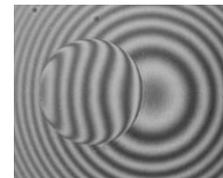
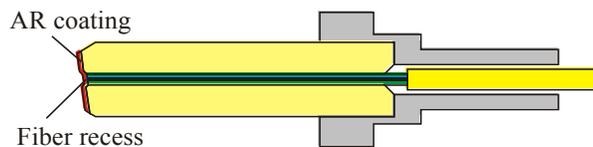


# Non-Contact Fiber Connectors



"Non-Contact" (NC) fiber connector is the next generation optical fiber connector invented by Arrayed Fiberoptics, where there is no contact between fiber surfaces. There are two key elements in the NC connector, 1) the fiber surface is recessed, 2) the fiber surface has an anti-reflection coating. It offers vastly improved optical performance and longevity.

Because the fiber surface is recessed and do not contact the mating surface, NC connectors do not damage connectors under test. This is ideal for all testing needs, especially for testing fiber optic transceivers.



## Unique Features

- Low insertion loss (typically < 0.1dB).
- Excellent return loss (> 65dB).
- Excellent mating repeatability (< 0.01dB).
- Exceptional durability (>5,000 matings, no damage).
- Does not make contact with fiber surface of DUT.
- Guaranteed random mating.
- Insensitive to dust and contaminants.
- Can withstand severe vibrations.

## Benefits

- Greatly reduces damage to DUT.
- Dramatically increases connector life.
- Lowers operational cost.
- Compatible with existing fiber connectors.

## Performance Specifications

Non-Contact (NC and ANC) connectors are compatible with conventional connectors (PC and APC). Below is typical performance of various connector combinations.

Connector Mating Type	Connector Angle: 0 degree		Connector Angle: 8 degree	
	PC to NC	NC to NC	APC to ANC	ANC to ANC
Insertion Loss	0.15-0.35 dB	0-0.15 dB	0.15-0.35 dB	0-0.15 dB
Return Loss	14 dB	28 dB	60 dB	70 dB
Mating Life	>5,000 cycles	>5,000 cycles	>5,000 cycles	>5,000 cycles

## Connector Detail

- Connector Type: SC, FC, LC.
- AR coating wavelength band: Typically 1310nm and 1550nm dual band.
- Fiber recess ranges from 0 to 6 micron.
- Fiber type: SM, MM, PM.
- Cable type: 3mm, 2mm, 0.9mm.

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