



FC CONNECTORS



FC CONNECTORS



Amphenol's 944 Series fiber optic FC connectors effectively terminate optical fiber in a variety of network applications. The connector is secured using a threaded coupling nut, providing a significant increase in pull-out performance. The FC connector also features an internal cavity and epoxy injection tube that virtually eliminates the possibility of improper epoxy application, thus providing higher manufacturing yields.

Every aspect of the connector system is precision manufactured to produce reliable and consistent performance. The 944 series is available in tunable or non-tunable PC versions for flexibility in specific performance requirements. The FC/APC connector system features a tight-fit keyway that prohibits the possible mis-mating between FC/PC and FC/APC connectors.

Features and Benefits

- One-piece construction
- Non-optical disconnect feature design prevents signal interruption
- Teflon tube in rear of connector ensures clean epoxy injection
- High precision zirconia ferrules minimize insertion loss and return loss values
- Available in singlemode, angled singlemode, and multimode versions
- Available with 900µm, 2.0mm, or 3.0mm, 45/90 degree, and flex boots
- Tunable version available
- Stainless steel ferrules also available
- Compliant to IEC 61754-13 and TIA/EIA 604-4 specifications



Amphenol
FIBER OPTIC PRODUCTS

Specifications

Insertion Loss: $\leq 0.15\text{dB}$ typical, singlemode
 $\leq 0.23\text{dB}$ typical, APC
 $\leq 0.25\text{dB}$ typical, multimode

Return Loss: Ultra (UPC) $\leq -55\text{dB}^*$
Angle (APC) $\leq -65\text{dB}^*$

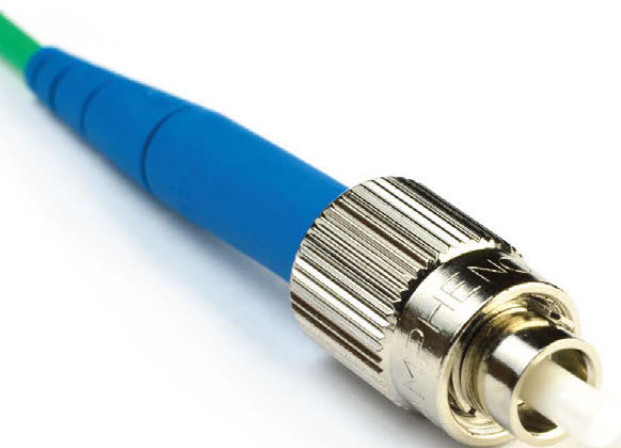
Durability: $< 0.2\text{dB}$ change, 500 mating cycles

Temperature: $< 0.3\text{dB}$ change, -40 to $+85^\circ\text{C}$

Intermateability:

Amphenol FC connectors are mechanically and optically intermateable with industry standard FC connectors and adapters and conform to TIA/EIA, IEC, and Telcordia specifications.

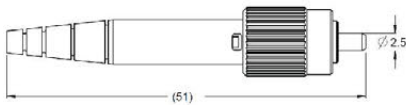
*Performance is polish dependent





FC Connector Ordering Information

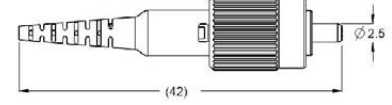
Part # (FC Connectors with Ceramic Ferrules)	Description	Recommended Cable Diameter	Body Clip	Boot
944-601-53203B	FC Connector, Multimode, 128µm Zirconia Ferrule	128µm	3mm	Black
944-601-53293B	FC Connector, Singlemode, 125.5µm Zirconia Ferrule	125.5µm	3mm	Black
944-601-53293L	FC Connector, Singlemode, 125.5µm Zirconia Ferrule	125.5µm	3mm	Blue
944-603-53393G	FC/APC Connector, Singlemode, 125.5µm Zirconia Conical Ferrule	125.5µm	3mm	Green
944-601-53202B	FC Connector, Multimode, 128µm Zirconia Ferrule	128µm	2mm	Black
944-601-53292B	FC Connector, Singlemode, 125.5µm Zirconia Ferrule	125.5µm	2mm	Black
944-601-53292L	FC Connector, Singlemode, 125.5µm Zirconia Ferrule	125.5µm	2mm	Blue
944-603-53392G	FC/APC Connector, Singlemode, 125.5µm Zirconia Conical Ferrule	125.5µm	2mm	Green
944-601-53209B	FC Connector, Multimode, 128µm Zirconia Ferrule	128µm	900µm	Black
944-601-53299B	FC Connector, Singlemode, 125.5µm Zirconia Ferrule	125.5µm	900µm	Black
944-601-53299L	FC Connector, Singlemode, 125.5µm Zirconia Ferrule	125.5µm	900µm	Blue
944-603-53399G	FC/APC Connector, Singlemode, 125.5µm Zirconia Conical Ferrule	125.5µm	900µm	Green
Part # (FC Connectors with Stainless Steel Ferrules)				
944-602-50128-P	FC Connector, Multimode, 128µm Stainless Steel Ferrule	128µm	3mm	Black
944-602-50144-P	FC Connector, Multimode, 144µm Stainless Steel Ferrule	144µm	3mm	Black
944-602-50231-P	FC Connector, Multimode, 231µm Stainless Steel Ferrule	231µm	3mm	Black



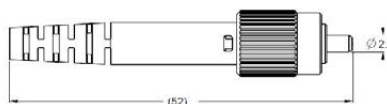
FC Connector with 2.0mm Boot



FC Connector with 3.0mm Boot



FC Connector with 900µm Boot



FC Connector with Stainless Steel Ferrule and 3.0mm Boot

FC VARIATIONS



Standard

Connector Body



High Performance



Standard



900µm



45°



90°



Flex Boot

Boots

Amphenol
FIBER OPTIC PRODUCTS