

## ST Connectors — Epoxy Type

### Product Facts

- Epoxy type connector
- Pre-radiused ceramic ferrule
- Available in bulk packages
- Crimp tool  
Part Number 58433-4

### Singlemode Ceramic

#### Performance Characteristics

**Insertion Loss** — 0.3 dB typical  
**Back Reflection** — <-40 dB typical  
**Durability** — 200 cycles

#### Materials

**Ferrule Material** — Ceramic  
**Body Material** — Nickel Plated Brass  
**Coupling Nut Material** —  
Plated Die Cast

### Ceramic



### Singlemode ST Connector Kits — Ceramic Ferrule

Body	Coupling Nut	Boot Color	Used With	Individual Pack Part Number	Bulk Pack Part Number	IS Sheet
Nickel-plated Brass	Zinc	Yellow (900 µm)	900 µm and 250 µm Fibers	5503613-2	5503613-3	408-9645
	Zinc	Yellow (Bend-Limiting)	900 µm and 250 µm Fibers, 3.0 mm Cable	5502579-2	—	408-9645
	Zinc	Yellow (Short)	900 µm and 250 µm Fibers, 3.0 mm Cable	5502580-2	5502580-4	408-9645

### Multimode Ceramic

#### Performance Characteristics

**Insertion Loss** — 0.3 dB typical  
**Durability** — 500 cycles

### Ceramic



### Multimode ST Connector Kits — Ceramic Ferrule

Body	Coupling Nut	Boot Color	Used With	Individual Pack Part Number	Bulk Pack Part Number	IS Sheet
Polymer	Polymer	Black (Short)	3.0 mm Cable	—	503569-2	408-9971
		Black (Short)	900 µm Fiber, 3.0 mm Cable	503571-1	—	408-9971
		Black (Buffer)/ Black (Short)	900 µm and 250 µm Fibers, 2.4 mm & 3.0 mm Cable	5503571-3	—	408-9971
		Zinc	Black (Short)	3.0 mm Cable	503677-2	503677-1
Nickel-plated Brass	Zinc	Black (Short)	3.0 mm Cable	—	5492458-2	408-9645
		Black (Buffer)/ Black (Short)	900 µm and 3.0 mm Cable	5492458-1	—	408-9645
		Black (Buffer)/ Black (Bend Limiting)	900 µm and 250 µm Fibers, 2.4 mm & 3.0 mm Cable	5501380-1	—	408-9645
		Black (Short)	2.4 mm & 3.0 mm Cable	1-5501380-6	2-5501380-0	408-9645
		Black (Right Angle)	900 µm and 250 µm Fibers, 2.4 mm & 3.0 mm Cable	5502674-1	—	408-9645

**Note:** All part numbers are RoHS compliant.

**ST Connectors — Epoxy Type (Continued)**

**Multimode  
Polymer Composite**

**Performance Characteristics**

**Insertion Loss** — 0.3 dB Typical  
**Durability** — 500 Cycles  
**Crimp Tool** — Part Number 58433-4  
**Instruction Sheet** — 408-9971  
<http://www.tycoelectronics.com/documents>

**Materials**

**Ferrule** — Composite Polymer  
**Body** — Polymer  
**Coupling Nut** — Polymer

**Polymer Composite**



**Multimode ST Connector Kits — Polymer Ferrule**

Body	Coupling Nut	Boot Color	Used With	Individual Pack Part Number	Bulk Pack Part Number
Polymer	Polymer	Black (Buffer)/ Black (Short)	900 µm and 250 µm Fibers, 3.0 mm Cable	5503415-1	—
		Black (Short)	3.0 mm Cable	—	503424-3

**Stainless Steel**

**Multimode  
Stainless Steel**

**Performance Characteristics**

**Insertion Loss** — 0.3 dB Typical  
**Operating Temp. Range** —  
 -30°C to +70°C  
**Durability** — 500 cycles  
**Crimp Tool** — Part Number 58551-1  
**Instruction Sheet** — 408-4151  
<http://www.tycoelectronics.com/documents>



**Materials**

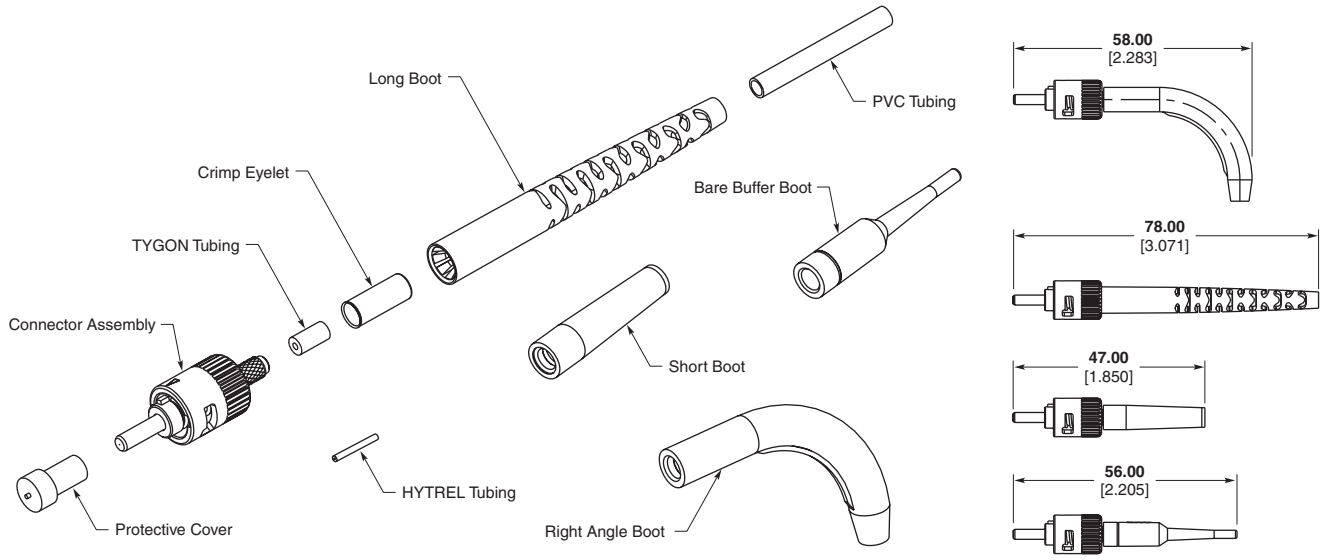
**Ferrule** — Stainless Steel  
**Body** — Nickel plated brass  
**Coupling Nut** — Zinc

**Multimode ST Connector Kits — Stainless Steel Ferrule**

Body	Ferrule Designation	Boot Color	Used With	Part Number
Stainless Steel	125	Black (Bend Limiting)	3.0 mm Cable	5504008-3
		Black (Long)	4.3 mm Cable	5504008-4
	140	Black (Bend Limiting)	3.0 mm Cable	5504008-7
	231	Black (Bend Limiting)	3.0 mm Cable	1-5504008-4
	240	Black (Bend Limiting)	3.0 mm Cable	1-5504008-3
	280	Black (Short)	3.0 mm Cable	4-5504008-6

**Note:** All part numbers are RoHS compliant.

**ST Connectors — Epoxy Type (Continued)**



**ST Connector Component Selection Chart (Bulk Packaged)**

Fiber Type	Connector Sub-Assembly	Cable Size	Crimp Eyelet	Tubing	Strain Relief Part Number*
Singlemode - Ceramic Ferrule Metal Body, Metal Nut	5502578-2	1.6-2.0 mm	501971-3	5501275-2	503219-X
		2.4 mm	501971-3	5501275-1	502128-X
		2.4 mm	501971-3	5501275-1	501457-X
		3.0 mm	501971-3	—	502128-X
		3.0 mm	501971-3	—	501457-X
Multimode - Ceramic Ferrule Metal Body, Metal Nut	5492458-5	900 µm	501971-3	502179-7	5503628-X
		1.6-2.0 mm	501971-3	5501275-2	503219-X
		2.4 mm	501971-3	5501275-1	502128-X
		2.4 mm	501971-3	5501275-1	501457-X
		3.0 mm	501971-3	—	502128-X
Multimode - Ceramic Ferrule Metal Body, Polymer Nut	5501458-8	3.0 mm	501971-3	—	501457-X
		3.0 mm	501971-3	—	501457-X
		900 µm	501971-3	502179-7	5503628-X
		1.6-2.0 mm	501971-3	5501275-2	503219-X
		2.4 mm	501971-3	5501275-1	502128-X
Multimode - Ceramic Ferrule Polymer Body, Metal Nut	503676-5	2.4 mm	501971-3	5501275-1	501457-X
		3.0 mm	501971-3	—	502128-X
		3.0 mm	501971-3	—	501457-X
		900 µm	501971-3	502179-7	5503628-X
		1.6-2.0 mm	501971-3	5501275-2	503219-X
Multimode - Ceramic Ferrule Polymer Body, Polymer Nut	503676-4	2.4 mm	501971-3	5501275-1	502128-X
		2.4 mm	501971-3	5501275-1	501457-X
		3.0 mm	501971-3	—	502128-X
		3.0 mm	501971-3	—	501457-X
		900 µm	501971-3	502179-7	5503628-X

\* Strain relief dash number indicates color - see chart on page 63 for details.

TYGON is a trademark of Saint-Gobain Performance Plastics Corporation.  
HYTREL is a trademark of E.I. du Pont de Nemours and Company.

**Note:** All part numbers are RoHS compliant.

## ST Connectors — Epoxy Type (Continued)



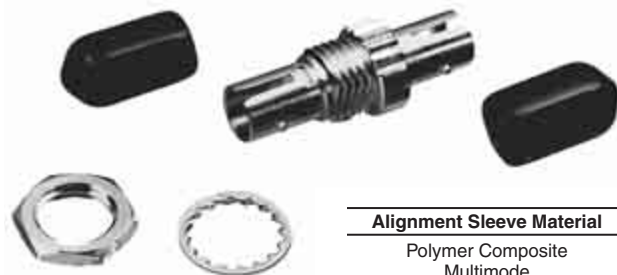
### Strain Relief Bulk packages (100 pcs./package)

Color	Bend Limiting	Short (3.0 mm)	Right Angle	Buffer	Short (2.0 mm)	Bend Limiting (2.0 mm)
Black	502128-1	501457-1	5502667-1	5503628-1	503219-1	233454-4
Blue	502128-7	501457-5	5502667-2	—	—	233454-2
Beige	—	501457-4	—	1-5503628-9	503219-4	233454-6

### Product Facts

- Free-hanging or panel mount design

### ST Coupling Receptacles



Alignment Sleeve Material	Packaging	Part Number
Polymer Composite Multimode	Single	501381-1
	Bulk (1000)	501381-2
Metal Multimode	Single	504021-1
	Bulk (50)	504021-2
Zirconia Ceramic Singlemode	Single	502750-1
	Bulk (50)	502750-2

### ST Polymer Duplex Receptacle



Alignment Sleeve Material	Color	Part Number
Metal/MM Only	Beige	504662-2
Metal/MM Only	Lt. Almond	504662-1

## ST Active Device Mounts — Multimode

### Product Facts

- Designed to accept multimode TO-18, TO-46 and TO-52 active devices
- Nickel plated, die cast zinc
- Mount to PCB or through panel
- Includes positioning ring



Description	Packaging	Height	Part Number
Standard height	Single	.410	5501474-1
Low profile	Single	.280	5502585-2
Low profile	Single (100)	.314	5504022-2
Low profile	Bulk (50)	.314	5504022-3

**Note:** All part numbers are RoHS compliant.