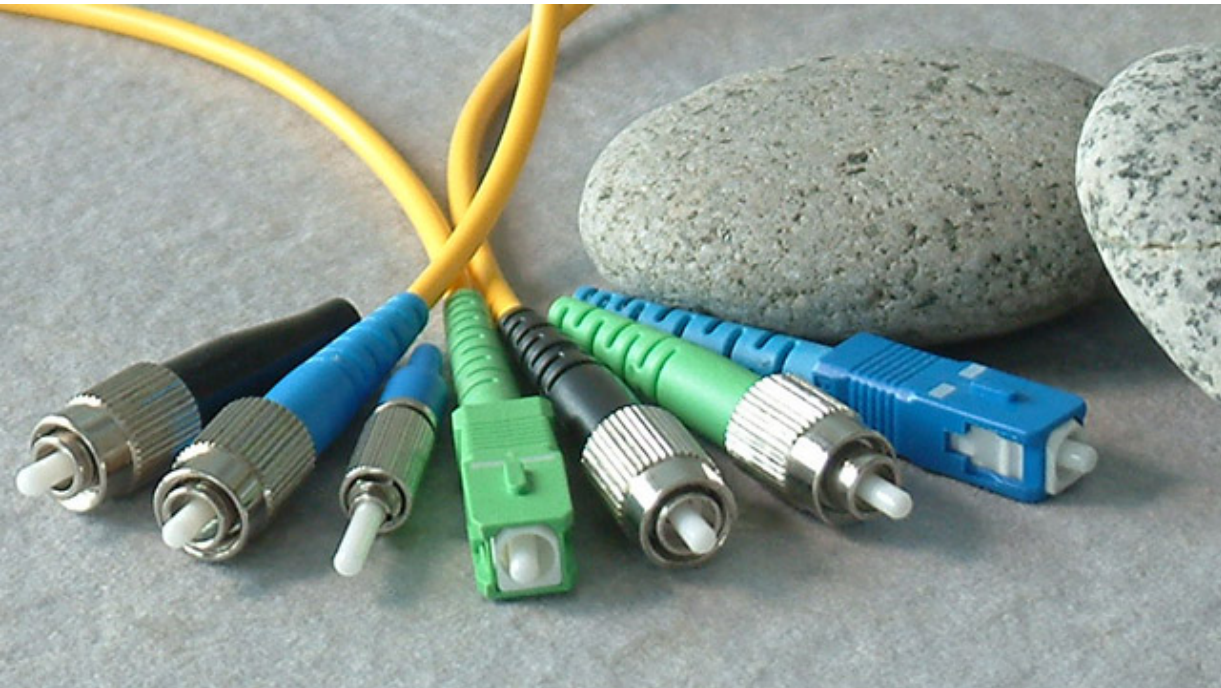


# FIBER OPTIC CONNECTORS

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SC, FC, ST, DIN, etc.



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- connecting the world with fiber optics



# SC FIBER OPTIC CONNECTORS

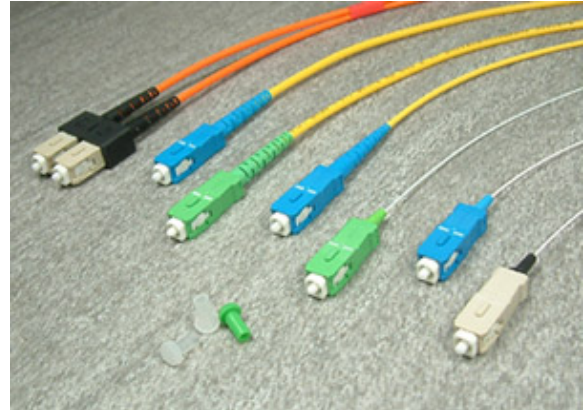
SC FIBER OPTIC CONNECTORS

## Description

The SC\* connectors used for our patch cords are designed to NTT-SC\* standards and are fully compatible with existing SC hardware. Two simplex connectors can be configured into a duplex format by adding a duplex clip.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality.

\*NTT-SC is a trademark of NTT Advanced Technology Corp.



## Features

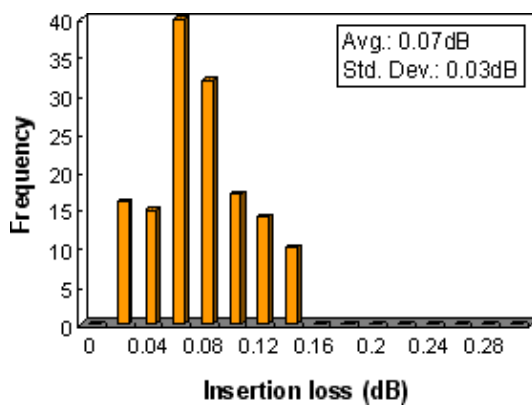
- Push-pull latching mechanism
- Non-optical disconnect performance
- High quality zirconia ferrules
- Materials meet RoHS requirements

## Applications

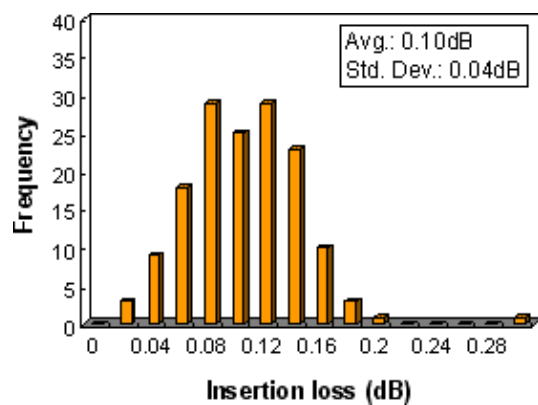
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

## Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



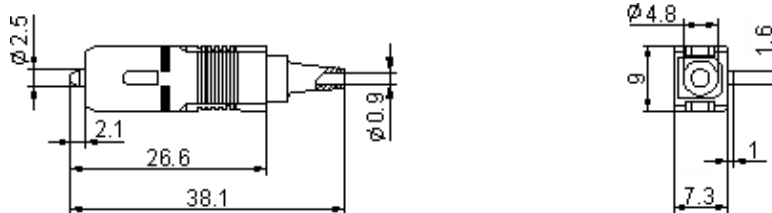
\* Typical performance charts and actual data may vary from lot to lot.

## Specifications

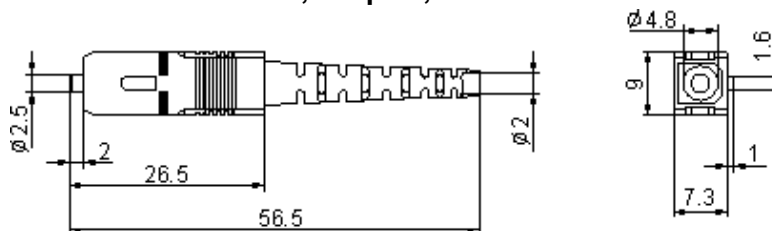
Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		PC	APC		
<b>Basic</b>					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-40 ~ +70			
Storage Temperature	°C	-40 ~ +70			
<b>Mechanical</b>					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Coupling strength	dB	ΔIL≤0.2			IEC 61300-2-6, 4.2kg, 2min
<b>Environmental</b>					
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

## Dimensional Drawing

SC/APC, simplex, 0.9mm boot

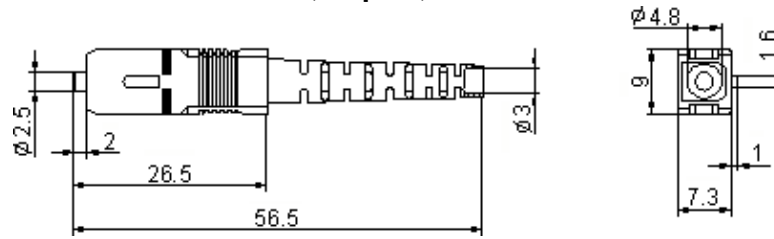


SC/PC, simplex, 2.0mm boot

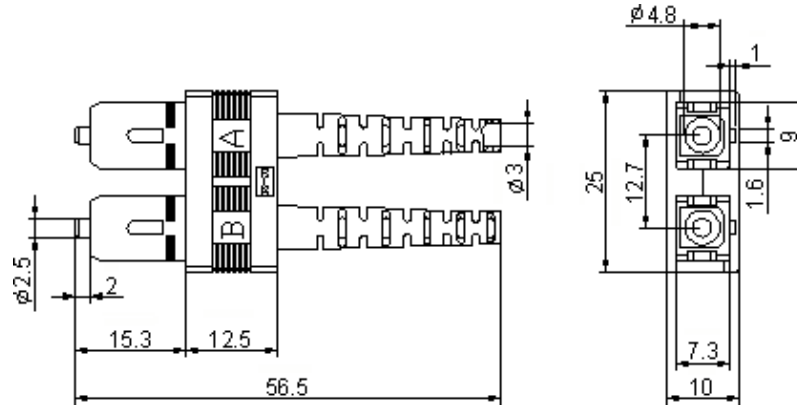


## Dimensional Drawing

SC/PC, duplex, 3.0mm boot



SC/PC, simplex, 2.0mm boot



## Ordering Information

Part Number: **CK-S P D K 3.0-26.0**

**1 2 3 4 5 6 7**

<b>1</b> Connector Form	CN=Pre-assembled Connector, CK=Connector Kit
<b>2</b> Connector Type	S=SC, F=FC, T=ST, L=LC, DN=DIN, etc.
<b>3</b> Ferrule End-face	P=PC, A=APC
<b>4</b> Cable Type	S=Simplex, D=Duplex
<b>5</b> Fiber	R=Single Mode, K=Multimode
<b>6</b> Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm
<b>7</b> Ferrule Hole Size	25.0=125.0um, 25.5=125.5um, 26.0=126.0um, etc.

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## FC FIBER OPTIC CONNECTORS

### Description

The FC\* connectors used in our patch cords are designed to NTT-FC\* standards with high quality zirconia ferrules and non-optical disconnect performance. They are fully compatible with existing FC hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality.

\*NTT-FC is a trademark of NTT Advanced Technology Corp.



### Features

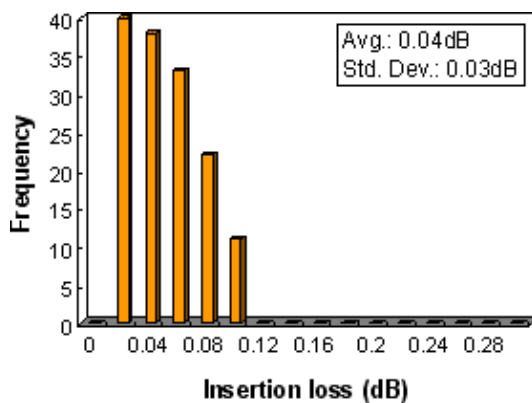
- Non-optical disconnect performance
- High quality zirconia ferrules
- Low insertion loss and high return loss
- Materials meet RoHS requirements

### Applications

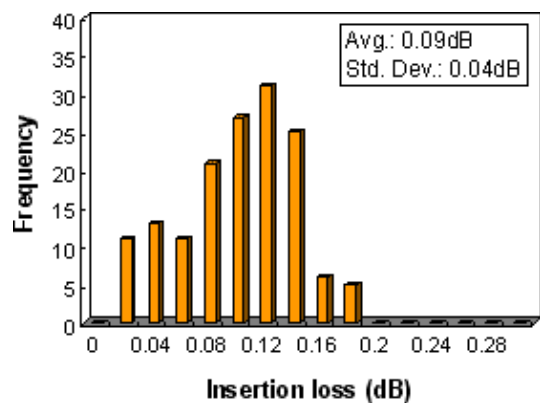
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

### Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



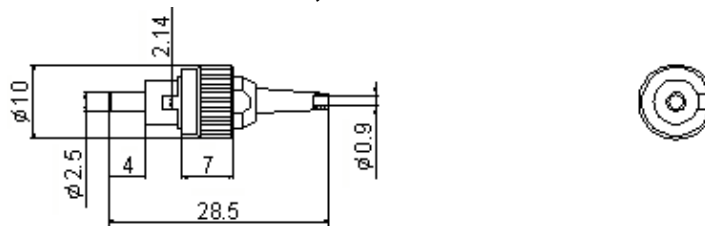
\* Typical performance charts and actual data may vary from lot to lot.

## Specifications

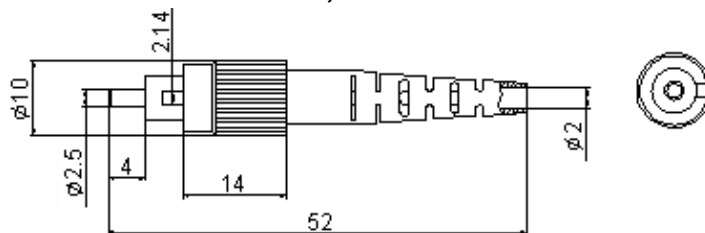
Characteristics	Unit	Value/Performance		Comments	
		SM			MM
		PC	APC		
<b>Basic</b>					
Insertion Loss (IL)	dB	≤0.3		IEC 61300-3-4	
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60 ≥23	IEC 61300-3-6	
Endurance	dB	ΔIL≤0.2		IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles	
Operating Temperature	°C	-40 ~ +70			
Storage Temperature	°C	-40 ~ +70			
<b>Mechanical</b>					
Drop	dB	ΔIL≤0.2		IEC 61300-2-12, 1.5m, 5 drops, no damage	
Vibration	dB	ΔIL≤0.2		IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis	
Flex	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable	
Twist	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable	
Pull Proof	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable	
<b>Environmental</b>					
Salt mist		No sign of corrosion		IEC 61300-2-26, 5% NaCl, 30°C, 7 days	
Cold	dB	ΔIL≤0.2		IEC 61300-2-17, -20°C, 96 hrs	
Dry Heat	dB	ΔIL≤0.2		IEC 61300-2-18, 70°C, 96 hrs	
Damp Heat	dB	ΔIL≤0.2		IEC 61300-2-19, 40°C, 95%RH, 96 hrs	

## Dimensional Drawing

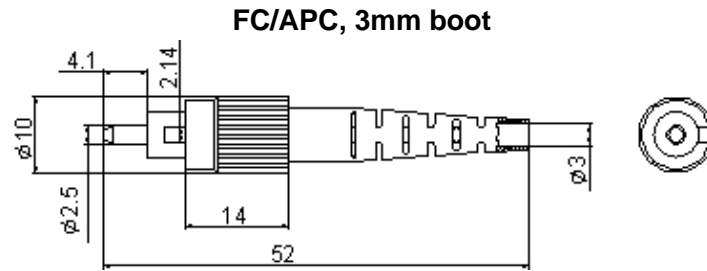
FC/PC, 0.9mm boot



FC/PC, 2mm boot



## Dimensional Drawing



## Ordering Information

Part Number: **CK-F A S R 0.9-25.5**

**1 2 3 4 5 6**

- |                            |  |
|----------------------------|--|
| <b>1</b> Connector Form    | CN=Pre-assembled Connector, CK=Connector Kit   |
| <b>2</b> Connector Type    | F=FC, S=SC, T=ST, L=LC, DN=DIN, etc.           |
| <b>3</b> Ferrule End-face  | P=PC, A=APC                                    |
| <b>4</b> Fiber             | R=Single Mode, K=Multimode                     |
| <b>5</b> Cable Diameter    | 3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm             |
| <b>6</b> Ferrule Hole Size | 25.0=125.0um, 25.5=125.5um, 26.0=126.0um, etc. |

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## ST FIBER OPTIC CONNECTORS

### Description

The ST\* connectors used in our patch cords employ half-twist bayonet locking mechanism and high quality 2.5mm zirconia ferrules. They are fully compatible with existing ST type hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality.

\*ST is a trademark of Lucent Technologies



### Features

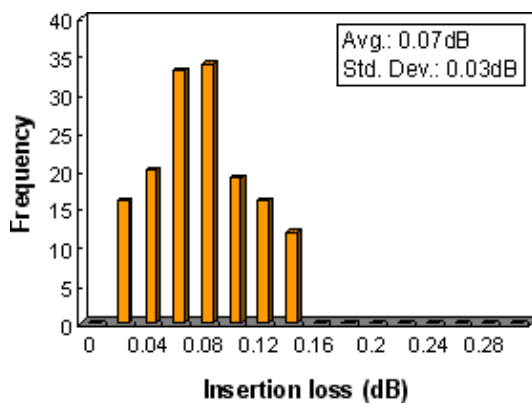
- ST compatible bayonet coupling
- Metal body and zirconia ferrule
- Low insertion loss and high return loss
- Materials meet RoHS requirements

### Applications

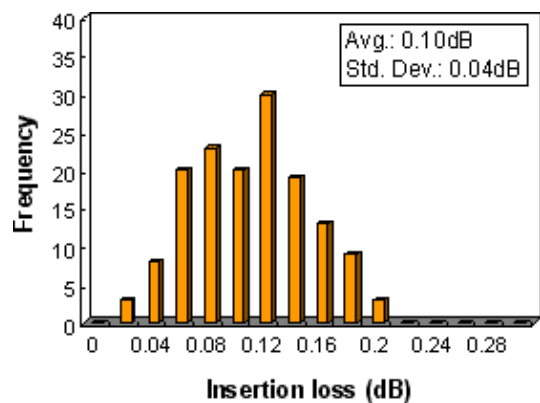
- Local Area Networks
- Fast Ethernet
- Fiber Channel
- ATM Networks
- Instrumentation

### Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um



\* Typical performance charts and actual data may vary from lot to lot.

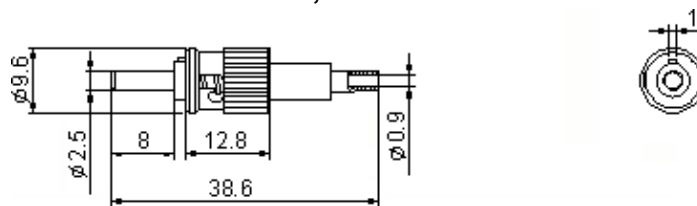


## Specifications

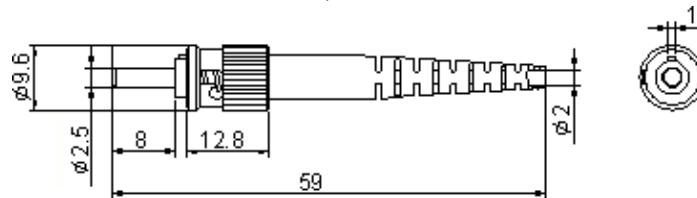
Characteristics	Unit	Value/Performance		Comments	
		SM			MM
		SPC	UPC		
<b>Basic</b>					
Insertion Loss (IL)	dB	≤0.3		IEC 61300-3-4	
Return Loss (RL)	dB	≥45	≥50	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2		IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles	
Operating Temperature	°C	-40 ~ +70			
Storage Temperature	°C	-40 ~ +70			
<b>Mechanical</b>					
Drop	dB	ΔIL≤0.2		IEC 61300-2-12, 1.5m, 5 drops, no damage	
Vibration	dB	ΔIL≤0.2		IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis	
Flex	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable	
Twist	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable	
Pull Proof	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable	
<b>Environmental</b>					
Salt Mist		No sign of corrosion		IEC 61300-2-26, 5% NaCl, 30°C, 7 days	
Cold	dB	ΔIL≤0.2		IEC 61300-2-17, -20°C, 96 hrs	
Dry Heat	dB	ΔIL≤0.2		IEC 61300-2-18, 70°C, 96 hrs	
Damp Heat	dB	ΔIL≤0.2		IEC 61300-2-19, 40°C, 95%RH, 96 hrs	

## Dimensional Drawing

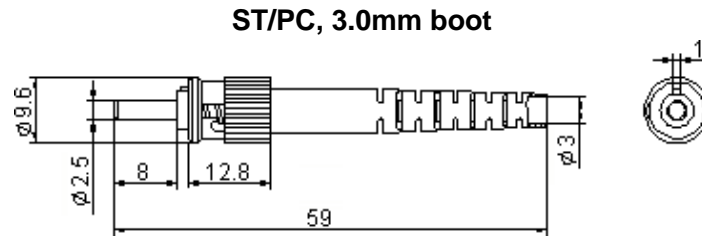
ST/PC, 0.9mm boot



ST/PC, 2mm boot



## Dimensional Drawing



## Ordering Information

Part Number: **CN- T P S K 3.0-26.0**

**1 2 3 4 5**

<b>1</b>	Connector Type	T=ST, F=FC, S=SC, DN=DIN, L=LC, etc.
<b>2</b>	Ferrule End-face	P=PC, A=APC
<b>3</b>	Fiber	R=Single Mode, K=Multimode
<b>4</b>	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm
<b>5</b>	Ferrule Hole Size	25.0=125.0um, 25.5=125.5um, 26.0=126.0um, etc.

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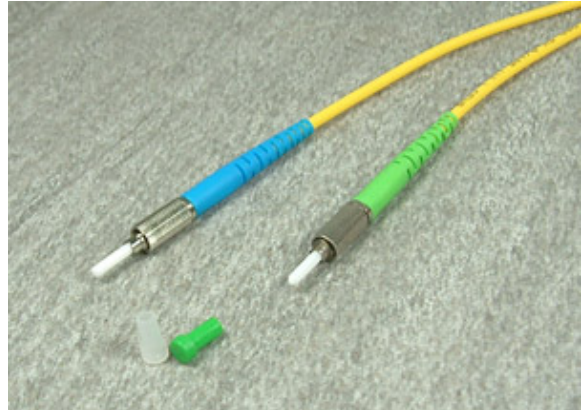


## DIN FIBER OPTIC CONNECTORS

### Description

The DIN connectors meet DIN 47256. They are compact and have spring-loaded free floating zirconia ferrules for superior performance.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements.



### Features

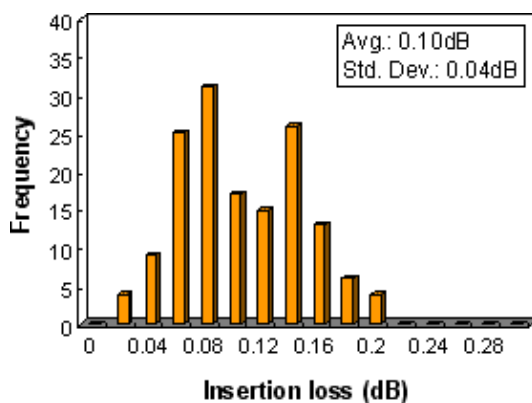
- Compatible with DIN 47256
- Compact design
- Low insertion loss and high return loss
- Materials meet RoHS requirements

### Applications

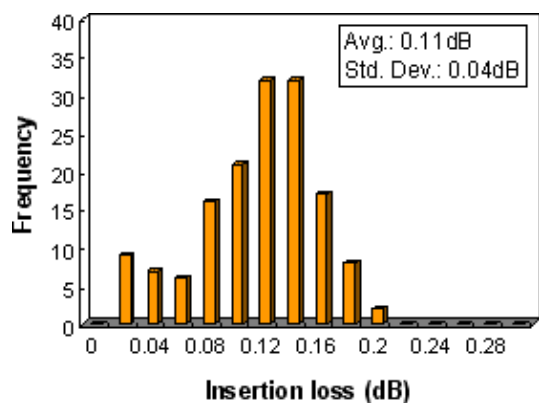
- Telecommunication
- Computer networks
- CATV networks
- Instrumentation

### Optical Performance Distribution

Insertion Loss, SM 9/125um PC



Insertion Loss, SM 9/125um APC



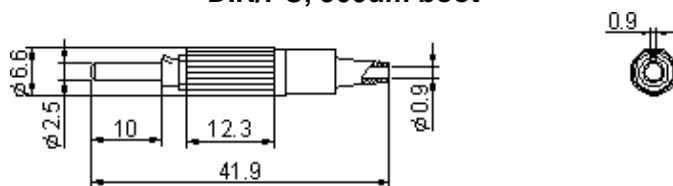
\* Typical performance charts and actual data may vary from lot to lot.

## Specifications

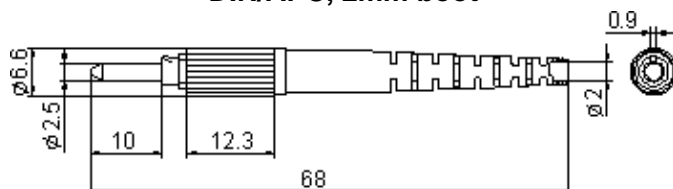
Characteristics	Unit	Value/Performance		Comments	
		SM			MM
		PC	APC		
<b>Basic</b>					
Insertion Loss (IL)	dB	≤0.3		IEC 61300-3-4	
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60 ≥23	IEC 61300-3-6	
Endurance	dB	ΔIL≤0.2		IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles	
Operating Temperature	°C	-40 ~ +70			
Storage Temperature	°C	-40 ~ +70			
<b>Mechanical</b>					
Drop	dB	ΔIL≤0.2		IEC 61300-2-12, 1.5m, 5 drops, no damage	
Vibration	dB	ΔIL≤0.2		IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis	
Flex	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable	
Twist	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable	
Pull Proof	dB	ΔIL≤0.2		Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable	
<b>Environmental</b>					
Salt mist		No sign of corrosion		IEC 61300-2-26, 5% NaCl, 30°C, 7 days	
Cold	dB	ΔIL≤0.2		IEC 61300-2-17, -20°C, 96 hrs	
Dry Heat	dB	ΔIL≤0.2		IEC 61300-2-18, 70°C, 96 hrs	
Damp Heat	dB	ΔIL≤0.2		IEC 61300-2-19, 40°C, 95%RH, 96 hrs	

## Dimensional Drawing

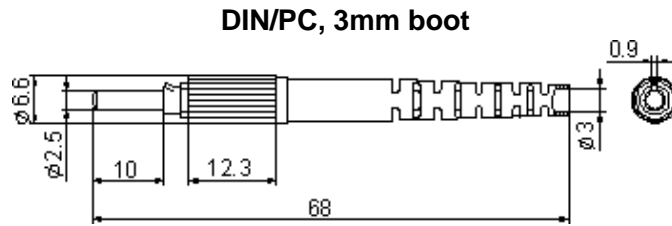
DIN/PC, 900um boot



DIN/APC, 2mm boot



## Dimensional Drawing



## Ordering Information

Part Number: **CN-DN P S R 3.0-25.5**

**1 2 3 4 5**

<b>1</b> Connector Type	DN=DIN, F=FC, S=SC, T=ST, L=LC, etc.
<b>2</b> Ferrule End-face	P=PC, A=APC
<b>3</b> Fiber	R=Single Mode, K=Multimode
<b>4</b> Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm
<b>5</b> Ferrule Hole Size	25.0=125.0um, 25.5=125.5um, 26.0=126.0um, etc.

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