

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	408-9971
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

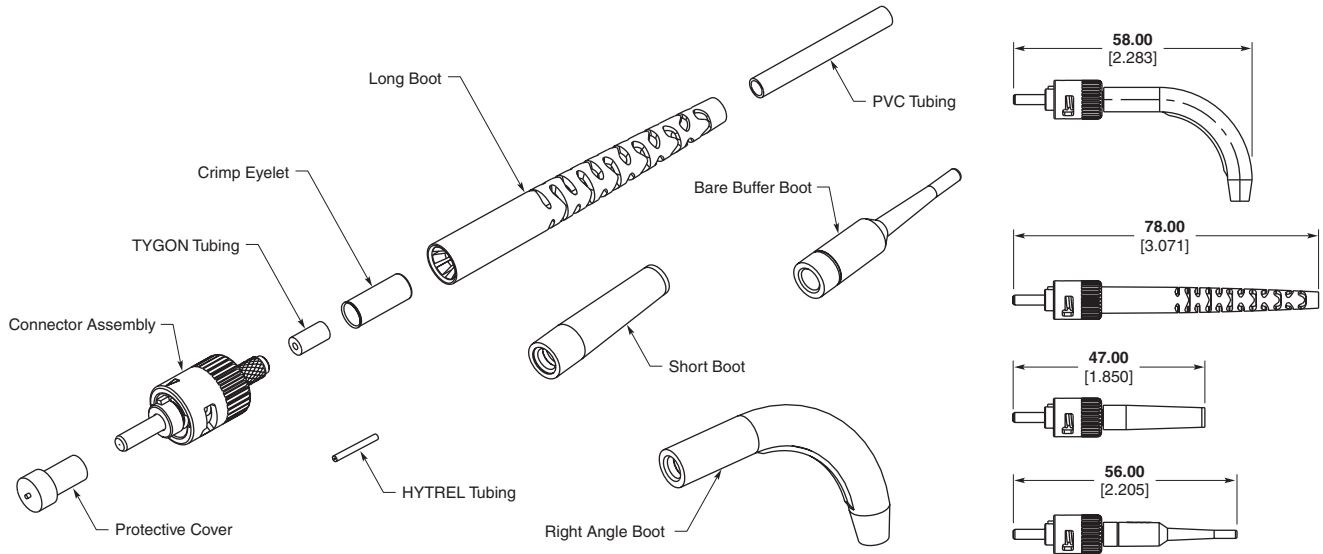
Ferrule — Stainless Steel
Body — Nickel plated brass
Coupling Nut — Zinc

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	—	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
		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.

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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	Single	501381-1
	Bulk (1000)	501381-2
Metal	Single	504021-1
	Bulk (50)	504021-2
Zirconia Ceramic	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.