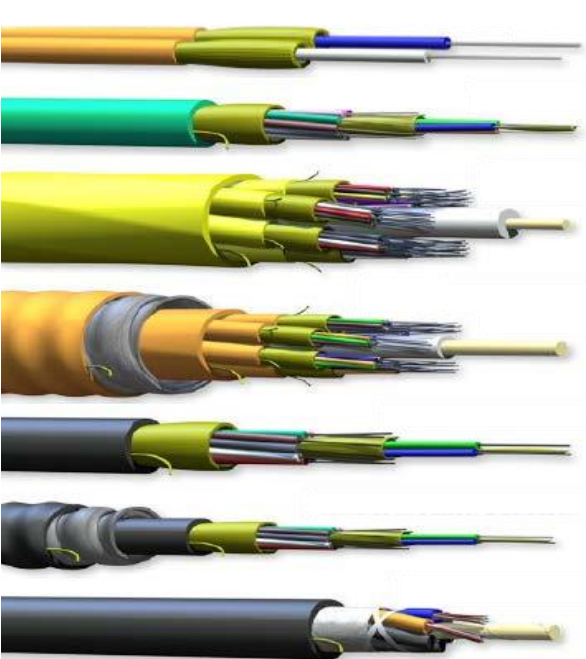


# Fiber Optical Cabling Infrastructure Offer



## ① High-Speed Fiber Cabling Systems

FS.COM offers an extensive line of off the shelf bulk fiber optic cable to meet high bandwidth demand in Local Area Network (LAN) campus and building backbones as well as Data Center backbones.

## ② Well-designed Cabling Infrastructure

With the highest fiber density relative to cable size, maximize use of pathway and spaces, and facilitate ease of termination, a properly Infrastructure can better accomplish people's need for productivity and innovation.

## ③ Prefect Data Center Solutions

FS.COM offer a cost-effective and best-in-class data center solution towards more universal and rapid broadband networks varying from data transmission to cable management.

## OEM and Custom

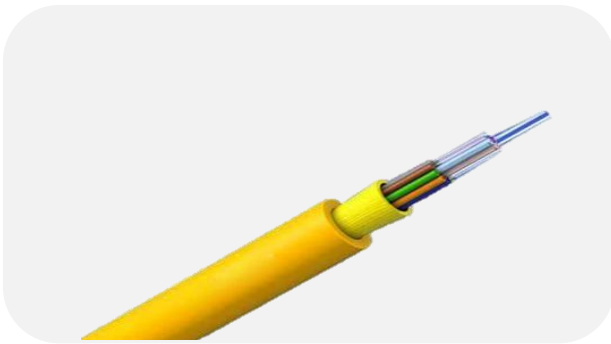
- Cable Structure
  - Tight-buffered, Loose tube, Armored
- Flammability Rating
  - Riser (OFNR)
  - LSZH (Low smoke zero halogen)
  - Plenum (OFNP)
- Fiber Type
  - SM OS2, MM,10G OM3, 10G OM4
- Fiber Count
  - 2~144 Fibers
- Jacket Color
  - Yellow, orange, aqua, customized

## Indoor Optical Fiber Cable

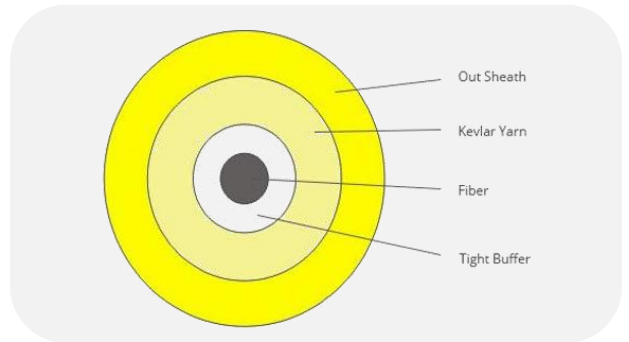
### Singer Fiber, Tight Buffer Indoor Interconnect Cable

Single-fiber cables are designed for interconnect applications. A 900µm buffered fiber is surrounded by aramid yarn strength members and a flame-retardant PVC jacket, especially used in optical connections in optical communication equipment rooms and optical distribution frames, optical apparatus and equipments.

#### Tight Buffer Indoor Cable-Simplex



#### Inner Structure-Simplex



## Features and Benefits

- Easy to strip and terminate
- Good mechanical and environmental characteristics
- Flame-retardant and colored outer jacket
- Kevlar yarn material ensures high tensile strength
- Flexible, small diameter, 900µm tight-buffered construction
- Especially for LC/SC/ST/FC fiber cable assembly
- Available in PVC, LSZH and Plenum flame retardant jacket

## Application

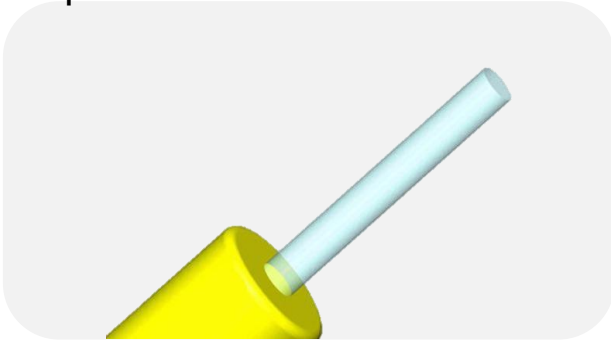
- Pigtails and Jumpers
- Installed within walls, under raised floors, and in air-return spaces
- Interconnection in horizontal spaces between fiber optic equipments

## Indoor Optical Fiber Cable

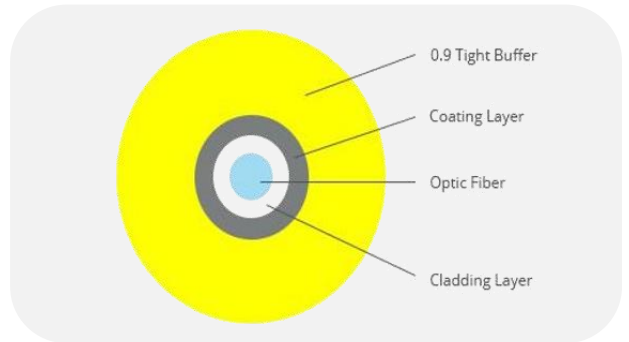
### Single-Fiber, 900µm Tight Buffer Indoor Interconnect Cable

The 900µm tight-buffered cable consists of a bare fiber which coated with a layer of PVC material on the surface. This cable is especially used in optical connections in optical communication equipment rooms and optical distribution frames, optical apparatus and equipments.

#### Tight Buffer Indoor Cable-900µm Simplex



#### Tight Buffer Indoor Cable-900µm Simplex



## Features and Benefits

- Easy to strip and terminate
- Good mechanical and environmental characteristics
- Flame-retardant and colored outer jacket
- Kevlar yarn material ensures high tensile strength
- Flexible, small diameter, 900µm tight-buffered construction
- Especially for LC/SC/ST/FC fiber cable assembly
- Available in PVC, LSZH and Plenum flame retardant jacket

## Application

- Pigtails and Jumpers
- Installed within walls, under raised floors, and in air-return spaces
- Interconnection in horizontal spaces between fiber optic equipments

## Technical Specification

Parameter	Unit	Life Cycle	Single Fiber	900 $\mu$ m
Minimum Tensile Strength	N	short term	100	100
		long term	60	50
Minimum Crush Load	N/100mm	short term	500	100
		long term	100	80
Minimum Bending Radius	MM	short term	20D	20D
		long term	10D	10D
Storage Temperature	°C	-20 to +60		

## Optical Characteristic

Parameter	Unit	G.652		50/125 $\mu$ m		62.5/125 $\mu$ m	
Attenuation	dB/km	1310nm	$\leq 0.36$	850nm	$\leq 3.0$	850nm	$\leq 3.0$
		1550nm	$\leq 0.22$	1300nm	$\leq 1.0$	1300nm	$\leq 1.0$
Bandwidth	MHz·	-	-	850nm	$\geq 600$	850nm	$\geq 200$
	km	-	-	1300nm	$\geq 1200$	1300nm	$\geq 600$
Numerical Aperture	NA	-		0.200 $\pm$ 0.015		0.275 $\pm$ 0.015	

## Order Information

Fiber Type	Part Number	Flammability Rating	Cable Diameter (mm)	Weight (Kg)
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### Singlemode 9/125 OS2

Single Fiber	TBIR-OS2-SXR	Riser	2.0/3.0mm	8
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900µm	TBIR-OS2-900	Riser	0.9mm	3
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### Multimode 62.5/125 OM1

Single Fiber	TBIR-OM1-SXR	Riser	2.0/3.0mm	8
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900µm	TBIR-OM1-900	Riser	0.9mm	3
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### Multimode 50/125 OM2

Single Fiber	TBIR-OM2-SXR	Riser	2.0/3.0mm	8
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900µm	TBIR-OM2-900	Riser	0.9mm	3
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### Multimode 50/125 OM3

Single Fiber	TBIR-OM3-SXR	Riser	2.0/3.0mm	8
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900µm	TBIR-OM3-900	Riser	0.9mm	3
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### Multimode 50/125 OM4

Single Fiber	TBIR-OM4-SXR	Riser	2.0/3.0mm	8
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900µm	TBIR-OM4-900	Riser	0.9mm	3
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## Order Information

Fiber Type	Part Number	Flammability Rating	Cable Diameter (mm)	Weight (Kg)
<b>Singlemode 9/125 OS2</b>				
Single Fiber	TBIR-OS2-SXR	LSZH	2.0/3.0mm	8
900µm	TBIR-OS2-900	LSZH	0.9mm	3
<b>Multimode 62.5/125 OM1</b>				
Single Fiber	TBIR-OM1-SXR	LSZH	2.0/3.0mm	8
900µm	TBIR-OM1-900	LSZH	0.9mm	3
<b>Multimode 50/125 OM2</b>				
Single Fiber	TBIR-OM2-SXR	LSZH	2.0/3.0mm	8
900µm	TBIR-OM2-900	LSZH	0.9mm	3
<b>Multimode 50/125 OM3</b>				
Single Fiber	TBIR-OM3-SXR	LSZH	2.0/3.0mm	8
900µm	TBIR-OM3-900	Riser	0.9mm	3
<b>Multimode 50/125 OM4</b>				
Single Fiber	TBIR-OM4-SXR	LSZH	2.0/3.0mm	8
900µm	TBIR-OM4-900	LSZH	0.9mm	3

## Order Information

Fiber Type	Part Number	Flammability Rating	Cable Diameter (mm)	Weight (Kg)
------------	-------------	---------------------	---------------------	-------------

### Singlemode 9/125 OS2

Single Fiber	TBIR-OS2-SXR	Plenum	2.0/3.0mm	8
900µm	TBIR-OS2-900	Plenum	0.9mm	3

### Multimode 62.5/125 OM1

Single Fiber	TBIR-OM1-SXR	Plenum	2.0/3.0mm	8
900µm	TBIR-OM1-900	Plenum	0.9mm	3

### Multimode 50/125 OM2

Single Fiber	TBIR-OM2-SXR	Plenum	2.0/3.0mm	8
900µm	TBIR-OM2-900	Plenum	0.9mm	3

### Multimode 50/125 OM3

Single Fiber	TBIR-OM3-SXR	Plenum	2.0/3.0mm	8
900µm	TBIR-OM3-900	Plenum	0.9mm	3

### Multimode 50/125 OM4

Single Fiber	TBIR-OM4-SXR	Plenum	2.0/3.0mm	8
900µm	TBIR-OM4-900	Plenum	0.9mm	3



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