One Piece FC Connectors & Adapters

**SPECIFICATIONS**

- **Connector Loss:**
  - 9/125 µm fibre, 0.19 dB typical
  - 62.5/125 µm fibre, 0.21 dB typical
  - 50/125 µm fibre, 0.14 dB typical

- **Return Loss:**
  - PC: Polish dependant
  - APC: -65dB max, -68dB typical

- **Durability:** ≤ 0.11dB after 500 mating cycles

- **Operating Temperature:**
  - -40°C to +85°C

- **Intermateability:** Mechanically and optically intermateable with NTT FC type products and conform to JIS C 5970.

<table>
<thead>
<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
<th>FIBRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>944-601-5006</td>
<td>FC/PC, Singlemode 126µm, Zirconia PC ferrule</td>
<td>SM</td>
</tr>
<tr>
<td>944-601-5306</td>
<td>FC/PC, Singlemode 126µm, Zirconia PC ferrule, High Performance Boot</td>
<td>SM</td>
</tr>
<tr>
<td>944-601-5010</td>
<td>FC/PC, Multimode 128µm, Zirconia PC ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>944-611-5106</td>
<td>FC Connector Singlemode 126µm Zirconia PC ferrule Tunable High Performance Boot</td>
<td>SM</td>
</tr>
<tr>
<td>944-120-6000</td>
<td>FC Adapter, Flange Mount, Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>944-125-6003</td>
<td>FC Adapter, D-Hole, Feed Through, Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-944-5001</td>
<td>SC/FC Converting Adapter, Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>944-120-1014</td>
<td>FC Adapter, Captivated Dust Cap</td>
<td>SM/MM</td>
</tr>
<tr>
<td>944-603-5006</td>
<td>FC/APC, Singlemode 126µm, Zirconia stepped ferrule</td>
<td>SM</td>
</tr>
<tr>
<td>944-603-5606</td>
<td>FC/APC, Singlemode 126µm, Zirconia pre angled stepped ferrule</td>
<td>SM</td>
</tr>
<tr>
<td>944-125-6004</td>
<td>FC/APC Adapter D-Hole Feed Through Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
</tbody>
</table>

**NOTES**

- All connectors available in with 125µm ferrules
- All connectors are supplied with 900µm and 3.0mm boots
- All adapters available with phosphor bronze alignment sleeves.
- Technical drawings available on request.
Small Form Factor (SFF) Connectors & Adapters

**LC Connectors & Adapters**

- Audible latch to indicate proper mating
- Pull proof
- Well suited to high density application and easily duplexed
- Fits an RJ-45 footprint

**SPECIFICATIONS**

- **Insertion Loss:** 9/125 µm fibre, 0.3 dB maximum
  62.5/125 µm fibre, 0.3 dB maximum
- **Return Loss:** 9/125 µm, 50 dB typical
- **Durability:** <0.2 dB change typical (500 matings)
- **Operating Temperature:** -40°C to +85°C

**FEATURES**

- Half the size of duplex SC and ST style connectors
- Installable in conventional RJ-45 faceplates and has RJ-45 type latching mechanism
- Singlemode and multimode versions for existing and future network applications
- Single ferrule reduces the time and complication of assembly since both fibres can be installed and polished at the same time.
- Allows for increased port density
- Rugged design, meets or exceeds industry standards, with no exposed fibres

**MT-RJ Connectors & Adapters**

- **SPECIFICATIONS**
  - **Insertion Loss:** 9/125 µm fibre, 0.3 dB typical
    62.5/125 µm fibre, 0.3 dB typical
  - **Return Loss:** 9/125 µm, 40 dB typical
  - **Operating Temperature:** -40°C to +75°C
  - **Performance:** Performance compliant with ISO/IEC 11801, TIA/EIA 568A and draft Detail Specification for Optical Fibre Connectors.

**FEATURES**

- Audible latch to indicate proper mating
- Pull proof
- Well suited to high density application and easily duplexed
- Fits an RJ-45 footprint
Small Form Factor (SFF) Connectors & Adapters

MU Connectors & Adapters

SPECIFICATIONS

Insertion Loss: 9/125 µm fibre, 0.3 dB maximum
62.5/125 µm fibre, 0.3 dB maximum

Return Loss: Default Polish 9/125 µm, ≤ 50 dB max
Ultra Polish 9/125 µm, ≤ 55 dB max

Durability: <0.1 dB change typical (500 matings)

Operating Temperature: -40°C to +75°C

APPLICATIONS
CATV
Active device termination
Telecommunication networks

FEATURES

• Free floating ferrule is independent of the backbone, so that a pull on the cable will not cause the ferrule to break contact with a second ferrule in a connection
• Push-Pull mating
• The MU connector features a precision screw machined body and UL rated plastic housing and boot for consistent performance and durability.
• Available in singlemode or multimode.
• Fully mateable with NTT-MU type products
• Tunable zirconia ceramic ferrule
• NTT and JIS compliant

SUPPORTING PRODUCT

• Adaptors
  Simplex Patch Panel and Board mount
  Duplex Patch Panel and Board mount
  8-port Patch Panel and Board mount
• Hybrid Adaptors
  MU-LC Adapter
  MU-SC Adapter
• MU Backplane Connectors (MU-B)
• MU Backplane connector housings
  MU duplex printed circuit board housing
  MU 8-port printed circuit board housing
  MU duplex backpanel housing (2.4 or 3.2 mm thickness)
  MU 8-port backpanel housing (2.4 or 3.2 mm thickness)
• MU Tools
  A variety of tools are available to assist in the removal of MU connectors
  MU duplex printed circuit board housing cleaning tool
  MU 8-port printed circuit board housing cleaning tool
One Piece SC Connectors & Adapters

SPECIFICATIONS

Connector Loss:
- 9/125 \( \mu \)m fibre, 0.19 dB typical
- 62.5/125 \( \mu \)m fibre, 0.15 dB typical

Return Loss:
- PC \( \leq -55 \) dB
- APC \( \leq -65 \) dB

Durability:
\( \leq 0.20 \) dB change after 500 mating cycles

Operating Temperature:
-40°C to +85°C

Intermateability:
Mechanically and optically intermateable with NTT SC type products and conform to JIS C 5973.

<table>
<thead>
<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
<th>FIBRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>954-101-5006</td>
<td>SC/PC, Singlemode 126( \mu )m, Zirconia PC ferrule</td>
<td>SM</td>
</tr>
<tr>
<td>954-101-5306</td>
<td>SC/PC, Singlemode 126( \mu )m, Zirconia PC ferrule, High Performance Boot</td>
<td>SM</td>
</tr>
<tr>
<td>954-101-5010</td>
<td>SC/PC, Multimode 128( \mu )m, Zirconia PC ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>954-101-5011</td>
<td>SC/PC, Multimode 144( \mu )m, Zirconia PC ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>954-122-5002</td>
<td>SC Adapter, Multimode, Phosphor Bronze Alignment Sleeve</td>
<td>MM</td>
</tr>
<tr>
<td>954-120-5000</td>
<td>SC Adapter, Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-120-5001</td>
<td>SC Adapter, Phosphor Bronze Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-944-5000</td>
<td>SC/FC Converting Adapter, Phosphor Bronze Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-944-5001</td>
<td>SC/FC Converting Adapter, Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-953-5000</td>
<td>SC/ST Converting Adapter, Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-953-5001</td>
<td>SC/ST Converting Adapter, Phosphor Bronze Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-103-5006</td>
<td>SC/APC, Singlemode, 126( \mu )m, Zirconia ferrule</td>
<td>SM</td>
</tr>
<tr>
<td>954-103-5606</td>
<td>SC/APC, Singlemode, 126( \mu )m, Zirconia ferrule, Pre angled</td>
<td>SM</td>
</tr>
<tr>
<td>954-120-5109</td>
<td>SC/APC Adapter, Singlemode, Zirconia Ceramic Alignment sleeve</td>
<td>SM</td>
</tr>
</tbody>
</table>

NOTES

- All connectors are available with 125\( \mu \)m ferrules
- All connectors are supplied with 900\( \mu \)m and 3.0mm boots
- Technical drawings available on request
SC Duplex Connectors & Adapters

SPECIFICATIONS

Connector Loss:
- 9/125 µm fibre, 0.19 dB typical
- 62.5/125 µm fibre, 0.21 dB typical
- 50/125 µm fibre, 0.14 dB typical

Durability: ≤ 0.20 dB change after 500 mating cycles

Operating Temperature: -40°C to +85°C

Intermateability: Conform to ANSI X3T9.3 SC specifications and are intermateable.

<table>
<thead>
<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
<th>FIBRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>954-101-5206</td>
<td>SC Duplex Connector S/mode 126-µm Zirconia PC Ferrule</td>
<td>SM</td>
</tr>
<tr>
<td>954-101-5210</td>
<td>SC Duplex Connector M/mode 128-µm Zirconia PC Ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>954-101-5211</td>
<td>SC Duplex Connector M/mode 144-µm Zirconia PC Ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>954-122-5210</td>
<td>SC Duplex Adapter M/mode Phosphor Bronze Alignment Sleeve</td>
<td>MM</td>
</tr>
<tr>
<td>954-953-5210</td>
<td>SC/ST Duplex Adapter M/mode Phosphor Bronze Alignment Sleeve</td>
<td>MM</td>
</tr>
<tr>
<td>954-120-5200</td>
<td>SC Duplex Adapter S/mode Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-122-5201</td>
<td>SC Duplex Adapter S/mode Phosphor Bronze Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-953-5200</td>
<td>SC/ST Duplex Adapter S/mode Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
</tbody>
</table>

NOTES

- All connectors available with 125µm ferrules
- All connectors supplied with 3.0mm boots
- Technical drawings available on request
ST® Compatible Connectors & Adapters

SPECIFICATIONS

Connector Loss:
- 9/125 µm fibre, 0.19 dB typical
- 62.5/125 µm fibre, 0.13 dB typical
- 50/125 µm fibre, 0.14 dB typical
- 100/140 µm fibre, 0.10 dB typical

Durability: ≤ 0.10dB change after 1000 mating cycles

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with AT&T ST, STII connectors and their functional equivalents.

ST® and ST II® are registered trademarks of AT&T

<table>
<thead>
<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
<th>FIBRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>953-101-5006</td>
<td>ST Connector, Singlemode 126µm, Zirconia PC ferrule, Yellow</td>
<td>SM</td>
</tr>
<tr>
<td>953-101-5008</td>
<td>ST Connector, Singlemode 128µm, Zirconia PC ferrule, Blue</td>
<td>SM</td>
</tr>
<tr>
<td>953-101-5010</td>
<td>ST Connector, Multimode 128µm, Zirconia PC ferrule, Black</td>
<td>MM</td>
</tr>
<tr>
<td>953-101-5011</td>
<td>ST Connector, Multimode 144µm, Zirconia PC ferrule, Grey</td>
<td>MM</td>
</tr>
<tr>
<td>953-122-5000</td>
<td>ST Adapter, Polymer Body, Phosphor Bronze Alignment Sleeve, Beige</td>
<td>SM/MM</td>
</tr>
<tr>
<td>953-120-5000</td>
<td>ST Adapter, Polymer Body, Zirconia Ceramic Alignment Sleeve, Black</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-953-5000</td>
<td>SC-ST Converting Adapter, Zirconia Ceramic Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>954-953-5001</td>
<td>SC-ST Converting Adapter, Phosphor Bronze Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
</tbody>
</table>

NOTES

- Connector body and coupling nut are precision molded from a flame retardant, glass filled polymer.
- The connector body is colour coded to indicate singlemode or multimode and ferrule size
- All connectors available with 125µm ferrules
- All connectors are supplied with 900µm and 3.0mm boots
- Technical drawings available on request
ST® Compatible (s/steel ferrule) Connectors & Adapters

SPECIFICATIONS

Connector Loss: 62.5/125 µm fibre, 0.35 dB typical

Durability: ≤ 0.03dB change after 500 mating cycles

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with AT&T ST, STII connectors and their functional equivalents.

ST® and STII® are trademarks of AT&T

<table>
<thead>
<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
<th>FIBRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>953-102-5001</td>
<td>ST connector, polymeric body &amp; Coupling Nut 128µm S/steel ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>953-102-5002</td>
<td>ST connector, polymeric body &amp; Coupling Nut 144µm S/steel ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>953-102-5003</td>
<td>ST connector, polymeric body &amp; Coupling Nut 231µm S/steel ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>953-102-5004</td>
<td>ST connector, polymeric body &amp; Coupling Nut 436µm S/steel ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>951-102-5005</td>
<td>ST connector, polymeric body &amp; Coupling Nut 641µm S/steel ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>953-102-5301</td>
<td>ST connector, metal body &amp; Coupling Nut 128µm S/steel ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>953-102-5302</td>
<td>ST connector, metal body &amp; Coupling Nut 144µm S/steel ferrule</td>
<td>MM</td>
</tr>
<tr>
<td>953-102-5303</td>
<td>ST connector, metal body &amp; Coupling Nut 231µm S/steel ferrule</td>
<td>MM</td>
</tr>
</tbody>
</table>

NOTES

- All connectors are supplied with 900µm and 3.0mm boots
- Custom hole sizes can be drilled to accommodate non standard fibres
- Technical drawings can be supplied on request
ST II® Compatible Connectors & Adapters

ST II® Compatible Connectors & Adapters

**SPECIFICATIONS**

Connector Loss:
- 9/125 µm fibre, 0.19 dB typical
- 62.5/125 µm fibre, 0.13 dB typical
- 50/125 µm fibre, 0.14 dB typical
- 100/140 µm fibre, 0.10 dB typical

Durability: < 0.10dB after 1000 mating cycles

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with AT&T ST, STII connectors and their functional equivalents.

ST® and STII® are trademarks of AT&T

<table>
<thead>
<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
<th>FIBRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>953-101-5306</td>
<td>ST Connector, Singlemode 126µm, Zirconia PC ferrule, Die Cast</td>
<td>SM</td>
</tr>
<tr>
<td>953-101-5308</td>
<td>ST Connector, Singlemode 128µm, Zirconia PC ferrule, Die Cast</td>
<td>SM</td>
</tr>
<tr>
<td>953-101-5310</td>
<td>ST Connector, Multimode 128µm, Zirconia PC ferrule, Die Cast</td>
<td>MM</td>
</tr>
<tr>
<td>953-101-5311</td>
<td>ST Connector, Multimode 144µm, Zirconia PC ferrule, Die Cast</td>
<td>MM</td>
</tr>
<tr>
<td>953-120-5003</td>
<td>ST Adapter, Die Cast, Zirconia Ceramic Alignment Sleeve</td>
<td>MM</td>
</tr>
<tr>
<td>953-122-5003</td>
<td>ST Adapter, Die Cast, Phosphor Bronze Alignment Sleeve</td>
<td>SM/MM</td>
</tr>
<tr>
<td>953-1061</td>
<td>ST Dust Cap and Chain</td>
<td>-</td>
</tr>
</tbody>
</table>

**NOTES**

- All connectors available with 125µm ferrules
- Connectors supplied with 900µm and 3.0mm boots
- Technical drawing available on request