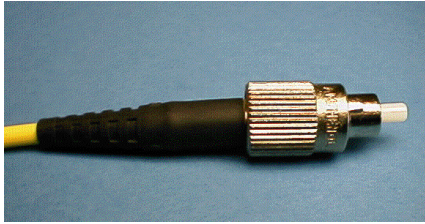


Singlemode & Multimode Connectors

MAIN CHARACTERISTICS



The high precision manufactured ceramic ferrules are preradiused to reduce the insertion loss and back reflection.

The easy and quick termination process of the Amphenol Socapex FC/PC connector is particularly adapted to the cabling on the field (polishing without machine).

It is fully compatible with the FC standard.

Technical description

- Typical insertion loss :
 - Singlemode fiber : 0,3 dB at 1300 nm and 1550 nm
 - Multimode fiber : 0,3 dB
- Typical back reflection (singlemode fiber)
 - < - 30 dB (PC interface, cabling on the battlefield)
 - < - 45 dB (super PC, Amphenol Socapex cabling)
- Reproducibility : $\pm 0,1$ dB
- Durability : 1000 mating/ unmating cycles
- Cable retention by crimping : ≥ 10 daN ($\varnothing 3$ mm)
- Operating temperature : -20°C , $+70^{\circ}\text{C}$
- Temperature stability : 0,1 dB on the range $[-20^{\circ}\text{C}$, $+70^{\circ}\text{C}]$
- Connector materials :
 - Metal Body
 - Zirconium ceramic ferrule
- Screw locking system
- Connector indexing
- Spring loaded connector for physical contact butt coupling
- Termination by epoxy polish with polishing machines
- Termination by epoxy polish with field tool kit in 5 minutes

Features

The Amphenol Socapex singlemode and multimode FC/PC connectors have been designed and developed in order to satisfy the requirements of the network telecom applications.

Applications

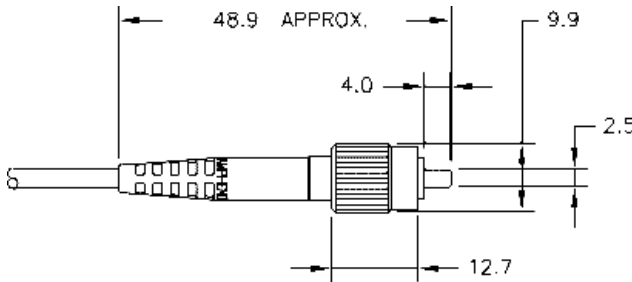
- Telecommunication and videocommunication networks, singlemode local area networks
- CATV
- Sensors

Amphenol

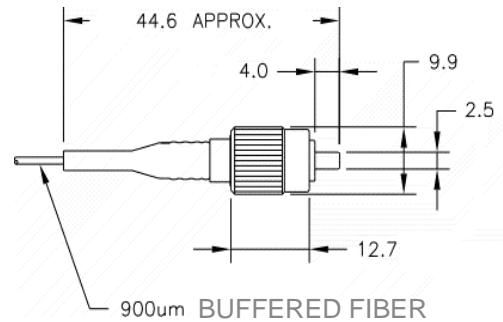


Line Drawings (dimensions in mm)

FC CONNECTOR FOR Ø 2.8mm CABLE



FC CONNECTOR FOR Ø 900µm BUFFERED FIBER



How to order FC connectors :

FC connector, 126µm (singlemode) or 127µm (multimode) ceramic ferrule

Multimode / Singlemode	Part number	Body	Boot 900 µm	Boot 3 mm	Crimp ferrule	Packaging
Multimode	944-601-5010F09BP	×	×			1000
Multimode	944-601-5010F30BP	×		×	×	1000
Multimode	944-601-5010F39BP	×	×	×	×	1000
Multimode	944-601-5010F39U	×	×	×	×	1
Singlemode	944-601-5006F09BP	×	×			1000
Singlemode	944-601-5006F30BP	×		×	×	1000
Singlemode	944-601-5006F39BP	×	×	×	×	1000
Singlemode	944-601-5006F39U	×	×	×	×	1

FC adapters (for details, see on adapters data sheet) :

- Square Flange
- D Hole