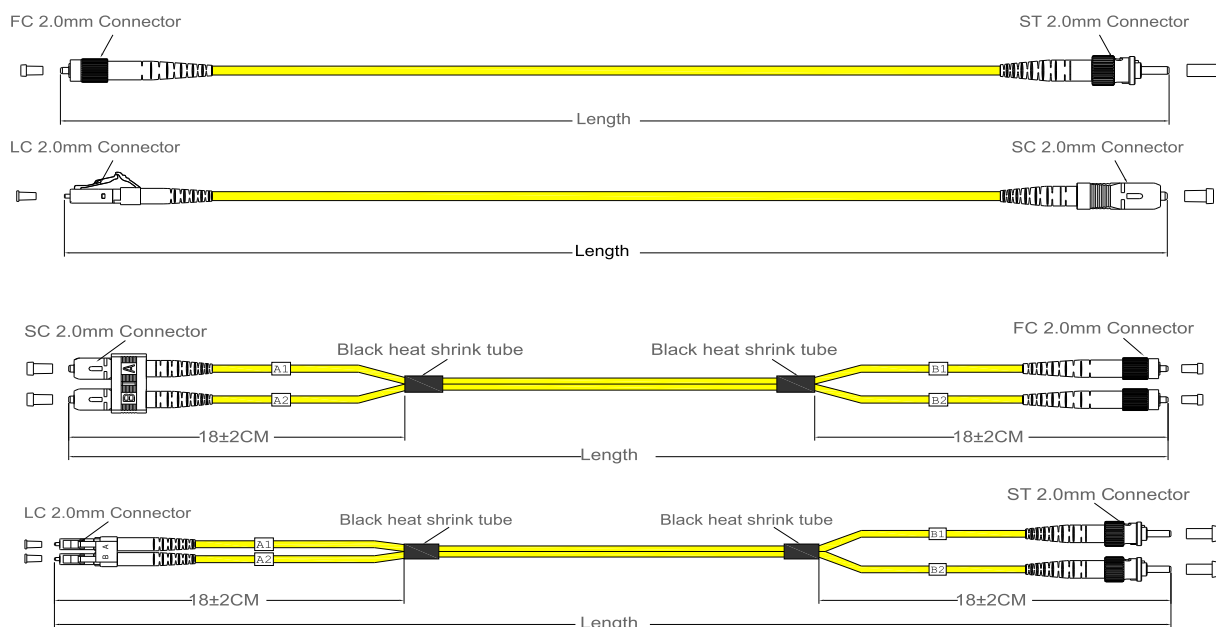


Product Overview

The fiber optic patch cord mainly used on patch panel or for the connection between outlets and terminal equipment. It also widely used for high bit rate data transmission, telecommunications, testing instruments, active device terminations, LAN/WAN and FTTX.



Description

WIREX offers singlemode and multimode, simplex and duplex Indoor Fiber Jumper Cables manufactured to tight internal specifications that exceed industry-accepted standards. Fiber assemblies are used in a variety of carrier networks and private network environments. The key to manufacturing high-performance fiber assemblies is controlling polish radius, apex offset and fiber undercut. WIREX monitors its automated polishing process to exceed industry specifications for insertion and return loss, ensuring a top-quality product.

Features and Benefits

Protection

- Each fiber is individually covered with an outer jacket for added protection
- Wide variety of jacket sizes for all applications, 3 mm, 2 mm, 1.6 mm, 1.2 mm, 900 µm
- Riser and Plenum rated jacket options available
- Available in simplex, dual-round and dual zip-cord configurations

Access

- Compact jacket design minimizes cable pile up
- Industry standard terminations include ST, SC, FC, LC

Investment

- Indoor Jumper Assemblies offer an economical solution for deploying fiber in any optical network
- Environmentally stable, low-insertion loss, minimal back reflection
- All assemblies are 100% tested

Features and Benefits

Indoor Fiber Jumper Cables	
Core Size and Type	Singlemode and multimode
Fiber Count	Simplex (1-fiber) and duplex (2-fiber)
Jacket O.D.	900 µm, 1.6 mm, 2.0 mm, 3.0 mm
Cable Types	Indoor Riser, Indoor Plenum, Indoor LSZH
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC, FC/UPC, FC/APC, ST/UPC
Operating Temperature	-20°C to 70°C

Minimum Performance Specifications for Terminated Singlemode Connectors

Connector Type	Ferrule Material	Polish Type	Ins. Loss, Typical	Max. Ins. Loss	Min. Ret. Loss
ST	Ceramic	UPC	0.15 dB	0.20 dB	55.00 dB
SC	Ceramic	UPC	0.15 dB	0.20 dB	55.00 dB
FC	Ceramic	UPC	0.15 dB	0.20 dB	55.00 dB
LC	Ceramic	UPC	0.15 dB	0.20 dB	55.00 dB
SC	Ceramic	APC	0.15 dB	0.20 dB	65.00 dB
FC	Ceramic	APC	0.15 dB	0.20 dB	65.00 dB
LC	Ceramic	APC	0.15 dB	0.20 dB	65.00 dB

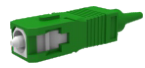






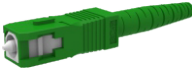





















Minimum Performance Specifications for Terminated Multimode Connectors

Connector Type	Ferrule Material	Polish Type	Ins. Loss, Typical	Max. Ins. Loss
ST	Ceramic	PC	0.25 dB	≤ 0.50 dB
SC	Ceramic	PC	0.25 dB	≤ 0.50 dB
FC	Ceramic	PC	0.25 dB	≤ 0.50 dB
LC	Ceramic	PC	0.25 dB	≤ 0.50 dB










Cable and component color

Cable	Fiber Mode	SM	OM1/OM2	OM3	OM4	OM5
	Cable Color	Yellow	Orange	Aqua	Purple	Lemon Green
12 Color: Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Purple, Pink, Aqua.						
Housing	LC UPC/APC	Blue/Green	Beige	Aqua	Purple	Lemon Green
	SC UPC/APC	Blue/Green	Beige	Aqua	Purple	Lemon Green
	FC/ST	Metal				
Boot	LC UPC/APC	White/Green	White	Aqua	Purple	Lemon Green
	SC UPC/APC	Blue/Green	Beige	Aqua	Purple	Lemon Green
	FC UPC/APC	Black/Green	Black			
	ST UPC/APC	Black/Green	Black			
Dust cap	(SC/APC·FC/APC) Green Dust cap			(SC/PC·FC/PC·ST/PC·LC/PC·LC/APC) Transparent Dust cap		

Connector Type:

Connector	OD	Simplex	Duplex
SC Connector	0.9 mm		/
	1.2 mm		
	1.6 mm		
	2.0 mm		
	3.0 mm		
LC Connector	0.9 mm		/
	1.2 mm		
	1.6 mm		
	2.0 mm		
	3.0 mm		
TLC Connector	0.9 mm		/
	2.0 mm		
	3.0 mm		
FC Connector	0.9 mm		/
	2.0 mm		/
	3.0 mm		/
ST Connector	0.9 mm		/
	2.0 mm		/
	3.0 mm		/

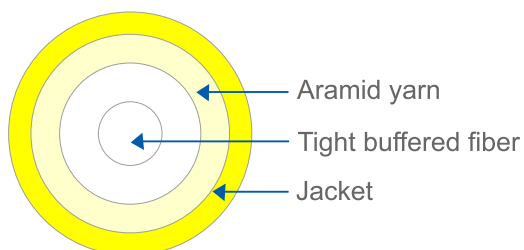
Connector Type:

Connector	OD	Simplex	Duplex
SC Connector 23 mm Short boot	2.0 mm		
	3.0 mm		
LC Connector 14.5 mm Short boot	2.0 mm		
	3.0 mm		
MU Connector	2.0/3.0 mm		/
E2000 Connector	2.0/3.0 mm		/
LC HD Connector	1.6/2.0 mm		/
LC HD Uniboot	2.0/3.0 mm		/

Cable Characteristics:

- High strength aramid yarn strength member ensures high tensile strength and long term stability in transmission.
- Small outer diameter, lightweight, flame-retardant, easy to strip, low attenuation, physically soft.
- Direct splicing between tight buffer cables and need no tie-in box or pigtail.
- Suitable for installation, operation, and convenient for maintenance.

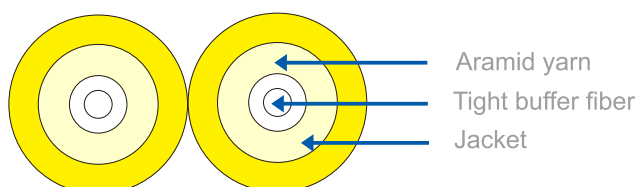
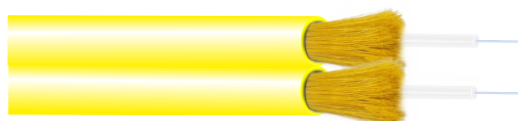
Indoor Cable Series (Simplex):



Technology Parameters

Fiber Count		1							
Outer Diameter (mm)		1.2	1.6	1.8	2.0	2.4	2.8	3.0	3.2
Nominal weight (kg/km)		2.2	2.9	3.2	3.5	5.0	6.5	6.8	7.0
Max.tensile strength(N)	Short-term	50	80	80	100	100	120	150	150
	Long-term	20	40	40	60	60	70	80	80
Min.Bending Radius (mm)	Dynamic	20D							
	Static	10D							
Max.Crush Resistance(N/100mm ²)		500							

Indoor Cable Series(Duplex):



Technology Parameters

Fiber Count		2				
Outer Diameter D*H (mm)		1.6*3.3	1.8*3.7	2.0*4.1	2.8*5.7	3.0*6.1
Nominal weight (kg/km)		5.7	6.7	8.2	13.2	13.8
Max.tensile strength(N)	Short-term	160	160	200	300	300
	Long-term	80	80	100	160	160
Min.Bending Radius	Dynamic	20H				
	Static	10H				
Max.Crush Resistance (N/100mm ²)		1000				

Applications:

- As building to building connecting cable
- As Indoor soft cable along the wall, ceiling, between layers and in conduits
- As pigtails, movable connectors and patch cords for communication equipment

Temperature Range:

- -20 °C ~ + 70 °C

Optical Characteristics:

Fiber Type	Attenuation				OFL	Effective Mode Broadband	10G Ethernet Link Length	Minimum Bending Radius
Condition	1310/1550 nm		850/1300 nm		850/1300 nm	850 nm	850 nm	
	Typical	Max.	Typical	Max.				
Value	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4						16
G657A1	0.36/0.22	0.5/0.4						10
G657A2	0.36/0.22	0.5/0.4						7.5
G657B3	0.35/0.21	0.5/0.4						5
50/125			3.0/1.0	3.5/1.5	≥500/500			30
62.5/125			3.0/1.0	3.5/1.5	≥200/500			30
OM3			3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	30
OM4			3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	30