

SC Connectors

Product Facts

- One-piece connector body:
 - Fastest assembly
 - Field installable
 - Anaerobic epoxy compatible
- Compliant with
 - JIS C-5973
 - Fibre Channel
 - TIA FOCIS-3
- Pre-radiused ferrules
- For 125 μm cladding diameter



Performance Characteristics

Insertion Loss — <0.2 dB Typical
Return Loss — <-55 dB Typical
Durability — 200 Cycles

Singlemode SC Connector Kits - Polymer Crimp Body

| Ferrule Type | Crimp Body Material | Jacket Size | Simplex / Duplex | Indiv. Pack w/ Strain Relief | Bulk Pack No Strain Relief | Bulk Pack w/ Strain Relief | Crimp Tool | Instruction Sheet |
|--------------|---------------------|-------------|------------------|------------------------------|----------------------------|----------------------------|------------|-------------------|
| Ceramic | Polymer | 3.0 mm | Simplex | 5504646-1 | 5504646-5 | 5504646-3 | 503911-1 | 408-8674 |
| Ceramic | Polymer | 3.0 mm | Duplex | 5504655-1 | 5504655-3 | 5504655-2 | 503911-1 | 408-8674 |
| Ceramic | Polymer | 900μm | Simplex | 5492123-1 | 5492123-7 | 5492123-2 | n/a | 408-8674 |
| Ceramic | Polymer | 2.0 mm | Simplex | 504934-1 ♦ | — | 504934-2 ♦ | 503911-1 | 408-4208 |

Performance Characteristics for GR-326 Style Product

Insertion Loss — <0.2 dB Typical
Return Loss — <-59 dB Typical
Durability — 200 Cycles
Tested to GR-326 (Test Report 501-584)
Tunable — 6 positions

GR-326 Style Singlemode SC Connector Kits - Metal Crimp Body

| Ferrule Type | Crimp Body Material | Jacket Size | Simplex / Duplex | Indiv. Pack w/ Strain Relief | Bulk Pack w/ Strain Relief | Crimp Tool | Instruction Sheet |
|--------------|---------------------|-------------|------------------|------------------------------|----------------------------|-----------------------------|-------------------|
| Ceramic | Metal | 3.0 mm | Simplex | 6457215-4 | 6457215-2 | (1) 492131-1 (1) 58532-1 | 408-8674 |
| Ceramic | Metal | 3.0 mm | Duplex | 1754599-2 | 1754599-4 | (1) 492131-1 (1) 58532-1 | 408-8674 |
| Ceramic | Metal | 2.4 mm | Simplex | 6588714-5 | 6588714-6 | 1588176-1 | 408-8674 |
| Ceramic | Metal | 2.4 mm | Duplex | 6693776-5 | 6693776-6 | 1588176-1 | 408-8674 |
| Ceramic | Metal | 1.6-2.0 mm | Simplex | 6588714-2 | 6588714-4 | 1588176-1 | 408-8674 |
| Ceramic | Metal | 1.6-2.0 mm | Duplex | 6693776-2 | 6693776-4 | 1588176-1 | 408-8674 |

Performance Characteristics

Insertion Loss — <0.2 dB Typical
Durability — 500 Cycles
TIA 586B Compliant

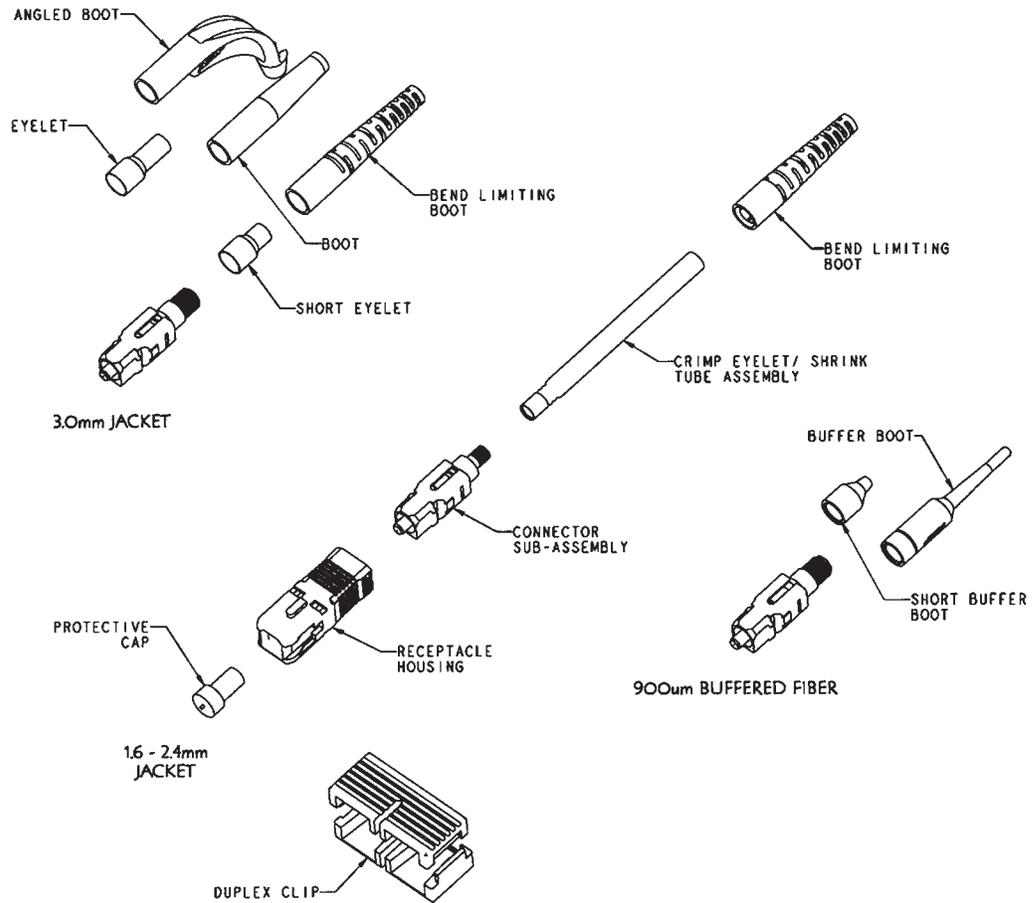
Multimode SC Connector Kits

| Ferrule Type | Crimp Body Material | Jacket Size | Simplex / Duplex | Indiv. Pack w/ Strain Relief | Bulk Pack No Strain Relief | Bulk Pack w/ Strain Relief | Crimp Tool | Instruction Sheet |
|--------------|---------------------|-------------|------------------|------------------------------|----------------------------|----------------------------|------------|-------------------|
| Ceramic | Polymer | 3.0 mm | Simplex | 5503948-1 | 5503948-3 | 5503948-2 | 503911-1 | 408-8674 |
| Ceramic | Polymer | 3.0 mm | Duplex | 5504657-1 | 5504657-3 | 5504657-2 | 503911-1 | 408-4211 |
| Ceramic | Metal | 2.4 mm | Simplex | 6588715-3 | 6588715-4 | — | 1588176-1 | 408-8674 |
| Ceramic | Metal | 2.4 mm | Duplex | 6693775-3 | 6693775-4 | — | 1588176-1 | 408-8674 |
| Ceramic | Metal | 1.6-2.0 mm | Simplex | 6588715-1 | 6588715-2 | — | 1588176-1 | 408-8674 |
| Ceramic | Metal | 1.6-2.0 mm | Duplex | 6693775-1 | 6693775-2 | — | 1588176-1 | 408-8674 |
| Ceramic | Polymer | 900 μm | Simplex | 5504932-1 | 503948-7 | 5504932-2 | n/a | 408-8674 |

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

SC Connectors (Continued)

SC Connector Components



SC Duplex Clip (Black)
Part Number 1348522-1



SC Connector Component Selection Chart (bulk packaged)

| Fiber Type | Simplex Connector Sub-Assembly | Duplex Clip* | Cable Size | Crimp Eyelet w/ Heat Shrink | Crimp Eyelet | Strain Relief Part Number** |
|---------------------------------|--------------------------------|---------------|------------|-----------------------------|--------------|---------------------------------------|
| Singlemode - GR-326 Style | 6588714-3 | (2) 6348522-1 | 1.6-2.0 mm | 6374150-1 | — | 1588153-X |
| | 6457215-5 | (2) 6348522-1 | 2.4 mm | 6588189-1 | — | 1588153-X |
| Singlemode - Polymer Crimp Body | 492123-7 | (2) 6348522-1 | 3.0 mm | — | 504973-3 | 1588491-X |
| | | | 2.4 mm | — | 503970-6 | 5503971-X |
| | | | 3.0 mm | — | 503970-3 | 5503971-X |
| | | | 900 μm | — | — | 6457493-X (long) 6278309-X (short) |
| Multimode - Ceramic Ferrule | 6588715-5 | (2) 6348522-1 | 1.6-2.0 mm | 6374150-1 | — | 1588153-X |
| | | | 2.4 mm | 6588189-1 | — | 1588153-X |
| | | | 3.0 mm | — | 503970-3 | 5503971-X |
| | 5503948-7 | (2) 6348522-1 | 900 μm | — | — | 6457493-X (long) 6278309-X (short) |

* For Fibre Channel compliant assemblies, use one (1) piece each of pn 503487-Y and 503488-Y. (Dash refers to color - refer to customer drawing for details).
** Strain relief dash number indicates color - see page 46 for details.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

SC Connectors (Continued)

SC Strain Reliefs — Jacketed Cable



3.0mm - GR-326 Style



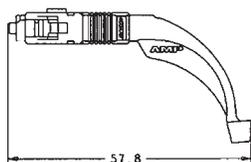
3.0mm Angled



900µm Short



900µm



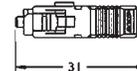
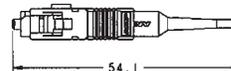
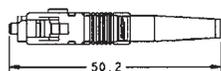
| Description | GR-326 Style | Part Number | | | | |
|-----------------|--------------|-------------|-----------|-------------|-----------|-----------|
| | | Color | | | | |
| | | Black | Yellow | Red | Beige | Blue |
| 3.0 mm | No | 1-5503971-0 | 5503971-7 | 1-5503971-1 | 5503971-1 | 5503971-2 |
| 2.4 mm | No | 1-5503971-2 | 5503971-8 | 1-5503971-3 | 5503971-3 | 5503971-4 |
| 3.0 mm | Yes | — | — | — | 1588491-5 | 1588491-2 |
| 1.6 mm - 2.4 mm | Yes | 1588153-3 | 1588153-4 | — | 1588153-5 | 1588153-2 |
| 2.0 mm | No | 2-5503971-3 | 5503971-9 | 2-5503971-7 | 5503971-5 | 5503971-6 |

SC Strain Reliefs — Angled

| Description | | Part Number | | | |
|-------------|-------------|-------------|-----------|-----------|-----------|
| | | Color | | | |
| | | Black | Red | Beige | Blue |
| 3.0 mm | Simplex | 1278705-3 | 1278705-4 | 1278705-2 | 1278705-1 |
| 2.0 mm | Simplex | 1374737-3 | 1374737-4 | 1374737-2 | 1374737-1 |
| 2.0 mm | 45° Simplex | 6457543-4 | 6457543-3 | 6457543-1 | 6457543-2 |

SC Strain Reliefs — 900 micron

| Description | Part Number | | | | |
|---------------------|-------------|-----------|-----------|-----------|-----------|
| | Color | | | | |
| | Black | Yellow | Red | Beige | Blue |
| Long (33mm) 900µm | 6457493-3 | 6457493-5 | 6457493-4 | 6457493-9 | 6457493-1 |
| Short (10 mm) 900µm | 6278309-1 | — | 6278309-3 | — | 6278309-2 |



SC Low Loss Loopback Connector

Part Number 5503141-1

Product Facts

- 62.5/125 Multimode
- Use for Equipment Testing
- 0.6 dB Insertion Loss
- 0.5" Ferrule Centerline

Part Number 5503141-2

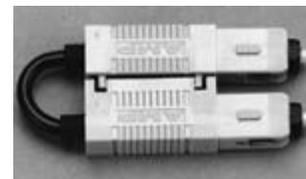
Product Facts

- 50/125 Multimode
- Use for Equipment Testing
- 0.8 dB Insertion Loss
- 0.5" Ferrule Centerline

Part Number 5504883-1

Product Facts

- Singlemode
- Use for Equipment Testing
- 1.5 dB Insertion Loss
- 0.5" Ferrule Centerline



Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.



“NEW” Tight Jacketed SC Connectors

Product Facts

- Multimode or singlemode
- Simplex or duplex
- Tested using MIL-PRF-85045/16 2.0mm cable

Application

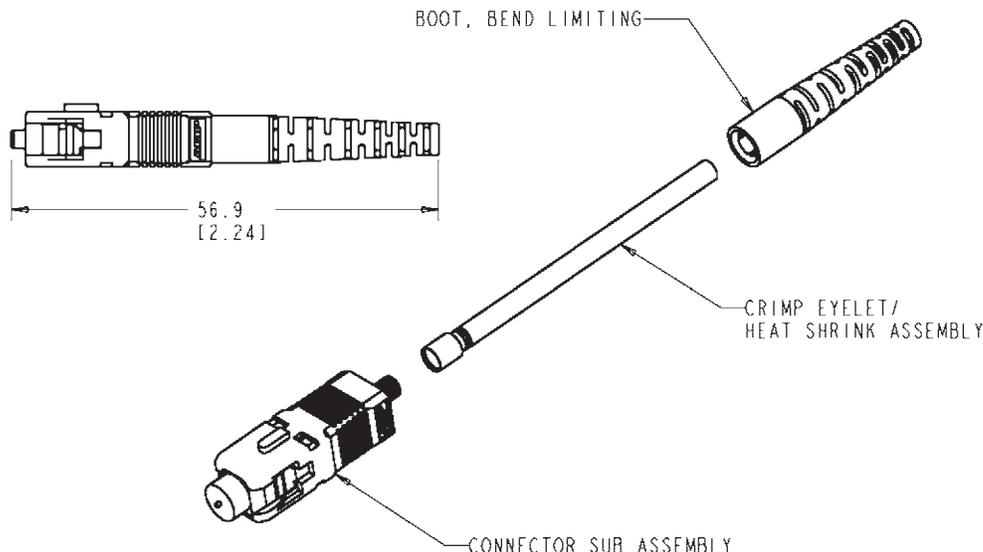
- In Flight Networks
- Shipboard Applications
- Aero Market

SC Connectors (Continued)



The tight jacketed SC Connectors are non pull-proof versions of the standard connectors that are designed for use with tight construction cable. Unlike

standard connectors, this design allows the jacket and buffer to move together, reducing the chances of micro-bends and fiber breakage.



Tight Jacketed SC Connector Kits

| Fiber Type | Kit Part Number | Description |
|---|-----------------|--------------------|
| Singlemode (blue body & straight boot) | 6828100-X | Simplex, 1.6–2.0mm |
| | 1828573-X | Duplex, 1.6–2.0mm |
| | 1918227-1 | Simplex, 2.4mm |
| Multimode (beige body & straight boot) | 6828099-X | Simplex, 1.6–2.0mm |
| | 1828574-X | Duplex, 1.6–2.0mm |
| | 1918154-X | Simplex, 2.4mm |

Note: X = -1 for individual package, -2 for bulk package. Instruction Sheet 408-10015

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

SC Connectors (Continued)

SC Adapters

Product Facts

- Suitable for any SC connector
- Available with metal or ceramic alignment sleeves
- Choice of housing materials and colors
- Duplex adapters accept two simplex connectors or one duplex connector
- Assortment of hybrid configurations available
- Mounting screws available Part Number 503663-1
- Slide-on cover available
- EMI gasketed parts available



SC Simplex Adapter - Plastic



Flangeless SC Simplex Adapter - Plastic



SC Simplex Adapter - Metal



Flangeless SC Simplex Adapter - Metal



SC Duplex Adapter - Plastic

SC Simplex Adapter - Plastic

| Alignment Sleeve Material/Application | Housing Color | Part Numbers |
|---------------------------------------|---------------|--------------|
| Metal/MM only | Beige | 5504614-1 |
| Metal | Black | 5502632-7 |
| Metal | Blue | 5502632-8 |
| Metal | Beige | 5502632-9 |
| Metal | Aqua | 2-5502632-3 |
| Ceramic | Black | 1-5502632-0 |
| Ceramic | Blue | 1-5502632-1 |
| Ceramic | Beige | 1-5502632-2 |
| "NEW" Ceramic | Aqua | 2-5502632-4 |
| Ceramic/APC | Green | 1828028-2 |

Flangeless SC Simplex Adapter - Plastic

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|---------------|--------------|
| Metal | Black | 5504632-1 |
| Ceramic | Black | 5504632-2 |
| Metal | Blue | 5504632-3 |
| Ceramic | Blue | 5504632-4 |

SC Simplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6278348-1 |
| Ceramic | Electroless Nickel | 6278348-3 |

Flangeless SC Simplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6278348-5 |
| Ceramic | Electroless Nickel | 6278348-7 |

SC Duplex Adapter - Plastic

| Alignment Sleeve Material/Application | Housing Color | Part Numbers |
|---------------------------------------|---------------|--------------|
| Metal/MM only | Black | 5504640-4 |
| Metal/MM only | Beige | 5504640-1 |
| Metal | Black | 5502776-7 |
| Metal | Blue | 5502776-8 |
| Metal | Beige | 5502776-9 |
| "NEW" Metal | Aqua | 2-5502776-5 |
| Ceramic | Black | 1-5502776-0 |
| Ceramic | Blue | 1-5502776-1 |
| Ceramic | Beige | 1-5502776-2 |
| "NEW" Ceramic | Aqua | 2-5502776-6 |
| Ceramic/APC | Green | 2-5502776-3 |

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.



SC Adapters (Continued)

SC Connectors (Continued)



SC Duplex Adapter

SC Duplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6278049-1 |
| Ceramic | Electroless Nickel | 6278049-3 |



SC Duplex Metal Adapter w/ EMI Shielding

Shielded SC Duplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6374223-1 |
| Ceramic | Electroless Nickel | 6374223-3 |

- Designed to help prevent EMI leak
- Ideal for high-speed applications

SC to ST Hybrid Adapters



SC to ST Simplex Adapter - Plastic

SC to ST Simplex Adapter - Plastic

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|---------------|--------------|
| Metal | Black | 5502780-1 |
| Metal | Blue | 5502780-2 |
| Metal | Beige | 5502780-3 |
| Ceramic | Black | 5502780-4 |
| Ceramic | Blue | 5502780-5 |



SC to ST Simplex Adapter - Metal

SC to ST Simplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Ceramic | Electroless Nickel | 6278350-3 |
| Metal | Electroless Nickel | 6278350-1 |

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

SC to ST Hybrid Adapters
(Continued)



Flangeless SC to ST Simplex Adapter - Metal

Flangeless SC to ST Simplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Ceramic | Electroless Nickel | 6278350-7 |
| Metal | Electroless Nickel | 6278350-5 |



SC to ST Duplex Adapter - Plastic

SC to ST Duplex Adapter - Plastic

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|---------------|--------------|
| Metal (MM Only) | Beige | 5504663-4 |
| Metal | Black | 5503137-1 |
| Metal | Blue | 5503137-2 |
| Metal | Beige | 5503137-3 |
| Ceramic | Black | 5503137-4 |
| Ceramic | Blue | 5503137-5 |
| Ceramic | Beige | 5503137-6 |

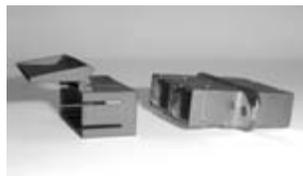


SC to ST Duplex Adapter - Metal

SC to ST Duplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6278051-1 |
| Ceramic | Electroless Nickel | 6278051-3 |

Slide-on Retractable Cover for SC Simplex or Duplex Applications



The Tyco Electronics slide-on retractable cover is used for simplex or duplex SC applications. These retractable doors slip onto the end of existing Tyco Electronics adapters and can be mounted after the adapter has already been installed.

- 1693539-1** — Blue Simplex SC
- 1693539-3** — Green Simplex SC
- 1693540-1** — for use on all Tyco Electronics SC Duplex Adapters

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Product Facts

- Epoxy type connector
- Pre-radiused ferrule finish
- Available in bulk packages

Singlemode Ceramic

Performance Characteristics

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

ST Connectors — Epoxy Type

Ceramic



Materials

- Ferrule Material** — Ceramic
- Body Material** — Nickel Plated Brass
- Coupling Nut Material** — Plated Die Cast
- Nominal Fiber Size** — 126

Singlemode ST Connector Kits

| Ferrule Type | Body Material | Jacket Size* | Strain Relief Type & Color | Indiv. Pack w/ Strain Relief | Bulk Pack w/ Strain Relief | Crimp Tool | Instruction Sheet |
|--------------|---------------|-----------------------|----------------------------|------------------------------|----------------------------|------------|-------------------|
| Ceramic | Metal | 3.0 mm (900µm, 2.4mm) | Bend Limiting/ Yellow | 5502579-2 | — | 58433-4 | 408-9645 |
| Ceramic | Metal | 3.0 mm (900µm, 2.4mm) | Short/Yellow | 5502580-2 | 5502580-4 | 58433-4 | 408-9645 |
| Ceramic | Metal | 900µm | Bare Buffer/ Yellow | 5503613-2 | — | 58433-4 | 408-9645 |

* Jack sizes in parentheses can be accommodated with no additional purchases by using build-up tubing included in the kit part numbers listed.

Multimode Ceramic

Performance Characteristics

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

Ceramic



Multimode ST Connector Kits - Ceramic Ferrule

| Ferrule Type | Body Material | Coupling Nut Material | Jacket Size* | Strain Relief Type & Color | Indiv. Pack w/ Strain Relief | Bulk Pack No Strain Relief | Bulk Pack w/ Strain Relief | Crimp Tool | Instruction Sheet |
|---------------|---------------|-----------------------|------------------------------|---------------------------------------|------------------------------|----------------------------|----------------------------|------------|-------------------|
| Ceramic | Polymer | Polymer | 3.0 mm | Short/Black | — | 503569-1 | 503569-2 | 58433-4 | 408-9971 |
| Ceramic | Polymer | Polymer | 3.0 mm (900µm, 2.4mm) | Short/Black | 503571-1 | — | — | 58433-4 | 408-9971 |
| Ceramic | Polymer | Polymer | 3.0 mm (900µm, 2.0mm, 2.4mm) | Bare Buffer/Black | 5503571-3 | — | — | 58433-4 | 408-9971 |
| Ceramic | Polymer | Metal | 3.0 mm | Short/Black | 503677-2 | 503676-1 | 503677-1 | 58433-4 | 408-9971 |
| Ceramic | Metal | Metal | 3.0 mm (900µm, 2.4mm) | Right Angle/Black | 5502674-1 | — | — | 58433-4 | 408-9645 |
| Ceramic | Metal | Metal | 3.0 mm | Short/Black | — | 5492458-3 | 5492458-2 | 58433-4 | 408-9645 |
| Ceramic | Metal | Metal | 3.0 mm, 900µm | Bare Buffer/Black Bend Limiting/Black | 5492458-1 | — | — | 58433-4 | 408-9645 |
| Ceramic | Metal | Metal | 3.0 mm (900µm, 2.4mm) | Bare Buffer/Black | 5501380-1 | — | — | 58433-4 | 408-9645 |
| Ceramic | Metal | Metal | 3.0 mm (900µm, 2.4mm) | Short/Black | 1-5501380-6 | — | — | 58433-4 | 408-9645 |
| Ceramic | Metal | Polymer | 3.0 mm | None | — | 6374332-2 | — | 58433-4 | 408-9645 |
| Ceramic 140µm | Metal | Polymer | 3.0 mm | Short/Black | — | — | 6374332-1 | 58433-4 | 408-9645 |
| Ceramic 140µm | Metal | Metal | 3.0 mm (900µm, 2.4mm) | Bend Limiting/Black | 5501380-6 | — | — | 58433-4 | 408-9645 |

* Jacket sizes in parentheses can be accommodated with no additional purchases by using build-up tubing included in the kit part numbers listed.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

ST Connectors — Epoxy Type (Continued)

Polymer Composite

Multimode Polymer Composite

Performance Characteristics

Insertion Loss — 0.3dB Typical

Durability — 500 Cycles

Materials

Ferrule — Composite Polymer

Body — Polymer

Coupling Nut — Polymer



Multimode ST Connector Kits - Polymer Ferrule

| Ferrule Type | Body Material | Coupling Nut Material | Jacket Size | Strain Relief Type & Color | Indiv. Pack w/ Strain Relief | Bulk Pack w/ Strain Relief | Crimp Tool | Instruction Sheet |
|--------------|---------------|-----------------------|---------------|----------------------------------|------------------------------|----------------------------|------------|-------------------|
| Polymer | Polymer | Polymer | 3.0 mm, 900µm | Short/Black Bare Buffer/Black | 5503415-1 | — | 58433-4 | 408-9971 |
| Polymer | Polymer | Polymer | 3.0 mm | Short/Beige | — | 503424-3 | 58433-4 | 408-9971 |

Stainless Steel

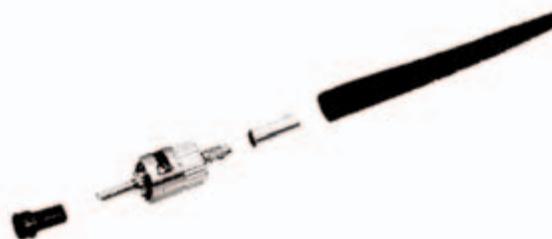
Multimode Stainless Steel

Performance Characteristics

Insertion Loss — 0.3dB Typical

Operating Temp. Range —
-30°C to +70°C

Durability — 500 cycles



Multimode ST Connector Kits - Stainless Steel Ferrule

| Ferrule Type | Ferrule Designation | Body Material | Coupling Nut Material | Jacket Size | Strain Relief Type & Color | Indiv Pack w/ Strain Relief | Bulk Pack No Strain Relief | Crimp Tool | Instruction Sheet |
|-----------------|---------------------|---------------|-----------------------|-------------|----------------------------|-----------------------------|----------------------------|------------|-------------------|
| Stainless Steel | 125 | Metal | Metal | 3.0 mm | Bend Limiting/ Black | 5504008-3 | 5-5504008-4 | 58551-1 | 408-4151 |
| Stainless Steel | 140 | Metal | Metal | 3.0 mm | Bend Limiting/ Black | 5504008-7 | — | 58551-1 | 408-4151 |
| Stainless Steel | 231 | Metal | Metal | 3.0 mm | Bend Limiting/ Black | 1-5504008-4 | — | 58551-1 | 408-4151 |
| Stainless Steel | 240 | Metal | Metal | 3.0 mm | Bend Limiting/ Black | 1-5504008-3 | — | 58551-1 | 408-4151 |
| Stainless Steel | 125 | Metal | Metal | 4.3 mm | Long/ Black | 5504008-4 | — | 58551-1 | 408-4151 |
| Stainless Steel | 280 | Metal | Metal | 3.0 mm | Bend Limiting/ Black | 4-5504008-6 | — | 58551-1 | 408-4151 |

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-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 | 1.6-2.0mm | 501971-3 | 5502275-1 | 502128-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 501457-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-2 | 503219-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 5502667-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 502128-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 501457-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 5502667-X |
| | | 3.0mm | 501971-3 | — | 502128-X |
| | | 3.0mm | 501971-3 | — | 501457-X |
| | | 3.0mm | 501971-3 | — | 5502667-X |
| Multimode - Ceramic Ferrule Metal Body, Metal Nut | 5492458-5 | 900um | 501971-3 | 502179-7 | 5503628-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 502128-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 501457-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-2 | 503219-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 5502667-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 502128-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 501457-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 5502667-X |
| | | 3.0mm | 501971-3 | — | 502128-X |
| | | 3.0mm | 501971-3 | — | 501457-X |
| Multimode - Ceramic Ferrule Metal Body, Polymer Nut | 5501458-8 | 3.0mm | 501971-3 | — | 5502667-X |
| | | 900um | 501971-3 | 502179-7 | 5503628-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 502128-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 501457-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-2 | 503219-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 5502667-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 502128-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 501457-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 5502667-X |
| | | 3.0mm | 501971-3 | — | 502128-X |
| Multimode - Ceramic Ferrule Polymer Body, Metal Nut | 503676-5 | 3.0mm | 501971-3 | — | 501457-X |
| | | 3.0mm | 501971-3 | — | 5502667-X |
| | | 900um | 501971-3 | 502179-7 | 5503628-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 502128-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 501457-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-2 | 503219-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 5502667-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 502128-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 501457-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 5502667-X |
| Multimode - Ceramic Ferrule Polymer Body, Polymer Nut | 503676-4 | 3.0mm | 501971-3 | — | 502128-X |
| | | 3.0mm | 501971-3 | — | 501457-X |
| | | 3.0mm | 501971-3 | — | 5502667-X |
| | | 900um | 501971-3 | 502179-7 | 5503628-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 502128-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 501457-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-2 | 503219-X |
| | | 1.6-2.0mm | 501971-3 | 5502275-1 | 5502667-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 502128-X |
| | | 2.4mm | 501971-3 | 5501275-1 | 501457-X |

* Strain relief dash number indicates color - see chart on page 54 for details.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

ST Connectors — Epoxy Type (Continued)



Bend Limiting



Short



Right Angle



Bare Buffer

Strain Relief Bulk packages (100 pcs./package)

| Color | Bend Limiting | Short (3.0mm) | Right Angle | Bare Buffer | Short (2.0mm) |
|-------|---------------|---------------|-------------|-------------|---------------|
| Black | 502128-1 | 501457-1 | 5502667-1 | 5503628-2 | 503219-1 |
| Red | 502128-3 | 501457-3 | 5502667-4 | 2-5503628-4 | — |
| Blue | 502128-7 | 501457-5 | 5502667-2 | 5503628-9 | 503219-5 |
| Beige | 502128-4 | 502457-4 | 5502667-3 | 2-5503628-9 | 503219-4 |

Product Facts

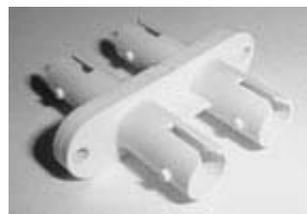
- Free-hanging or panel mount design

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: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Product Facts

- One-piece connector body:
 - Fastest assembly
- Compliant with:
 - JIS C-5970
- Pre-radiused ferrule

Singlemode FC Connector Kits - Polymer Crimp Body

Performance Characteristics

Insertion Loss — <0.2 dB Typical

Return Loss — <-59 dB Typical

Durability — 200 Cycles

GR-326 Style FC Connector Kits - Metal Crimp Body Singlemode

Performance Characteristics

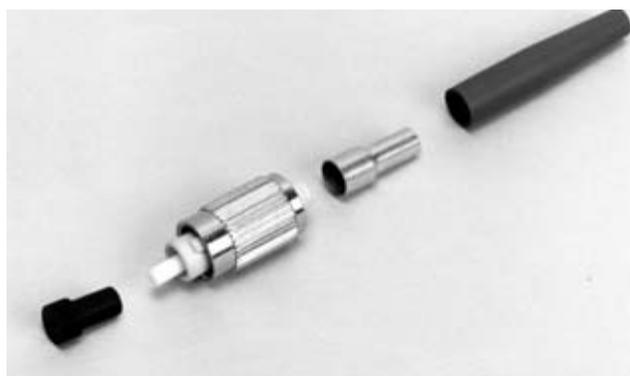
Insertion Loss — <0.2 dB Typical

Return Loss — <-59 dB Typical

Tested to GR-326

Tuning — 6 position

FC Connectors



Singlemode FC Connector Kits - Polymer Crimp Body

| Ferrule Type | Crimp Body Material | Jacket Size | Indiv. Pack w/Strain Relief | Bulk Pack w/Strain Relief | Crimp Tool | Instruction Sheet |
|--------------|---------------------|-------------|-----------------------------|---------------------------|------------|-------------------|
| Ceramic | Polymer | 3.0 mm | 5504649-1 | 5504649-8 | 503911-1 | 408-8674 |
| Ceramic | Polymer | 900µm | 5492052-1 | 5492052-4 | n/a | 408-8674 |

GR-326 Style Singlemode FC Connector Kits - Metal Crimp Body

| Ferrule Type | Crimp Body Material | Jacket Size | Indiv. Pack w/Strain Relief | Bulk Pack w/Strain Relief | Crimp Tool | Instruction Sheet |
|--------------|---------------------|--------------|-----------------------------|---------------------------|-----------------------------|-------------------|
| Ceramic | Metal | 3.0 mm | 6457216-4 | 6457216-2 | (1) 492131-1 (1) 58532-1 | 408-8674 |
| Ceramic | Metal | 2.4 mm | 6754264-5 | 6754264-6 | 1588176-1 | 408-8674 |
| Ceramic | Metal | 1.6 - 2.0 mm | 6754264-4 | 6754264-7 | 1588176-1 | 408-8674 |
| Ceramic | Metal | 900µm | 6754264-2 | — | 1588176-1 | 408-8674 |

FC Strain Reliefs — Jacketed Cable

| Description | GR-326 Style | Part Number | | | | |
|-----------------|--------------|-------------|-----------|-------------|-----------|-----------|
| | | Color | | | | |
| | | Black | Yellow | Red | Beige | Blue |
| 3.0 mm | No | 1-5503971-0 | 5503971-7 | 1-5503971-1 | 5503971-1 | 5503971-2 |
| 2.4 mm | No | 1-5503971-2 | 5503971-8 | 1-5503971-3 | 5503971-3 | 5503971-4 |
| 3.0 mm | Yes | — | — | — | 1588491-5 | 1588491-2 |
| 1.6 mm - 2.4 mm | Yes | 1588153-3 | 1588153-4 | — | 1588153-5 | 1588153-2 |
| 2.0 mm | No | 2-5503971-3 | 5503971-9 | 2-5503971-7 | 5503971-5 | 5503971-6 |

FC Strain Reliefs — Angled

| Description | | Part Number | | | |
|-------------|-------------|-------------|-----------|-----------|-----------|
| | | Color | | | |
| | | Black | Red | Beige | Blue |
| 3.0 mm | Simplex | 1278705-3 | 1278705-4 | 1278705-2 | 1278705-1 |
| 2.0 mm | Simplex | 1374737-3 | 1374737-4 | 1374737-2 | 1374737-1 |
| 2.0 mm | 45° Simplex | 6457543-4 | 6457543-3 | 6457543-1 | 6457543-2 |

FC Strain Reliefs — 900 micron

| Description | Part Number | | | | |
|----------------------|-------------|-----------|-----------|-----------|-----------|
| | Color | | | | |
| | Black | Yellow | Red | Beige | Blue |
| Long (33mm) 900µm | 6457493-3 | 6457493-5 | 6457493-4 | 6457493-9 | 6457493-1 |
| Short (10 mm) 900 µm | 6278309-1 | — | 6278309-3 | — | 6278309-2 |

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.



3.0mm - GR-326 Style



3.0mm Angled



900µm Short



900µm

FC Connectors (Continued)

FC Connector Component Selection Chart (bulk packaged)

| Fiber Type | Simplex Connector Sub-Assembly | Cable Size | Crimp Eyelet w/ Heat Shrink | Crimp Eyelet | Strain Relief Part Number* |
|-------------------------------|--------------------------------|------------|-----------------------------|---------------------------------------|---------------------------------------|
| Singlemode - GR-326 Style | 6754264-8 | 1.6-2.0 mm | 6374150-1 | — | 1588153-X |
| | | 2.4 mm | 6588189-1 | — | 1588153-X |
| | 6457216-5 | 3.0 mm | — | 504973-3 | 1588491-X |
| Singlemode Polymer Crimp Body | 5504649-9 | 2.4 mm | — | 503970-6 | 5503971-X |
| | | 3.0 mm | — | 503970-3 | 5503971-X |
| | 900 μm | — | — | 6457493-X (long) 6278309-X (short) | |
| Multimode - Ceramic Ferrule | 6374778-2 | 1.6-2.0 mm | 6374150-1 | — | 1588153-X |
| | | 2.4 mm | 6588189-1 | — | 1588153-X |
| | 5504922-3 | 3.0 mm | — | 503970-3 | 5503971-2 |
| | | 900 μm | — | — | 6457493-9 (long) 6278309-1 (short) |

* Strain relief dash number indicates color - see page 55 for details.

FC Adapters



FC Square Flange Adapter

FC Simplex Square Flange Adapter - Metal

| Alignment Sleeve Material | Panel Cut-out | Keyway Slot (Nom.) | Part Numbers |
|---------------------------|---------------|--------------------|--------------|
| Metal | Square Flange | Std. 2.33 mm | 5501506-2 |
| Ceramic | Square Flange | Std. 2.33 mm | 5501506-1 |



FC 8mm/9mm Dia. Round

FC Simplex 8mm/9mm Dia. Round (D-Hole) Adapter - Metal

| Alignment Sleeve Material | Panel Cut-out | Keyway Slot (Nom.) | Part Numbers |
|---------------------------|---------------|--------------------|--------------|
| Metal (Copper) | D-Hole | Std. 2.33 mm | 5504407-1 |
| Ceramic | D-Hole | Std. 2.33 mm | 5504407-3 |
| Ceramic/APC | D-Hole | 2.05 mm Type R | 5504407-8 |
| Ceramic/APC | D-Hole | Prec. 2.02 mm | 5504407-7 |



FC 8mm Dia. Round (Double D)

FC Simplex 8mm Dia. Round (Double D-Hole) Adapter - Metal

| Alignment Sleeve Material | Panel Cut-out | Keyway Slot (Nom.) | Part Numbers |
|---------------------------|---------------|--------------------|--------------|
| Metal | Double D-Hole | Std. 2.33mm | 5504013-1 |

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.



Hybrid Adapters - SC/FC/ST



FC to ST Simplex Adapter - Metal

Hybrid FC to ST Simplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 5503640-1 |
| Ceramic | Electroless Nickel | 5503640-2 |



SC to FC Simplex Adapter - Metal

SC to FC Simplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6278349-1 |
| Ceramic | Electroless Nickel | 6278349-3 |



Flangeless SC to FC Simplex Adapter - Metal

Flangeless Simplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6278349-5 |
| Ceramic | Electroless Nickel | 6278349-7 |



SC to FC Duplex Adapter - Metal

SC to FC Duplex Adapter - Metal

| Alignment Sleeve Material | Housing Color | Part Numbers |
|---------------------------|--------------------|--------------|
| Metal | Electroless Nickel | 6278050-1 |
| Ceramic | Electroless Nickel | 6278050-3 |

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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