



# Fiber Optics

**PRIORITY** ELECTRONICS LTD.

Since 1980 PRIORITY has focused on supplying the communications industry with connectivity solutions. Our company's backbone consists of a team of professional people dedicated to meeting your requirements. The PRIORITY team is backed by state of the art manufacturing and test equipment as well as a substantial inventory of fiber optic components. Whether you need product tomorrow or technical assistance today, we are here to support you!

Today's communications world requires flexible, quality solutions at competitive pricing. Give us a call to discuss your requirements 1-800-478-0447.

## Some of the products and services PRIORITY offers:

Multimode and Singlemode patchcords to any length - all connector styles (See ordering guide following page)

Hybrid patchcords - all connector styles

Pre-terminated Multimode and Singlemode multifiber Stubs - all connector styles

Multimode and Singlemode Multifiber Patchcords - all connector styles

Pre-terminated Stubs assembled for all popular frames and panel designs

Custom labeling options

Pulling eyes and custom designed reel options

Small form factor connector styles MU, LC, MTRJ & MTP

Hybrid MTRJ assemblies with standard 2.5mm ferrule connector styles



All are built to the highest quality standards. All fiber assemblies that are shipped from Priority are serialized and are 100% tested. Test results are kept on file at Priority. For more information please don't hesitate to call one of our knowledgeable sales staff.

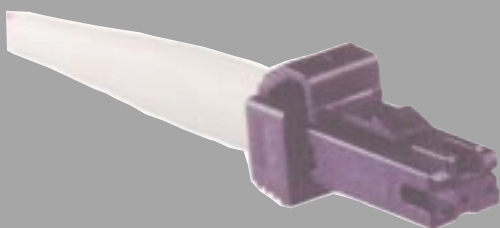
Bulkhead Attenuators Female to Female (SC, FC, ST and D4)

Male to Female Attenuators (SC, FC and ST)

Male to Female Adapters

Female to Female Adapters (Couplers SC, FC, ST, D4, LC, MTRJ, MU and MTP)

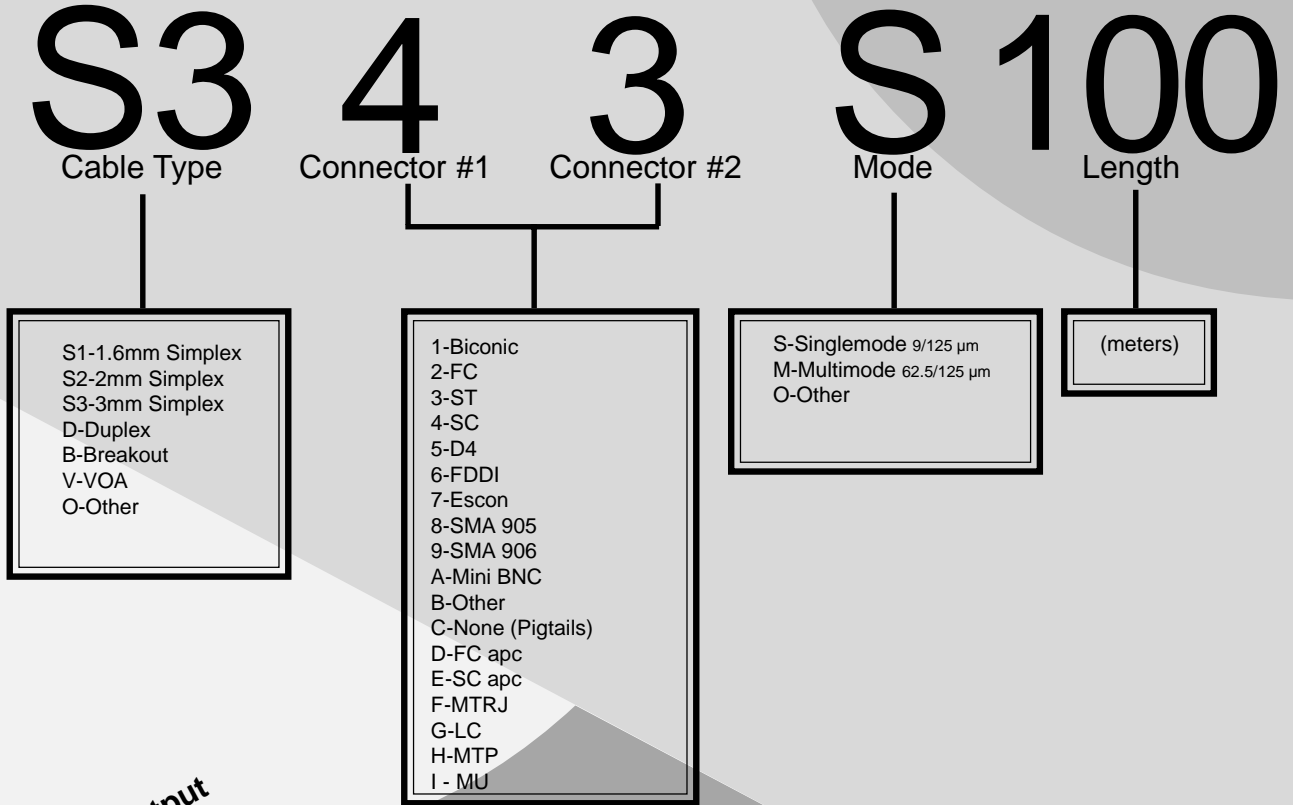
Variable Optical Attenuators with -25dB, 40dB, 50dB or -60dB Return Losses



# Ordering Guide

You require a simplex (3mm) SC-ST, singlemode patch cord 100 meters in length.

Your part number would be: **S343S100**



Interferometer Output

The screenshot shows the Accis software interface for an APC connector. The main window displays four views: Surface Contour Display, Surface Fitting Display, 3D-Mesh Display, and a Live Image of the interferometer output. The Live Image shows concentric circular fringes, indicating a spherical surface. The Information panel on the right shows the following details:

Information	Value
Method	Red
Connector Type	APC
Object Pwr	10
Scan Type	Normal

The central panel displays the following connector specifications:

Parameter	Value	Unit	Status
Connector ID	FCapc 020		PASS
Group Name	APC Pre ne		
Curv. Radius(mm)	10.24	10.03 - 10.47	Pass
Spherical Height(um)	0.015		Pass
Linear(um)	44.9	-30.9 - 32.6	Pass
APC Polish Angle(deg)	8.182		
APC Keying Offset(deg)	-0.173		

At the bottom of the window, the taskbar shows the Start button, the Accis software icon, and the Microsoft Photo Editor icon. The system clock shows 10:19 AM.

# Singlemode Fiber Assembly Specification

The search for the highest quality fiber optic assembly ends at Priority!

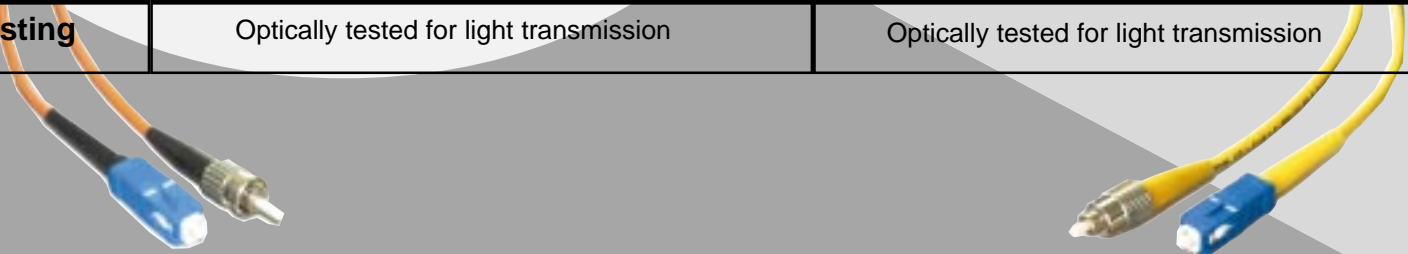
		<b>PRIORITY</b> Performance Series	<b>PRIORITY</b> Platinum Series	Description	For Comparison Telcordia 326 Issue 3
<b>Optical Performance</b>	Insertion Loss	0.25 dB	0.2 dB	Insertion loss limits transmission distance	.25dB
	Return Loss	-55 dB	-55 dB	Return loss can interfere with laser performance increasing noise	-55 dB
	Radius	7-25mm	7-25mm	Ensures glass to glass contact at the ferrule endface	7-25mm
	Apex Offset	0-50µm	0-50µm	Ensures proper alignment and good glass to glass contact	0-50µm
<b>Geometry</b>	Spherical Height	-125nm to 50nm	-50nm to 50nm	Excess undercut may inhibit glass contact, excessive protrusion may cause fiber damage	-125nm to 50nm
	Fiber Roughness	0-25nm	0-25nm	Excessive roughness prevent contact	not specified
	Ferrule Roughness	0-50nm	0-50nm	Excessive roughness prevent contact	not specified
	testing	batch tested	100% tested	Non-contact interferometer testing	not specified
	Core of Fiber	no visible defects	no visible defects	Defects are possible sources of contamination and fracture over temp. and humidity	not specified
<b>Visual Criteria</b>	Cladding	visible defects allowed if >10µm from core. 80% free of defects	no visible defects	Defects are possible sources of contamination and fracture over temp. and humidity	not specified
	Ferrule Contact Zone (225µm diameter)	10nm <sup>2</sup>	no visible defects	Excessive Defects may prevent contact	not specified
<b>Epoxy</b>	Temp. Coeff. (Tg)	105	120	Reduces fiber creep over temperature	105
	Curing Method	standard	outgassed	Outgassing eliminates epoxy gaps and resultant local stresses	not specified
	Visual	light ring acceptable	no visible ring	Excess epoxy can collect contaminants	not specified
<b>Connector</b>	Telcordia Compliant	Yes	Yes	GR-326-CORE Issue 3.	



## **PRIORITY** Comp Series Specifications

The search for competitively priced fiber optic assemblies ends at Priority!

Characteristics	Multimode Comp Series	Singlemode Comp Series
<b>Cable</b>	62.5/125 Multimode Simplex or Duplex	9/125 Corning Glass, Simplex or Duplex
<b>Connectors</b>	Ceramic Ferrules, plastic & metal construction	Ceramic Ferrules, plastic & metal construction
<b>Visual Criteria</b>	Not Visually Inspected	Visually Inspected 200x scope .5 micron scratches acceptable thru out 80% cladding free of imperfections
<b>Testing</b>	Optically tested for light transmission	Optically tested for light transmission



The Priority Comp Series of fiber optic patch cords has been developed to meet the needs of the price conscious consumer. The Comp Series patch cords are assembled in a controlled manufacturing environment utilizing the latest manufacturing techniques. The Comp Series assemblies are made of high quality components including ceramic ferrules and name brand patch cord.

Look no further than Priority for all your cabling requirements!

Make the **PRIORITY** Connection!

**Call toll free 1-800-478-0447**