center with square plate
ST Duplex Adaptor (Metal)	ST Duplex SM Adaptor (Plastic)	ST Duplex MM Adaptor (Plastic)	ST APC Duplex Adaptor (Plastic)

-LC Types:

LC Simplex SM Adaptor	LC Simplex MM Adaptor	LC APC Simplex Adaptor	LC Duplex SM Adaptor(RJ45 type)

LC Duplex SM Adaptor(SC type)	**LC Duplex MM Adaptor(RJ45 type)**	**LC Duplex MM Adaptor(SC type)**	**LC APC Duplex Adaptor(RJ45 type)**
LC APC Duplex Adaptor(SC type)	**LC Duplex OM3 Adaptor(RJ45 type)**	**LC Duplex OM3 Adaptor(SC type)**	**LC Quad Adaptor (SM,MM,APC)**

-SC Types:

SC Simplex SM Adaptor(Plastic)	**SC Simplex MM Adaptor(Plastic)**	**SC APC Simplex Adaptor(Plastic)**	**SC Simplex Metal Adaptor(SM,MM,APC)**

SC Duplex SM Adaptor(Plastic)	SC Duplex MM Adaptor(Plastic)	SC/APC Duplex Adaptor(Plastic)	SC Duplex Metal Adaptor (SM,MM,APC)

SC Duplex SM Adaptor(Plastic) **SC Duplex MM Adaptor(Plastic)** **SC APC Duplex Adaptor(Plastic)** **SC Duplex Metal Adaptor(SM,MM,APC)**

-Other Types:

E2000 Adaptor **DIN Adaptor** **MPO Adaptor** **MU Adaptor**

MT-RJ Metal Adaptor **MT-RJ PlasticAdaptor**