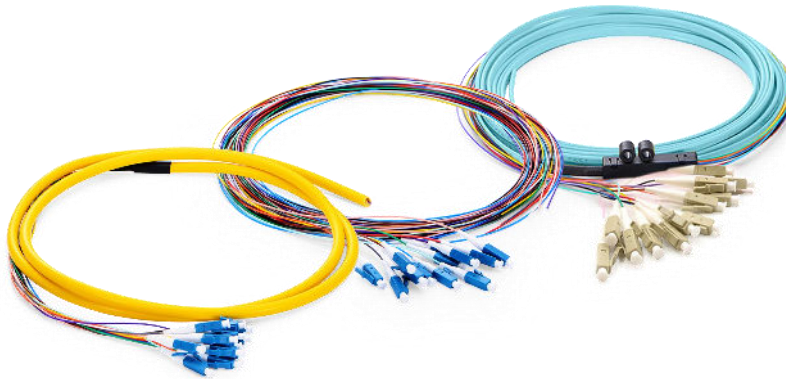


# Fiber Optic Pigtail

Fiber Optic Termination (LC, SC, FC, ST Connectors)



## Acumen Fiber Optic Pigtail

Acumen Fiber Optic Pigtails are tight-buffered fiber optic cables with a factory pre-terminated connector on one end and bare fiber on the other end for splicing applications.

They are available in both simplex (single fiber) and multifiber configurations. Acumen also offers full customization options, including fiber count, cable length, connector types, fiber grade, cable structure, and cable diameter to meet various project requirements.

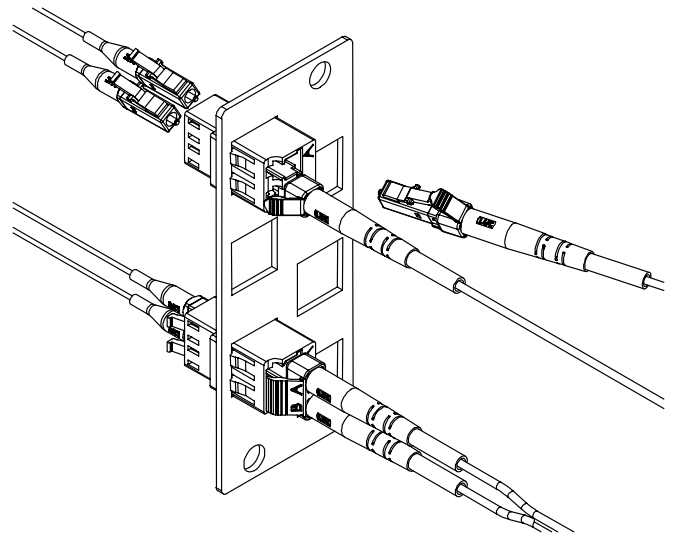
Acumen Fiber Optic Pigtails provide a fast, reliable, and efficient solution for field installation and optical network connections. Each unit is factory-terminated and 100% tested, ensuring ready-to-use performance with high quality and consistency.

### Features

- Low Smoke Zero Halogen (LSZH) buffer
- 900 micron buffer
- Low bend loss design
- Fully compatible with legacy fibers
- UL standard connectors, comply with ROHS requirements
- Complied the standards of ITU-T G.652.D  
ANSI/TIA-568.3D, ANSI/ICEA 596,  
FOTP EIA/TIA-455, ISO/IEC 11801:2017

### Applications

- Telecommunication Networks
- FTTX, FTTH
- LAN, WAN, CATV and MAN applications
- Fiber Communication Systems
- Data Processing Networks



# SPECIFICATIONS

Parameter	Unit	Singlemode UPC and APC Pigtails			
		UPC		APC	
Connector type		SC	LC	SC	LC
Insertion Loss	dB	≤0.2		≤0.3	
Return Loss	dB	≥50		≥60	
Fiber type		G.652.D			
Pigtail length	m	2			
Buffer style	dB	Tight Buffer 900µm			
Buffer Material		PVC (LSZH optional)			
Temperature	°C	Operating temperature		from -45 to +85	
		StorageTemperature		from -45 to +85	
Pulling Force	N	200			
Buffer Diameter		2.0 mm / 3.0 mm			
Ferrule		Zirconia ceramic, Pre-radiused			
Length		1m, 1.5m , 2m and 3m			

## Visual Inspection Criteria for Fiber Optic Connectors with Fiber

Figure 2- Definition of regions and defects

**A = RESTRICTED AREA**

$$A = (\text{fiber OD} + d) / 2$$

Fiber OD=125 microns  
 d- is the core diameter of the fiber  
 d for SM = 8 microns  
 d for MM is 62 microns  
 A=66 microns for SM fiber  
 A=95 microns for MM fiber

**B = FIBER SURFACE**

AREA OUTSIDE RESTRICTED "A" TO EDGE OF FIBER(125 UM)

**C = FERRULE SURFACE**

FERRULE AREA COVERING AREA FROM 125 TO 250 MICRONS

**D = FERRULE PEDESTAL**

**E = CHAMFER**

**F=OUTSIDE CYLINDRICAL SURFACE**

