

FIBER OPTIC PATCH CORD

FJ-XX-XXXX-XXXX-XXXX-X-X-X
PATCH CORDS

The MEXFOSERV® Fiber Optic Patch Cords, also called fiber optic jumpers, are available in various fiber types, fiber/cable constructions and connector options. We have a large stock of cables and connectors for a fast turnaround on custom assemblies.

These factory-based assemblies are machine polished to ensure excellence in performance intermateability and durability. All patch cords are video inspected to ensure connector end-faces are free of defects and contamination. Insertion loss is tested using standard-based testing procedures.



Simplex Single-mode fiber optic patch cord



Simplex Multi-mode fiber optic patch cord



Duplex Single-mode fiber optic patch cord



Duplex Multi-mode fiber optic patch cord

APPLICATIONS

- Telecommunication networks
- Data communication networks
- Broadband & CATV Networks
- Cross connect patching
- Equipment/Switch interconnections

GENERAL CHARACTERISTICS

- Custom lengths available
- 1 m, 3 m, 5 m & 10 m (3.28 ft, 9.8 ft, 16.4 ft & 32.8 ft) standard lengths
- Serial number for each jumper
- APC & UPC polish
- Single-mode & multi-mode fiber
- Simplex & Duplex assemblies
- Hybrid configurations
- OD available in Simplex: 900µm
- OD available in Simplex & Duplex: 1.2 mm, 1.6mm, 2mm & 3mm
- Available with SC, LC, ST, FC, MU & E2000 connectors

STANDARDS

- RoHS
- ANSI/TIA-568-C.3
- ANSI/TIA-598-C
- GR-326-CORE
- GR-1221-CORE
- GR-1209-CORE

Note: Illustrative images



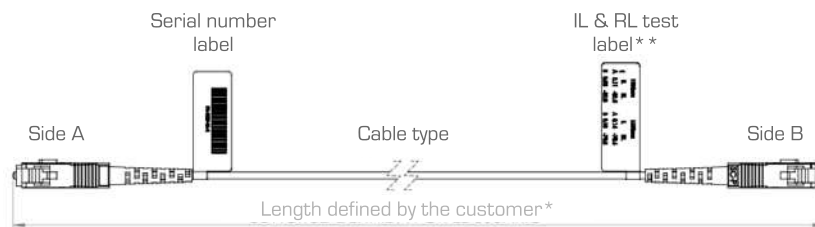
MEXFOSERV® offers a large variety of fiber optic cable assemblies. If you don't see what you are looking for or have questions about our ordering matrix contained on this spec sheet please email us info@mexfoserv.com



SPECIFICATIONS

SINGLE-MODE SPECIFICATIONS										
	UPC (ULTRA-PHYSICAL CONTACT)						APC (ANGLED PHYSICAL CONTACT)			
CONNECTOR TYPE *	SC	FC	ST	LC	MU	E2000	SC	FC	LC	E2000
Standard body color	Blue	Metallic	Metallic	Blue	Brown	Blue	Green	Metallic	Green	Green
2 & 3mm boot color	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green
900µm boot color	Blue	Blue	Blue	White	N/A	N/A	Green	Green	White	N/A
** Max. Insertion Loss (1310nm & 1550nm)	≤ 0.20 dB						≤ 0.20 dB			
** Min. Return Loss (1310nm & 1550nm)	≥ -55dB						≥ -65 dB			
Ferrule Type	Ceramic						Ceramic			
Ferrule Diameter	2.5mm		1.25mm		2.5mm		2.5mm		1.25mm	2.5mm
Operational Temperature	-40°C ~ 75°C [-40°F ~ 167°C]									
* ST connectors not available in 1.2mm. E2000 connectors available in 2mm only. MU available only with 1.6mm & 2mm. ** As per the tables above, maximum insertion loss (IL) & return loss (RL) fall well below the maximum connector IL & RL allowed under GR-1221-CORE & GR-1209-CORE.										
MULTI-MODE SPECIFICATIONS										
	UPC (ULTRA-PHYSICAL CONTACT)									
CONNECTOR TYPE	SC	FC	ST	LC						
Standard Body Color	Beige	Metallic	Metallic	Beige						
900µm, 2 & 3mm boot color	Black	Black	Black	Black						
900µm, 2 & 3mm Optimized boot color	Aqua	Aqua	Aqua	Aqua						
* Max Insertion Loss (850nm & 1300nm)	≤ 0.35 dB									
* Min Return Loss (850nm & 1300nm)	≥ -35 dB									
Ferrule Type	Ceramic									
Ferrule Diameter	2.5mm			1.25mm						
** As per the tables above, maximum insertion loss (IL) & return loss (RL) fall well below the maximum connector IL & RL allowed under GR-1221-CORE & GR-1209-CORE.										

DIMENSIONS



Illustrative image

Notes: *Patch cord length tolerances are the following:

L < 1.0 m; +0.05 m / - 0.0 m

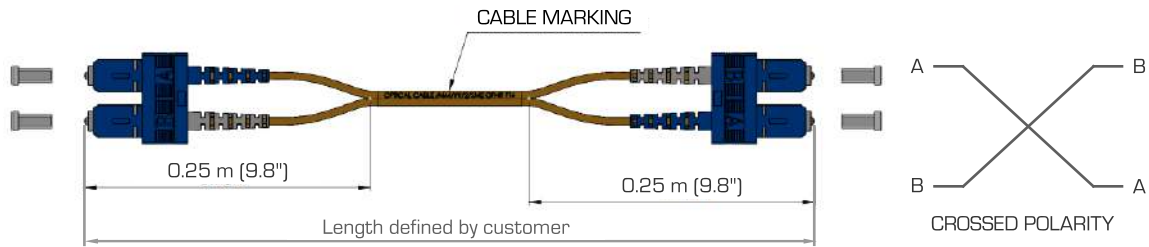
L ≥ 1.0 m; +0.15 m / - 0.0 m

L ≥ 10.0 m; +3% / -0.0 m

** IL & RL test results will not be shown individually if the patch cord has a hybrid configuration.



DUPLEX PATCH CORD POLARITY SPECIFICATIONS



PACKAGING

MASTER BOX PACKAGING SPECIFICATIONS				
900UM & 1.2MM SX PATCH CORD	1.6MM TO 3.0MM SX PATCH CORD	1.6MM TO 3.0MM DX PATCH CORD	INDIVIDUAL BAG	ASSEMBLIES PER MASTER BOX
.5 - 50 mts	.5 - 30 mts	.5 - 15 mts	1141 bag 8" X 8"	48 bags in a MEXFO03 master box
51 - 80 mts	31 - 80 mts	16 - 40 mts	1119 bag 10" X 12"	8 bags in a MEXFO03 master box
REEL PACKAGING				
	1.6MM TO 3.0MM SX PATCH CORD	1.6MM TO 3.0MM DX PATCH CORD	INDIVIDUAL REEL	REEL BOX
	Length superior to 80 meters	Length superior to 40 meters	3494-005 Reel	1 reel per master box MEXFO02

Notes:

1. If Final Inspection & Geometry tests are required in a printed version, these have an additional cost. Please request quotation with your Sales Executive.
2. If you require your cable assemblies on a reel, please contact your Sales Executive to request your quotation.



PRODUCT WEIGHT

The weight of the fiber optic patch cord could vary because of the cable diameter; length of the assembly or connector type. For this reason we add the next section, where the weight can be calculated with a simple formula and the data of the table.

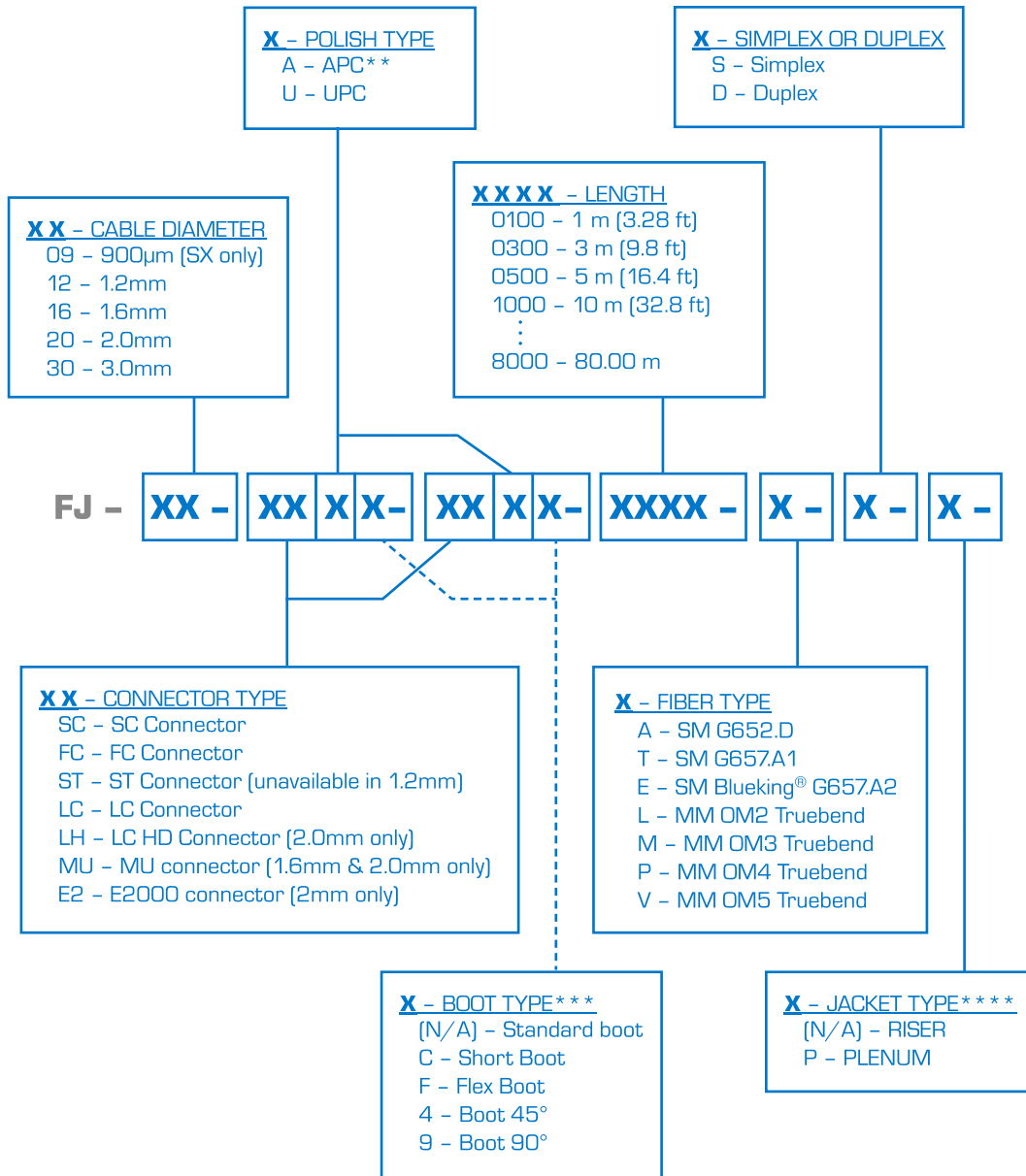
$$[\text{Meters of cable} \times \text{Weight of the cable depending on the diameter}] + [\text{Connector weight} \times 2] = \text{Total weight} \pm 5 \text{ gr}$$

CABLE WEIGHT				
CABLE DIAMETER CONFIGURATION	900µm	1.6mm	2.0mm	3.0mm
Weight of the cable (gr/mt)	.9	2.9	3.9	6.6
SC CONNECTOR WEIGHT				
DESCRIPTION	INDIVIDUAL WEIGHT			
3mm SC Simplex Connector	3.125 gr			
2mm SC Simplex Connector	3.145 gr			
900um SC Simplex Connector	3.485 gr			
4.8mm SC Simplex Connector	4.985 gr			
LC CONNECTOR WEIGHT				
DESCRIPTION	INDIVIDUAL WEIGHT			
3mm LC Duplex Connector	2.5 gr			
2mm LC Duplex Connector	3 gr			
900um LC Simplex Connector	0.785 gr			
2mm HD LC Simplex Connector	1.745 gr			



ORDERING MATRIX

FIBER OPTIC PATCH CORD


***Standard colors:**

Yellow - 9/125 SM G652.D & G657.A1
 Blue - 9/125 SM G657.A2
 Orange - 62.5/125 MM OM1 & OM2
 Aqua - 50/125 MM OM3 & OM4
 Lime - 50/125 MM OM5

Other colors are available upon request. MOQ & lead times may apply.

** The APC Multi-Mode optical assembly is manufactured by special request because it is an unusual configuration. ST & MU connectors unavailable in APC.

*** Special boots only available for 2.0 mm & 3.0 mm cable diameter; for SC, LC & FC connectors in both Simplex and Duplex configurations.

**** 900µm patch cords are only available with RISER jacket.

