

FIBER OPTICS



FIBER OPTICS CONNECTORS AND SPLICES

Connector Types

Multimode

SC: Push/pull mechanics. Square plastic body latches by pushing into place. Most popular multimode type. Color-beige.
 ST: Bayonet style, twist to latch in place. Round body early design by AT&T. Color-beige.

Singlemode

SC: Differs from SC multimode in color and endface geometry. Most popular singlemode type.
 FC: Screw on early type. Difficult to attach and remove.

Note: Single mode connectors differ from similar multimode types in that the angle of the contact endface geometry varies.

The types are:

- Physical Contact (PC), Color-blue.
- Ultra Physical Contact (UPC), Color-blue.
- Angled Physical Contact (APC), Color-green.

Splices

Two basic types are in wide use.

1. Mechanical. Mechanical splices attach the two cable ends using a clamp and/or epoxy.
2. Fusion. Melts the two fiber ends together.

MULTIMODE PATCHCORDS

Preferred in Datacom Applications

Simplex



Fig. 1

Fig. 2

Duplex



Fig. 3

Fig. 4

Simplex

Retail Part No.	Figure Number	Description
45-6100	1	SC/MM to SC/MM, 1 Meter
45-6101	1	SC/MM to SC/MM, 3 Meter
45-6102	1	SC/MM to SC/MM, 5 Meter
45-6103	1	SC/MM to SC/MM, 10 Meter
45-6112	2	ST/MM to ST/MM, 5 Meter
45-6113	2	ST/MM to ST/MM, 10 Meter
45-6117	1 & 2	ST/MM to SC/MM, 1 Meter
45-6118	1 & 2	ST/MM to SC/MM, 3 Meter

Duplex

Retail Part No.	Figure Number	Description
45-6120	3	SC/MM to SC/MM, 1 Meter
45-6122	3	SC/MM to SC/MM, 5 Meter
45-6123	3	SC/MM to SC/MM, 10 Meter
45-6126	4	ST/MM to ST/MM, 1 Meter
45-6127	4	ST/MM to ST/MM, 3 Meter
45-6129	4	ST/MM to ST/MM, 10 Meter
45-6135	3 & 4	ST/MM to SC/MM, 1 Meter

FIBER OPTICS

For the latest information—www.gcelectronics.com

All quantities are single; BU's are packages of 10 Unless otherwise noted.

SINGLEMODE PHYSICAL CONTACT PATCHCORDS

Preferred in Telecom Applications



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Singlemode Physical Contact Patchcords

Retail Part No.	Figure Number	Description
45-6141	1	SC/PC to SC/PC, 3mm Fiber, 5 Meter
45-6145	2	FC/PC to FC/PC, 3mm Fiber, 3 Meter
45-6146	2	FC/PC to FC/PC, 3mm Fiber, 5 Meter
45-6150	3	SC/PC to FC/PC, 3mm Fiber, 3 Meter
45-6151	4	SC/PC to FC/PC, 3mm Fiber, 5 Meter

SINGLEMODE ANGLED PHYSICAL CONTACT PATCHCORDS

Preferred in Telecom Applications



Fig. 5



Fig. 6



Fig. 7



Fig. 8

Singlemode Angled Physical Contact Patchcords

Retail Part No.	Figure Number	Description
45-6160	5	SC/APC to SC/APC, 3mm Fiber, 3 Meter
45-6161	5	SC/APC to SC/APC, 3mm Fiber, 5 Meter
45-6165	6	FC/APC to FC/APC, 3mm Fiber, 3 Meter
45-6166	6	FC/APC to FC/APC, 3mm Fiber, 5 Meter
45-6167	7 & 8	SC/APC to FC/APC, 3mm Fiber, 3 Meter
45-6168	7 & 8	SC/APC to FC/APC, 3mm Fiber, 5 Meter