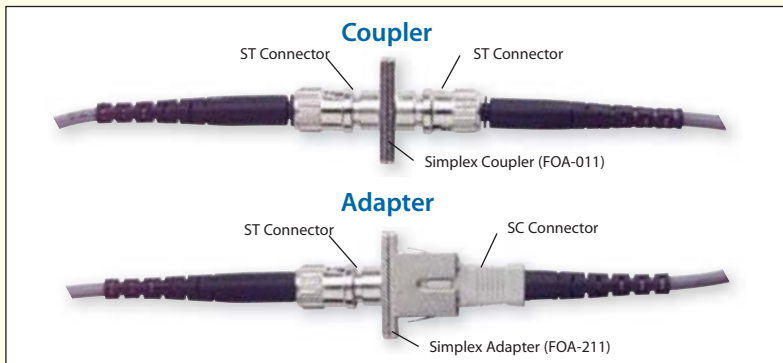
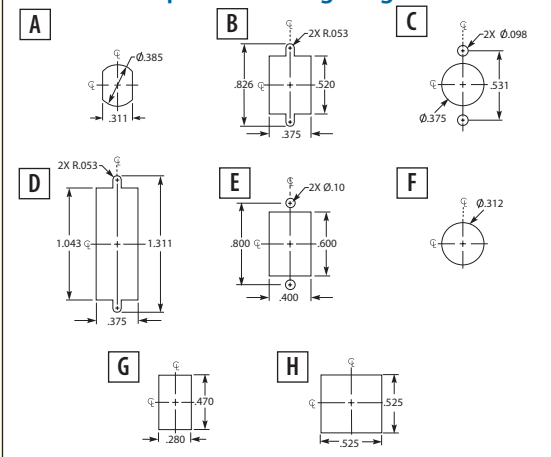


Fiber Optic Couplers and Adapters

These devices are used to join together individual connectorized fiber assemblies. They are often used in a patch panel and are mounted on sub-panels. If the two fiber assemblies to be connected have the same style fiber connectors (ST to ST, SC to SC, etc.) then the connecting device is called a coupler. If the two fiber assemblies to be connected have different style connectors then the connecting device is called an adapter.

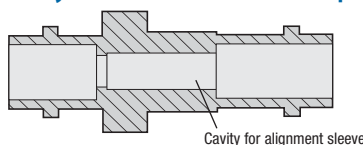


Common Adapter Mounting Diagrams



The alignment sleeve is the most critical component of a fiber optic adapter. Bronze sleeves are more durable but the precision is not as good as ceramic. Ceramic ferrules offer a more precise alignment, but they are somewhat less durable. Bronze alignment sleeves are commonly used in multimode applications where precision alignment is not as critical.

Cutaway Side View of ST-ST Coupler



CERAMIC Alignment Sleeve



- Better alignment
- More expensive

BRONZE Alignment Sleeve



- Better durability
- Less expensive



Item #	Description	Body	Sleeve	Mtg. Code	1-9	10-24	25-99	100-249	250-499
✓RoHS ST to ST Simplex Fiber Optic Couplers									
FOA-001	Simplex ST Fiber Coupler	Metal	Bronze	A	3.00	2.88	2.76	2.55	2.25
FOA-001A	Simplex ST Fiber Coupler	Metal	Ceramic	A	5.00	4.80	4.60	4.25	3.75
FOA-011	Simplex ST Fiber Coupler	Metal	Bronze	B	3.00	2.88	2.76	2.55	2.25
FOA-011A	Simplex ST Fiber Coupler	Metal	Ceramic	B	5.00	4.80	4.60	4.25	3.75
✓RoHS ST to ST Duplex Fiber Optic Couplers									
FOA-401	Duplex ST Fiber Coupler	Metal	Bronze	D	5.00	4.80	4.60	4.25	3.75
FOA-401A	Duplex ST Fiber Coupler	Metal	Ceramic	D	10.00	9.60	9.20	8.50	7.50
✓RoHS SC to SC Simplex Fiber Optic Couplers									
FOA-002	Simplex SC Fiber Coupler	Plastic	Bronze	B	4.00	3.84	3.68	3.40	3.00
FOA-002A	Simplex SC Fiber Coupler	Plastic	Ceramic	B	5.50	5.28	5.06	4.67	4.13
FOA-002M	Simplex SC Fiber Coupler	Metal	Bronze	B	5.00	4.80	4.60	4.25	3.75
FOA-002MA	Simplex SC Fiber Coupler	Metal	Ceramic	B	7.50	7.20	6.90	6.38	5.63
✓RoHS SC to SC Duplex Fiber Optic Couplers									
FOA-005	Duplex SC Fiber Coupler	Plastic	Bronze	D	5.50	5.28	5.06	4.67	4.13
FOA-005A	Duplex SC Fiber Coupler	Plastic	Ceramic	D	8.00	7.68	7.36	6.80	6.00
FOA-005M	Duplex SC Fiber Coupler	Metal	Bronze	D	8.00	7.68	7.36	6.80	6.00
FOA-005MA	Duplex SC Fiber Coupler	Metal	Ceramic	D	10.00	9.60	9.20	8.50	7.50
✓RoHS FC to FC Simplex Fiber Optic Couplers									
FOA-003	Simplex FC Fiber Coupler	Metal	Bronze	C	6.50	6.24	5.98	5.52	4.88
FOA-003A	Simplex FC Fiber Coupler	Metal	Ceramic	C	9.50	9.12	8.74	8.07	7.13
FOA-013	Simplex FC Fiber Coupler	Metal	Bronze	B	6.50	6.24	5.98	5.52	4.88
FOA-013A	Simplex FC Fiber Coupler	Metal	Ceramic	B	9.50	9.12	8.74	8.07	7.13
FOA-033	Simplex FC Fiber Coupler	Metal	Bronze	A	6.50	6.24	5.98	5.52	4.88
FOA-033A	Simplex FC Fiber Coupler	Metal	Ceramic	A	9.50	9.12	8.74	8.07	7.13
✓RoHS SMA to SMA Fiber Optic Coupler									
FOA-004	SMA Fiber Coupler	Metal	None	F	19.95	18.75	17.56	16.36	15.16
✓RoHS LC to LC Simplex/Duplex Fiber Optic Couplers									
FOA-500A	Simplex LC Fiber Coupler	Plastic	Ceramic	G	9.95	9.55	9.15	8.46	7.46
FOA-550A	Duplex LC Fiber Coupler	Plastic	Ceramic	H	13.75	13.20	12.65	11.69	10.31
FOA-801	Duplex LC Fiber Coupler	Plastic	Ceramic	B	12.95	12.69	12.43	12.17	11.91
FOA-802	Duplex LC Fiber Coupler	Plastic	Bronze	B	5.95	5.83	5.71	5.59	5.47
FOA-803	Duplex LC Fiber Coupler	Plastic	Bronze	H	3.95	3.87	3.79	3.71	3.63
✓RoHS LC to LC Quad Fiber Optic Couplers									
FOA-560	Quad LC Fiber Coupler	Plastic	Bronze	D	15.95	15.31	14.67	13.56	11.96
FOA-570	Quad LC Fiber Coupler	Plastic	Ceramic	D	19.95	19.15	18.35	16.96	14.96
✓RoHS MT-RJ to MT-RJ Fiber Optic Coupler									
Use of this coupler requires one of the two mating MT-RJ connectors to contain alignment pins.									
FOA-600	MT-RJ Fiber Coupler	Plastic	None	B	4.00	3.84	3.68	3.40	3.00
✓RoHS MPO to MPO Fiber Optic Coupler									
FOA-012	MPO Fiber Coupler	Plastic	None	E	18.95	18.19	17.43	16.11	14.21

What is the difference between a fiber optic coupler and adapter?

Although the terms are sometimes interchanged, a coupler typically connects like connectors (i.e. SC to SC), while adapters connect different connectors (i.e. SC to FC).