

SC Connectors

Product Facts

- One-piece connector body:
 - Fastest assembly
 - Field installable
 - Anaerobic adhesive compatible
- Compliant with
 - JIS C-5973
 - Fibre Channel
 - TIA FOCIS-3
- Pre-radiused ceramic ferrules
- For 125 µm cladding diameter
- Instruction Sheet 408-8674
<http://www.tycoelectronics.com/documents>
- Color coded to comply with 568C
 - Aqua for 50/125 laser optimized
 - Black for standard 50/125
 - Beige for 62.5/125
 - Blue for singlemode

Performance Characteristics for Singlemode SC Connector Kits — Polymer Crimp Body

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

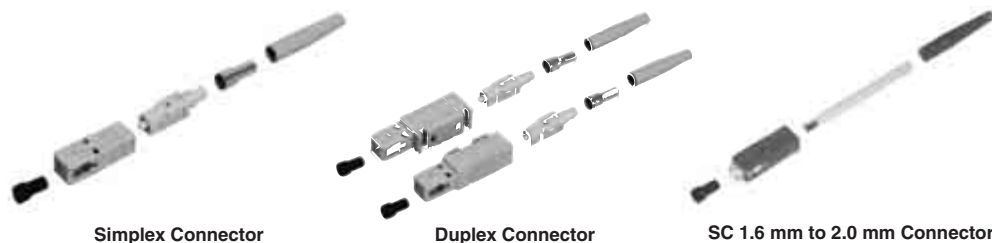
Performance Characteristics for GR-326 Style Product

- 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

Performance Characteristics for Multimode SC Connector Kits

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

Note: All part numbers are RoHS compliant.



Singlemode SC Connector Kits — Polymer Crimp Body

Description	Housing Color	Boot Color	Used With	Part Numbers		
				Individual Pack	Bulk Pack	Crimp Tool
Simplex	Blue	Blue	900 µm Buffered, 3.0 mm Jacketed	5504646-7	—	503911-1
			3.0 mm Jacketed	5504646-1	5504646-2	503911-1
			2.4 mm Jacketed	5504933-2	5504933-4	492026-1
			2.0 mm Jacketed	5503934-2	5503934-3	492026-1
			900 µm Buffer	5492123-1	5492123-2	N/A
Duplex	Blue	Blue	3.0 mm Jacketed	5504655-1	5504655-2	503911-1
			2.0 mm Jacketed	5504936-2	—	492026-1

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

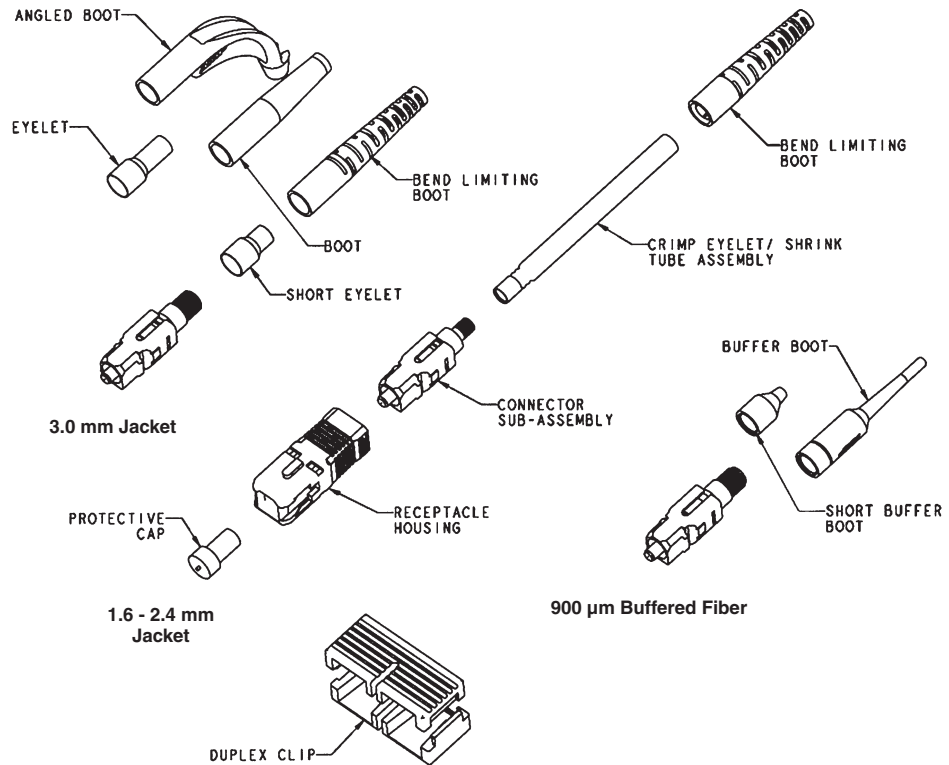
Description	Housing Color	Boot Color	Used With	Part Numbers		
				Individual Pack	Bulk Pack	Crimp Tool
Simplex	Blue	Blue	3.0 mm Jacketed	4-1918861-5	—	(1) 492131-1 (1) 58532-1
			2.4 mm Jacketed	6588714-5	6588714-6	1588176-1
			2.0 mm Jacketed	6588714-1	6588714-4	1588176-1
Duplex	Blue	Blue	2.4 mm Jacketed	6693776-5	6693776-6	1588176-1
			2.0 mm Jacketed	6693776-1	6693776-2	1588176-1

Multimode SC Connector Kits

Description	Housing Color	Boot Color	Used With	Part Numbers		
				Individual Pack	Bulk Pack	Crimp Tool
Simplex	Beige	Aqua	900 µm Buffered, 3.0 mm Jacketed	1-5503948-1	—	503911-1
			3.0 mm Jacketed	1-5503948-0	—	503911-1
			2.0 mm Jacketed	5504931-5	—	492026-1
			900 µm Buffer	5504932-5	—	N/A
	Beige	Black	900 µm Buffered, 3.0 mm Jacketed	1-5503948-2	—	503911-1
			3.0 mm Jacketed	1-5503948-3	5503948-8	503911-1
			2.0 mm Jacketed	5504931-6	5504931-3	492026-1
			900 µm Buffer	5504932-1	5504932-2	N/A
			900 µm Buffered, 3.0 mm Jacketed	5503948-5	—	503911-1
			3.0 mm Jacketed	5503948-1	5503948-2	503911-1
			2.4 mm Jacketed	5504930-1	5504930-2	492026-1
			2.0 mm Jacketed	5504931-1	—	492026-1
Duplex	Beige	Aqua	900 µm Buffer	5504932-6	—	N/A
			3.0 mm Jacketed	5504657-8	—	503911-1
			2.0 mm Jacketed	5504928-3	—	492026-1
			3.0 mm Jacketed	5504657-9	—	503911-1
	Beige	Black	2.0 mm Jacketed	5504928-4	—	492026-1
			3.0 mm Jacketed	5504657-1	5504657-2	503911-1
			2.4 mm Jacketed	5504927-1	5504927-2	492026-1
			2.0 mm Jacketed	5504928-1	—	492026-1
	Beige	Beige	3.0 mm Jacketed	5504927-1	5504927-2	492026-1
			2.0 mm Jacketed	5504928-1	—	492026-1

SC Connectors (Continued)

SC Connector Components



SC Duplex Clip (Black) Part Number 6348522-1

Use 2 pieces to duplex
simplex housings



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	6457215-5	(2) 6348522-1	3.0 mm	—	504973-3	1588491-X
			2.4 mm	6588189-1	—	1588153-X
	6588714-3	(2) 6348522-1	1.6-2.0 mm	6374150-2	—	1588153-X
			900 μ m	—	—	1828184-X
Singlemode - Polymer Crimp Body	5492123-7	(2) 6348522-1	3.0 mm	—	503970-3	5503971-X
			2.4 mm	—	503970-6	5503971-X
			2.0 mm	—	503970-9	5503971-X
			900 μ m	—	—	6457493-X (long) 6278309-X (short)
			2.4 mm	6588189-1	—	1588153-X
Multimode - Metal Crimp Body (Ceramic Ferrule)	6588715-5	(2) 6348522-1	1.6-2.0 mm	6374150-2	—	1588153-X
			900 μ m	—	—	1828184-X
			3.0 mm	—	503970-3	5503971-X
Multimode - Polymer Crimp Body (Ceramic Ferrule)	5503948-7	(2) 6348522-1	2.4 mm	—	503970-6	5503971-X
			2.0 mm	—	503970-9	5503971-X
			900 μ m	—	—	6457493-X (long) 6278309-X (short)
			2.0 mm	—	—	—

* For Fibre Channel compliant assemblies, use one (1) piece each of Part Number 503487-Y and 503488-Y. (Dash refers to color — refer to customer drawing for details).

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

Note: All part numbers are RoHS compliant.

SC Connectors (Continued)

SC Strain Reliefs — Jacketed Cable

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

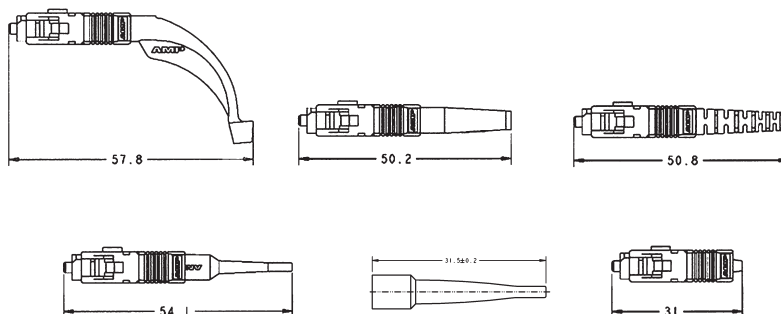


SC Strain Reliefs — Angled

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

SC Strain Reliefs — 900 micron

Description		Part Number		
		Color		
		Black	Beige	Blue
Long (33 mm) 900 µm		6457493-3	6457493-9	6457493-1
Short (10 mm) 900 µm		6278309-1	—	6278309-2
GR-326 Style 900 µm		1828184-2	1828184-4	1828184-1



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

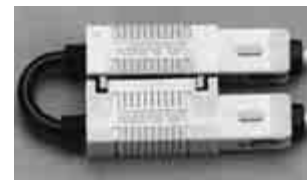
Product Facts

- 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: All part numbers are RoHS compliant.

SC Connectors (Continued)

Tight Jacketed SC Connectors

Product Facts

- Multimode or singlemode
- Simplex or duplex
- Tested using MIL-PRF-85045/16 2.0 mm cable
- SC Commercial Item Description (CID) interim approval by Naval Surface Warfare Center, Dahlgren Division

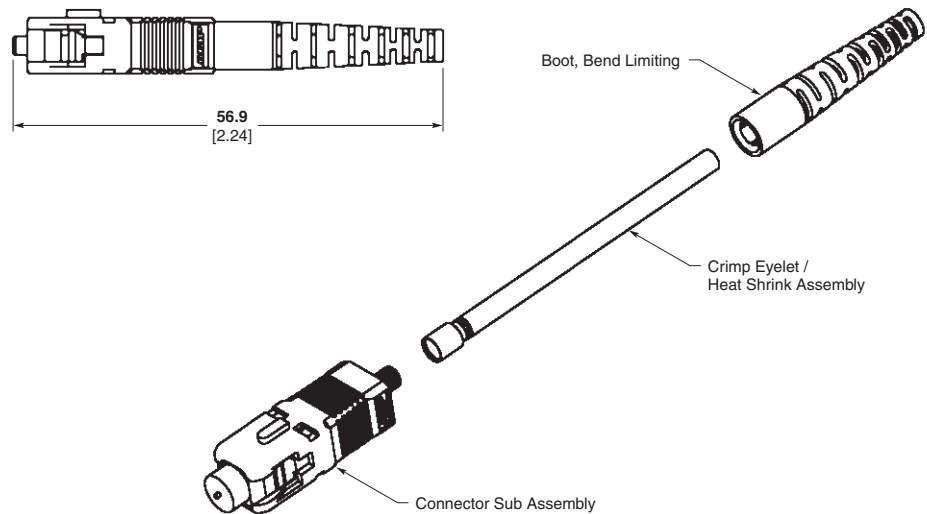
Application

- In Flight Networks
- Shipboard Applications
- Aero Market



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, 1.6–2.0 mm
	1828573-X	Duplex, 1.6–2.0 mm
	1918227-X	Simplex, 2.4 mm
Multimode (beige body & straight boot)	6828099-X	Simplex, 1.6–2.0 mm
	1828574-X	Duplex, 1.6–2.0 mm
	1918154-X	Simplex, 2.4 mm

Note: X = -1 for individual package, -2 for bulk package.
Instruction Sheet 408-10015. See <http://www.tycoelectronics.com/documents>.

Note: All part numbers are 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
- Color coded to comply with 568C
 - Aqua for 50/125 laser optimized
 - Black for standard 50/125
 - Beige for 62.5/125
 - Blue for singlemode
- 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

Note: All part numbers are RoHS compliant.

SC Simplex Adapter - Plastic

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

Flangeless SC Simplex Adapter - Plastic

Alignment Sleeve Material	Housing Color	Part Numbers
Metal	Black	5504632-1
	Blue	5504632-3
Ceramic	Black	5504632-2
	Aqua	5504632-6
	Blue	5504632-4
	Green	5504632-5

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

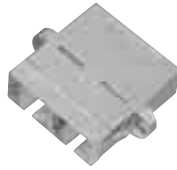
Alignment Sleeve Material	Housing Color	Part Numbers
Metal	Electroless Nickel	6278348-5
Ceramic	Electroless Nickel	6278348-7

SC Duplex Adapter - Plastic

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

SC Connectors (Continued)

SC Adapters (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

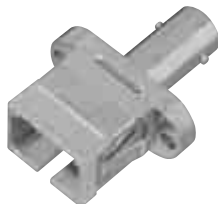
SC to ST Hybrid Adapters



SC to ST Simplex Adapter -
Plastic

SC to ST Simplex Adapter - Plastic

Alignment Sleeve Material	Housing Color	Part Numbers
Metal	Beige	5502780-3
	Black	5502780-1
	Aqua	2-5502780-0
	Blue	5502780-2
Ceramic	Beige	5502780-6
	Black	5502780-4
	Aqua	2-5502780-1
	Blue	5502780-5



SC to ST Simplex Adapter - Metal

SC to ST Simplex Adapter - Metal

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

Note: All part numbers are RoHS compliant.

SC to ST Hybrid Adapters

(Continued)



Flangeless SC to ST Simplex Adapter - Metal

Flangeless SC to ST Simplex Adapter - Metal

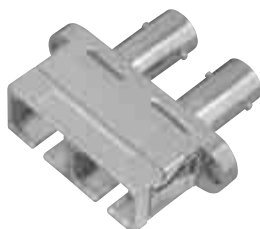
Alignment Sleeve Material	Housing Color	Part Numbers
Metal	Electroless Nickel	6278350-5
Ceramic	Electroless Nickel	6278350-7



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
	Black	5504663-6
	Aqua	5504663-5
Metal	Beige	5503137-3
	Black	5503137-1
	Aqua	2-5503137-1
	Blue	5503137-2
Ceramic	Beige	5503137-6
	Black	5503137-4
	Aqua	1-5503137-9
	Blue	5503137-5



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
- 1693539-2** — Beige Simplex SC
- 1693539-3** — Green Simplex SC
- 1693540-1** — Blue Duplex SC
- 1693540-3** — Green Duplex SC

Note: All part numbers are RoHS compliant.